

BUYLOG SECTION 9

Disconnect Switches and Operating Mechanisms



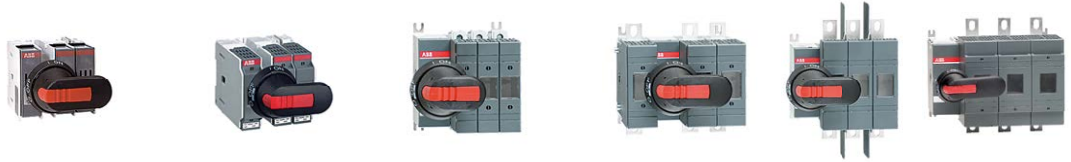


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Fusible disconnect switches 20...1250A

Product range



Switch size [A]	20	25	30	32	40	32	50	60	63	100	125	160	100	200	250
DIN	-				OS40FD	OS32GD				OS125GD			-	OS200D	
	-				-	OS63GD				OS160GD			-	OS250D	
BS	OS20FB				-	OS32GB				OS100GB			-	OS200B	
	OS32FB				-	OS63GB				OS125GB			-	OS250B	
	-				-	-				OS160GB			-	-	
NFC	OS25FF				-	OS50GF				OS125GF			-	-	
	OS32FF				-	-				-			-	-	
UL98 File #E101914	OS30FACC				-	OS60GJ				-			-	-	
	OS30FAJ				-	-				-			OS100GJ		-
AC23/400V [kW]	-	11	-	15	18.5	15	22	-	30	-	55	75	-	110	140
AC23/415V [kW]	7.5	-	-	15	-	15	-	-	30	55	55	75	-	110	145
480 V [HP]	-	-	15	-	-	-	-	30	-	-	-	-	60	-	-
600 V [HP]	-	-	20	-	-	-	-	50	-	-	-	-	75	-	-



Switch size [A]	200	315	400	600	630	800	1200	1250
DIN	-		OS400D	OS630D		OS1250D		
	-		-	OS800D		-		
BS	-		OS315B	OS630B		OS1250B		
	-		OS400B	OS800B		-		
UL98 File# E101914	OS200J		OS400J	OS600J		OS1200L		
	-		-	OS800L		-		
AC23/400V [kW]	-	-	230	-	355	450	-	560
AC23/415V [kW]	-	180	230	-	355	450	-	560
480 V [HP]	150	-	250	400	-	500	-	-
600 V [HP]	200	-	250	500	-	600	-	-

Please note that accessories are not automatically included in your order. See available accessories ordering information from pages 9-16 through 9-43.

Fusible disconnect switches 20...40A (OS Mini)

Type designation key

Type codes

Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

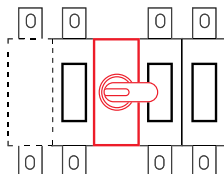
Explanation of the types OS20...40A

	OS	25F	F		22	10	N1	-2
	1	2	3	4	5	6	7	8
Brand	OS = ABB switch fuse/fusible switch							
Switch size/Ampere rating	20...40F = Mini, 20...40A							
Fuse type	D = DIN							
	B = BS							
	F = NFC							
	AJ = J							
	ACC = CC							
Switch operation	Blank = Front operation							
	S = Side operation							
Number of poles and placing of the operating mechanism	12 = 3 poles, operating mechanism between the poles							
	22 = 4 poles, operating mechanism between the poles							
	30 = 3 poles, operating mechanism at the right end of the switch							
Included handle	Blank = No handle included, OSFAJ_ and OS30FACC_							
	Blank = Pistol handle and shaft included with OS40FD_, OS20FB_, OS32FB_, OS25FF_ and OS32FF_							
	P = Pistol handle and shaft included with OSFAJ_ and OS30FACC_							
	-2 = No handle included with OS40FD_, OS20FB_, OS32FB_, OSS25FF_ and OS32FF_							
Fourth pole/neutral terminal	N1 = Non-fused switched neutral on left side							
	F = Fused switched neutral							
	Blank = Terminal not included							
Fuse size	A1, A2 = BS88, A1, A2							
	000 = DIN 000							
	10, 14 = NFC 10x38, 14x51							

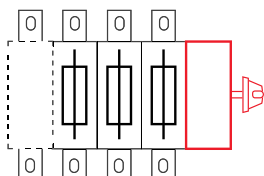
Pole configuration table

The various placing options of the operating mechanism in relation to the 3 or 4 poles is illustrated below. The operating mechanism may be placed at the end of the switch or between poles.

Between the poles OS_12 or 22:



Side operated types OS_30 or 40/OS_03 or 04:



Fusible disconnect switches 32...1250A

Type designation key

Type codes

Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

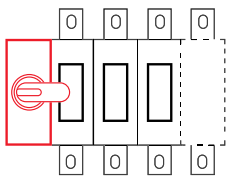
Explanation of the types OS32...1250A

	OS 1	125G 2	D 3	 4	04 5	N2 6	P 8
Brand	OS = ABB switch fuse/fusible switch						
Switch size/Ampere rating	32G...160G = Gamma, 32A...160A 200...1250 = 200A...1250A						
Fuse type	D = DIN B = BS F = NFC J = J L = L						
Switch operation	Blank = Front operation S = Side operation						
						Included handle Blank = No handle included P = Pistol handle and shaft K = Direct mount handle	
						Fourth pole/neutral terminal Blank = Neutral terminal not included N1 = Non-fused switched neutral on the left side N2 = Non-fused switched neutral on the right side N3 = Includes a detachable neutral link integrated into the mechanism F = Fused switch neutral	
						Number of poles and placing of the operating mechanism 03 = 3 poles, operating mechanism at the left end of the switch 04 = 4 poles, operating mechanism at the left end of the switch 12 = 3 poles, operating mechanism between the poles 22 = 4 poles, operating mechanism between the poles 30 = 3 poles, operating mechanism at the right end of the switch 40 = 4 poles, operating mechanism at the right end of the switch	

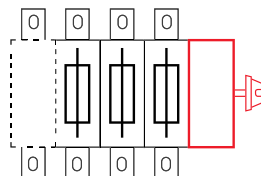
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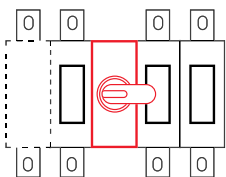
At the end of the switch fuse OS_03 or 04:



Side operated types OS_30 or 40/OS_03 or 04:



Between the poles OS_12 or 22:



Fusible disconnect switches, UL/CSA

Ordering information for CC and J types, 30A



OS30FACC12P

Fusible disconnect switches, CC and J types, 30A

Protected tunnel terminals, IP20, cable size 0.5...10mm², (AWG 18 - 8). Mechanism at the end of the switch. The handle is NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

F = OS Mini range switch fuse 30 Amperes

F = Switched fusible neutral

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
30	CC, 30A	3	OS30FACC12	1SCA108813R1001
30	CC, 30A	4	OS30FACC22F	1SCA108819R1001
30	J, 30A	3	OS30FAJ12	1SCA108824R1001
30	J, 30A	4	OS30FAJ22F	1SCA108829R1001
With 150 mm shaft and external handle OHB65J6				
30	CC, 30A	3	OS30FACC12P	1SCA108817R1001
30	J, 30A	3	OS30FAJ12P	1SCA108828R1001
30	J, 30A	4	OS30FAJ22FP	1SCA108831R1001

Side operated

Shaft and handle not included				
30	CC, 30A	3	OS30FACCS30	1SCA108822R1001
30	J, 30A	3	OS30FAJS30	1SCA108834R1001

Fusible disconnect switches, UL/CSA

Ordering information for J-type, 60A



OS60GJ03P

Fusible disconnect switches, J type, 60A

Protected tunnel terminals, IP20, cable size 2.5...25mm² (AWG 14 - 4). Mechanism at the end of the switch. The handle is NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

G = OS Gamma range switch fuse 60 Amperes

F = Switched fusible neutral



OS60GJ04FP

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
60	J, 60A	2	OS60GJ02	1SCA121900R1001
60	J, 60A	3	OS60GJ03	1SCA115866R1001
60	J, 60A	4	OS60GJ04F	1SCA115445R1001
With 161 mm shaft and external handle OHB45J6				
60	J, 60A	2	OS60GJ02P	1SCA121901R1001
60	J, 60A	3	OS60GJ03P	1SCA115443R1001
60	J, 60A	4	OS60GJ04FP	1SCA115446R1001
With direct mount handle OSV200BK				
60	J, 60A	2	OS60GJ02K	1SCA121927R1001
60	J, 60A	3	OS60GJ03K	1SCA122100R1001
60	J, 60A	4	OS60GJ04FK	1SCA122098R1001



OS60GJS40F

Side operated

Shaft and handle not included				
60	J, 60A	3	OS60GJS30	1SCA116051R1001
60	J, 60A	4	OS60GJS40F	1SCA115970R1001
With direct mount handle OHB65D6				
60	J, 60A	3	OS60GJS30K	1SCA116426R1001
60	J, 60A	4	OS60GJS40FK	1SCA115941R1001



OS60GJS30K

Fusible disconnect switches, UL/CSA

Ordering information for J-type, 100A



OS100GJ03P



OS100GJ04FP



OS100GJS30

Fusible disconnect switches, J-type, 100A

Included terminal bolt set M8X25. Mechanism at the end of the switch. The handle is NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

G = OS Gamma range switch fuses 100 Amperes

F = Switched fusible neutral

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
100	J, 100A	2	OS100GJ02	1SCA121932R1001
100	J, 100A	3	OS100GJ03	1SCA115436R1001
100	J, 100A	4	OS100GJ04F	1SCA115438R1001
With 161 mm shaft and external handle OHB65J6				
100	J, 100A	2	OS100GJ02P	1SCA121933R1001
100	J, 100A	3	OS100GJ03P	1SCA114639R1001
100	J, 100A	4	OS100GJ04FP	1SCA115439R1001
With direct mount handle OSV200BK				
100	J, 100A	2	OS100GJ02K	1SCA125031R1001
100	J, 100A	3	OS100GJ03K	1SCA121957R1001
100	J, 100A	4	OS100GJ04FK	1SCA122093R1001

Side operated

Shaft and handle not included				
100	J, 100A	3	OS100GJS30	1SCA115971R1001
100	J, 100A	4	OS100GJS40F	1SCA115972R1001
With direct mount handle OHB65D6				
100	J, 100A	3	OS100GJS30K	1SCA115942R1001
100	J, 100A	4	OS100GJS40FK	1SCA115943R1001

Fusible disconnect switches, UL/CSA

Ordering information for J-type, 200A



OS200J02P



OS200J02P



OS200J04FP



OS200J02K



OS200J03K

Fusible disconnect switches, J-type, 200A

Included terminal bolt set M8X25. Mechanism at the end of the switch. The handle is NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

F = Switched fusible neutral

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
200	J, 200A	2	OS200J02	1SCA107591R1001
200	J, 200A	3	OS200J03	1SCA022733R6130
200	J, 200A	4	OS200J04F	1SCA022758R9340
With 210 mm shaft and external handle OHB65J6				
200	J, 200A	2	OS200J02P	1SCA107598R1001
200	J, 200A	3	OS200J03P	1SCA022709R9760
200	J, 200A	4	OS200J04FP	1SCA022758R9770
With direct mount handle OSV200BK				
200	J, 200A	3	OS200J03K	1SCA022763R5800

Side operated

Shaft and handle not included				
200	J, 200A	3	OS200JS30	1SCA022871R3910
200	J, 200A	4	OS200JS40F	1SCA022871R4120
With direct mount handle OHB65D6				
200	J, 200A	3	OS200JS30K	1SCA022871R4040
200	J, 200A	4	OS200JS40FK	1SCA022871R4210

Fusible disconnect switches, UL/CSA

Ordering information for J-type, 400A



OS400J03P



OS400J04FP



OS400J02P



OS400J04FP



OS400J03K



OS400J03P



OS400JS40FK

Fusible disconnect switches, J-type, 400A

Included terminal bolt set M10X40. Mechanism at the end of the switch. The handle is NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

F = Switched fusible neutral

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
400	J, 400A	2	OS400J02	1SCA107592R1001
400	J, 400A	3	OS400J03	1SCA022755R0810
400	J, 400A	4	OS400J04F	1SCA022755R3660
With 250 mm shaft and external handle OHB95J12				
400	J, 400A	2	OS400J02P	1SCA107596R1001
400	J, 400A	3	OS400J03P	1SCA022719R1140
400	J, 400A	4	OS400J04FP	1SCA022755R3740
With direct mount handle OSV200BK				
400	J, 400A	3	OS400J03K	1SCA117773R1001

Side operated

Shaft and handle not included				
400	J, 400A	3	OS400JS30	1SCA022871R4980
400	J, 400A	4	OS400JS40F	1SCA022871R5100
With direct mount handle OHB95D12				
400	J, 400A	3	OS400JS30K	1SCA022871R5010
400	J, 400A	4	OS400JS40FK	1SCA022871R5280

Fusible disconnect switches, UL/CSA

Ordering information for J-type, 600A



OS600J02P



OS600J03P



OS600J03P



OS600J04FP



OS600JS30K

Fusible disconnect switches, J-type, 600A

Included terminal bolt set M8X25. Mechanism at the end of the switch. The handle is NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

F = Switched fusible neutral

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
600	J, 600A	2	OS600J02	1SCA107593R1001
600	J, 600A	3	OS600J03	1SCA022825R8610
600	J, 600A	4	OS600J04F	1SCA022839R3900
With 280 mm shaft and external handle OHB145J12				
600	J, 600A	2	OS600J02P	1SCA107595R1001
600	J, 600A	3	OS600J03P	1SCA022825R8870
600	J, 600A	4	OS600J04FP	1SCA022839R4030
With direct mount handle OSV200BK				
600	J, 600A	3	OS600J03K	1SCA117774R1001

Side operated

Shaft and handle not included				
600	J, 600A	3	OS600JS30	1SCA108111R1001
600	J, 600A	4	OS600JS40F	1SCA108113R1001
With direct mount handle OHB95D12				
600	J, 600A	3	OS600JS30K	1SCA108112R1001
600	J, 600A	4	OS600JS40FK	1SCA108114R1001

Fusible disconnect switches, UL/CSA

Ordering information for L-type, 800...1200A



OS800L04FP

Fusible disconnect switches, L-type, 800...1200A

Included terminal bolt set OS800: M10X40, OS1200: M10X50. Mechanism at the end of the switch. The handle is NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

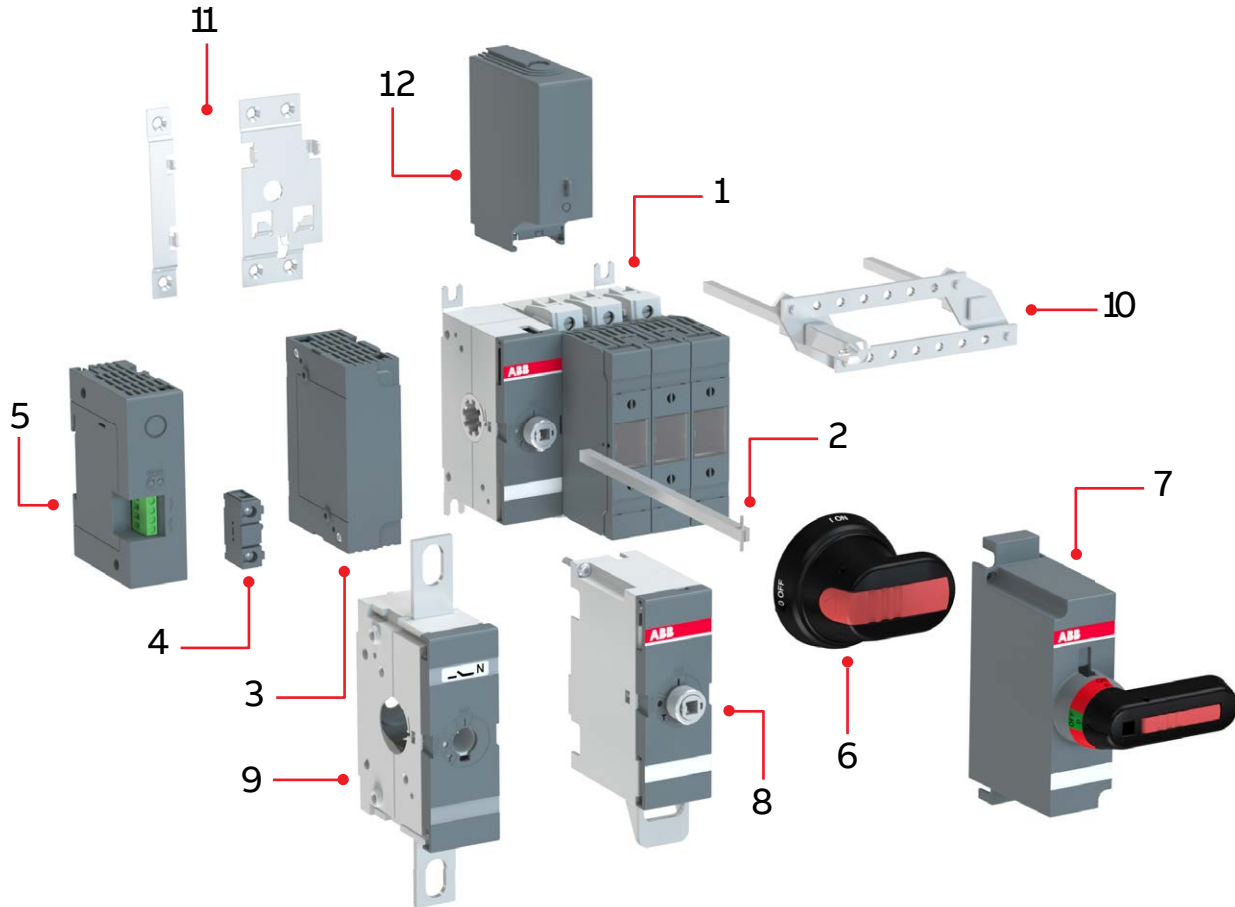
F = Switched fusible neutral

Front operated

Rated current [A]	Fuse size	Number of poles	Type	Order number
Shaft and handle not included				
800	L, 800A	2	OS800L02	1SCA116920R1001
800	L, 800A	3	OS800L03	1SCA022825R9760
800	L, 800A	4	OS800L04F	1SCA022839R5350
1200	L, 1200A	2	OS1200L02	1SCA116924R1001
1200	L, 1200A	3	OS1200L03	1SCA105467R1001
1200	L, 1200A	4	OS1200L04F	1SCA105465R1001
With 280mm shaft and external handle OHB145J12				
800	L, 800A	2	OS800L02P	1SCA116921R1001
800	L, 800A	3	OS800L03P	1SCA022825R9920
800	L, 800A	4	OS800L04FP	1SCA022839R5430
With 395mm shaft and external handle OHB274J12				
1200	L, 1200A	2	OS1200L02P	1SCA116925R1001
1200	L, 1200A	3	OS1200L03P	1SCA105468R1001
1200	L, 1200A	4	OS1200L04FP	1SCA105466R1001

Fusible disconnect switches 32...63

Selection overview



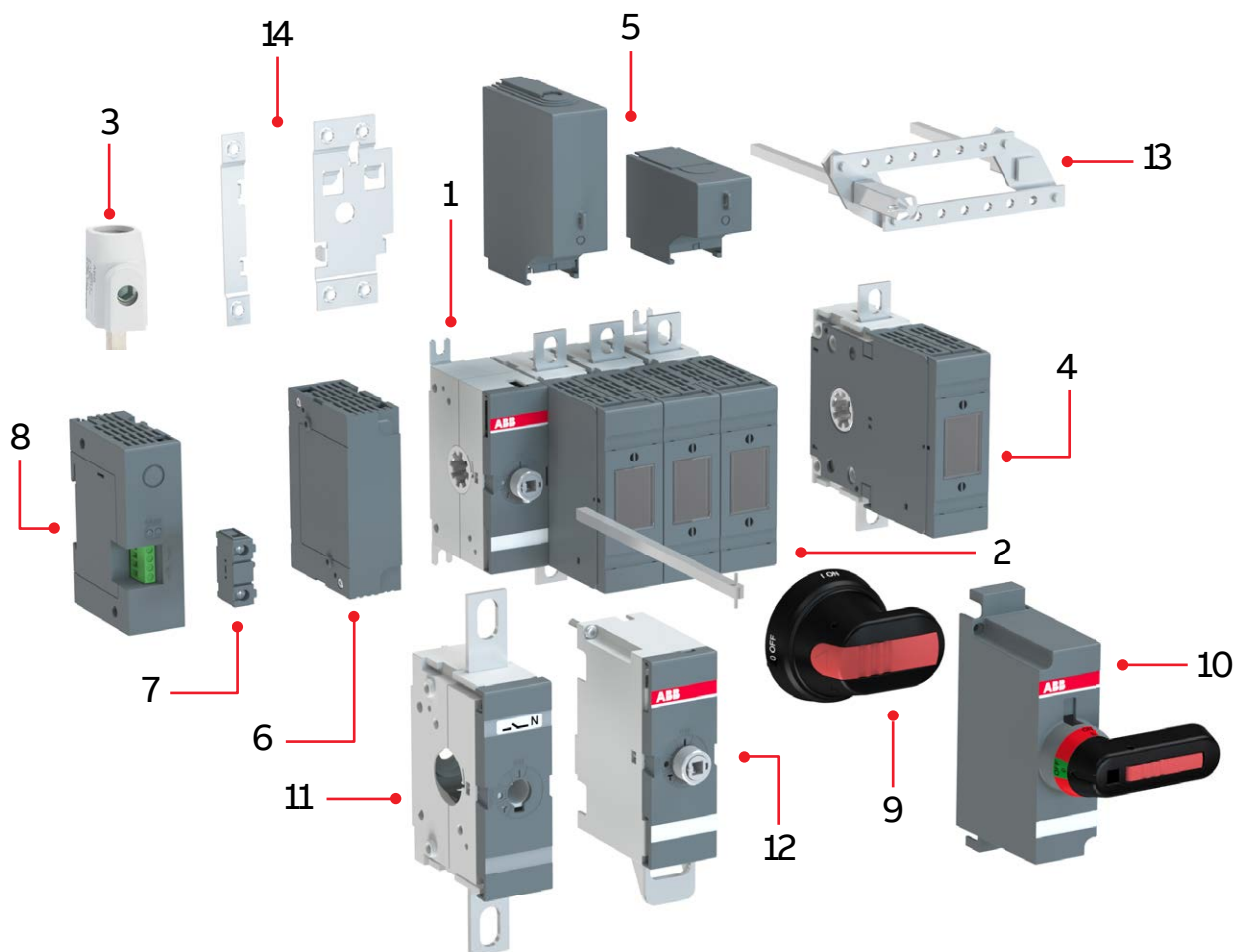
Accessory guide for OS32G...OS63G

- | | |
|----------------------------------|----------------------------|
| 1. Switch fuse | 7. Direct mounted handle |
| 2. Shaft | 8. Electrical interlock |
| 3. Module for auxiliary contacts | 9. Detachable neutral link |
| 4. Auxiliary contact | 10. Conversion kit |
| 5. Fuse monitor | 11. DIN rail mounting kit |
| 6. Pistol type handle | 12. Terminal shroud |

Please note that listed accessories are not automatically included in your order.
Ordering information for accessories from pages 9-16 through 9-43.

Fusible disconnect switches 100...1250

Selection overview



Accessory guide for OS100...1250

- | | |
|---------------------------------|-----------------------------|
| 1. Switch fuse | 8. Fuse monitor |
| 2. Shaft | 9. Pistol handle |
| 3. Terminal clamp | 10. Direct mount handle |
| 4. Fourth pole | 11. Detachable neutral link |
| 5. Terminal shroud | 12. Electrical interlock |
| 6. Module for auxiliary contact | 13. Conversion kit |
| 7. Auxiliary contact | 14. DIN rail mounting kit |

Please note that listed accessories are not automatically included in your order.
Ordering information for accessories from pages 9-16 through 9-43.

Accessories for fusible disconnect switches 32...1250A

Ordering information for handles



OH B65J6

Pistol handles for front operated switch fuses

Plastic pistol handles, IP 65, NEMA type 1, 3R, 12

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.



OH Y65J6

For shaft diameter 6mm (for OSMini and OS32...250)

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF, grey: I-O				
Black	45	OH B45J6	1SCA022380R8770	0.12
Red-yellow	45	OH Y45J6	1SCA022380R8930	0.12
Grey	45	OH G45J6	1SCA022380R8850	0.12
Black	65	OH B65J6	1SCA022380R9660	0.12
Red-yellow	65	OH Y65J6	1SCA022380R9820	0.12
Grey	65	OH G65J6	1SCA022380R9740	0.12
Black	80	OH B80J6	1SCA022381R0240	0.14



OH G65J6

Black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O

Black	45	OH B45J6T	1SCA109870R1001	0.12
Black	65	OH B65J6T	1SCA022399R8110	0.12
Red-yellow	65	OH Y65J6T	1SCA022456R9540	0.12
Grey	65	OH G65J6T	1SCA022456R9620	0.12
Black	80	OH B80J6T	1SCA022399R8290	0.14



OH B95J12

For shaft diameter 12mm (for OS315...400)

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF, grey: I-O				
Black	95	OH B95J12	1SCA022381R0830	0.16
Red-yellow	95	OH Y95J12	1SCA022381R1050	0.16
Grey	95	OH G95J12	1SCA022381R0910	0.16



OH Y95J12T

Indication: Test-OFF-ON/Test-O-I

Black	95	OH B95J12T	1SCA022736R1750	0.16
Red-yellow	95	OH Y95J12T	1SCA022736R1910	0.16



OH B125J12

For shaft diameter 12mm (for OS630...800)

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF, grey: I-O				
Black	125	OH B125J12	1SCA022381R1560	0.16
Red-yellow	125	OH Y125J12	1SCA022381R1720	0.16
Grey	125	OH G125J12	1SCA022381R1640	0.16
Black	145	OH B145J12	1SCA022381R2110	0.17
Red-yellow	145	OH Y145J12	1SCA022381R2370	0.17
Grey	145	OH G145J12	1SCA022381R2290	0.17
Black	175	OH B175J12	1SCA022381R2450	0.18
Red-yellow	175	OH Y175J12	1SCA022381R2700	0.18
Grey	175	OH G175J12	1SCA022381R2610	0.18

Indication: Test-OFF-ON/Test-O-I

Black	125	OH B125J12T	1SCA022652R2220	0.16
Red-yellow	125	OH Y125J12T	1SCA022652R2310	0.16
Black	145	OH B145J12T	1SCA022652R2570	0.17
Red-yellow	145	OH Y145J12T	1SCA022652R2650	0.17
Black	175	OH B175J12T	1SCA022708R0740	0.18

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.

Handles padlockable in all positions and NEMA 4/4X handles are available on request.

Accessories for fusible disconnect switches 32...1250A

Ordering information for handles



OHB274/330J12

Pistol handles for front operated switch fuses

Plastic pistol handles, IP 65, NEMA type 1, 3R, 12

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.



OHY274J12

For shaft diameter 12mm (for OS1200...1250)

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF.				
Black	274	OHB274J12	1SCA115920R1001	0.54
Red-yellow	274	OHY274J12	1SCA115919R1001	0.54
Black	330	OHB330J12	1SCA115922R1001	0.58
Red-yellow	330	OHY330J12	1SCA115921R1001	0.58
Black	2x150	OHB150J12P	1SCA022865R9430	0.17
Red-yellow	2x150	OHY150J12P	1SCA101586R1001	0.17
Black	2x200	OHB200J12P	1SCA022865R9510	0.40
Red-yellow	2x200	OHY200J12P	1SCA101587R1001	0.40

Indication: Test-OFF-ON/Test-O-I

Black	274	OHB274J12T	1SCA120250R1001	0.54
Black	330	OHB330J12T	1SCA120252R1001	0.58
Black	2x200	OHB200J12PT	1SCA106510R1001	0.40
Red-yellow	2x200	OHY200J12PT	1SCA111512R1001	0.40

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.

Handles padlockable in all positions and NEMA 4/4X handles are available on request.



OHM_

Stainless steel pistol handles, IP66, NEMA 4X

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position, indication: I-O/ON-OFF

For shaft diameter 6mm (for OSMini and OS32...250)

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Metallic	45	OHM45L6	1SCA111295R1001	0.70
Metallic	65	OHM65L6	1SCA022739R1070	0.73

For shaft diameter 12mm

Metallic	125	OHM125L12	1SCA022739R1150	0.76
Metallic	175	OHM175L12	1SCA022739R1230	0.83
Metallic	275	OHM275L12	1SCA022832R4840	0.96

Accessories for fusible disconnect switches 32...1250A

Ordering information for handles



OHB65J6E00S



OHY65J6E00S



OHZX14

Pistol handles for side operated switch fuses

Plastic pistol handles, IP 65, NEMA type 1, 3R, 12

For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position, IP 65. The position indications are rotated 90°. If the handle is mounted on the front of the door, a standard handle can be used as well.

For shaft diameter 6mm

Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Plastic handles, black and red-yellow: I-O/ON-OFF, grey: I-O.				
Black	65	OHB65J6E00S	1SCA022382R9850	0.12
Red-yellow	65	OHY65J6E00S	1SCA022382R9930	0.12
Grey	65	OHG65J6E00S	1SCA022383R4510	0.12
Plastic handles, black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O.				
Black	65	OHB65J6TE00S	1SCA109016R1001	0.12
Red-yellow	65	OHY65J6TE00S	1SCA022688R0140	0.12
Grey	65	OHG65J6TE00S	1SCA109014R1001	0.12

For shaft diameter 12mm

Plastic handles, indication I-O/ON-OFF				
Color	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black	145	OHB145J12E00S	1SCA022679R9700	0.17

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.
Handles padlockable in all positions are available on request.

Extension ring for pistol handles

Suitable for handles	Color	Type	Order number	Weight/unit [kg]
OHB_	Black	OHZX14	1SCA022851R6590	0.06

Accessories for fusible disconnect switches 32...1250A

Ordering information for handles



OSV250DK



OSV400DK



OSV1250DK



OHB4



OFAE506

Direct mount handles for front operated switch fuses

Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for OS 32G...1250

Suitable for switches	Color	Type	Order number	Weight/unit [kg]
Indication: Test OFF-ON/Test O-I indication Padlockable with three padlocks in the OFF-position, optionally also in the ON-position. Includes shaft and mechanism cover.				
OS32G...160G, OS200J	Black	OSV200BK	1SCA022779R7530	0.14
OS200B/J_K	Red-yellow	OSVY200BK	1SCA022779R7700	0.14
OS200D...250D/B_K	Black	OSV250DK	1SCA022763R3510	0.16
OS200D...250D/B_K	Red-yellow	OSVY250DK	1SCA022778R6500	0.16
OS400D_K	Black	OSV400DK	1SCA022763R4230	0.34
OS400D_K	Red-yellow	OSVY400DK	1SCA022779R5590	0.34
OS315...400B/J_K	Black	OSV400BK	1SCA022763R3930	0.33
OS315...400B/J_K	Red-yellow	OSVY400BK	1SCA022779R5830	0.33
OS600...800_K	Black	OSV800DK	1SCA107794R1001	1.1
OS600...800_K	Red-yellow	OSVY800DK	1SCA108703R1001	1.1
OS1200...OS1250_K	Black	OSV1250DK	1SCA107797R1001	1.5
OS1200...OS1250_K	Red-yellow	OSVY1250DK	1SCA108702R1001	1.5

Direct mount handles for side operated switch fuses

Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for OS Mini

Padlockable with three padlocks in the OFF- position when the door is open. Max. bail dia 6mm.				
OS20F...40F_	Color	Type	Order number	Weight/unit [kg]
OS20F...40F_	Black	OHB4	1SCA022439R4050	0.05

Fuse replacement handles



For DIN-fuse sizes	Type	Order number	Weights/unit [kg]
000, 00, 0, 1, 2, 3, 4	OFAE506	1SCA128175R1001	0.2

Accessories for fusible disconnect switches OS Mini 20...40A

Ordering information for shafts



Extended shafts

Shaft length [mm]	 Front operated H [mm]	 Side operated H [mm]	Type	Order number	Weight/unit [kg]
For OS 16...35 (Mini)², shaft diameter 6mm					
150	135...210	154...166	OSP6X150 ⁵	1SCA022295R5600	0.05
170	155...230	174...186	OSP6X170	1SCA108224R1001	0.05
265	250...325	269...281	OSP6X265	1SCA108225R1001	0.08
400	385...460	404...416	OSP6X400	1SCA108226R1001	0.12
150	135...210	154...166	OSP6X150-45 ¹	1SCA022294R4400	0.05
170	155...230	174...186	OSP6X170-45 ¹	1SCA108227R1001	0.05
265	380...460	269...281	OSP6X265-45 ¹	1SCA108228R1001	0.08
400	380...460	404...416	OSP6X400-45 ¹	1SCA108229R1001	0.12
For OS 40 (Mini)², shaft diameter 6mm					
150	135...210	235...243	OSP6X150 ⁵	1SCA022295R5600	0.05
170	155...230	255...363	OSP6X170	1SCA108224R1001	0.05
265	250...325	352...360	OSP6X265	1SCA108225R1001	0.08
400	385...460	487...495	OSP6X400	1SCA108226R1001	0.12
150	135...210	235...243	OSP6X150-45 ¹	1SCA022294R4400	0.05
170	155...230	255...363	OSP6X170-45 ¹	1SCA108227R1001	0.05
265	250...325	352...360	OSP6X265-45 ¹	1SCA108228R1001	0.08
400	385...460	487...495	OSP6X400-45 ¹	1SCA108229R1001	0.12
For OS 32G...63G⁴, shaft diameter 6mm					
63	-	161...167	OSP6X63	1SCA111010R1001	0.02
90	-	188...194	OSP6X90	1SCA022064R1180	0.03
130	127...174 ⁶	228...234	OSP6X130	1SCA022057R0570	0.04
161	138...205	-	OSP6X161 ³	1SCA022067R1760	0.05
210	187...254	-	OSP6X210	1SCA022295R6080	0.06
290	267...334	-	OSP6X290	1SCA022042R6370	0.08
360	337...404	-	OSP6X360	1SCA022042R6530	0.10
430	407...474	-	OSP6X430	1SCA022056R6030	0.12
210	187...254	-	OSP6X210-45 ¹	1SCA022294R4230	0.06
290	267...334	-	OSP6X290-45 ¹	1SCA022304R4290	0.08
360	337...404	-	OSP6X360-45 ¹	1SCA022341R4640	0.10

¹The shaft position is rotated 45 degrees.

²Side operated, 4-pole: add 36mm.

³Included as standard in P-types.

⁴Side operated 3-pole OS60GJ: add 33mm, 4-pole types: OS32...63GD/GB: add 23.5mm, OS60GJ: add 68mm.

⁵Included as standard in front operated types.

⁶OS32...63GB/GF: 115...174.

Accessories for fusible disconnect switches 32...1250A

Ordering information for shafts



OXP6X_



OXP_X_-45



OHP12X_

Extended shafts

Shaft length [mm]	H [mm]		Type	Order number	Weight/unit [kg]
	Front operated	Side operated			
For OS100G...160G², shaft diameter 6mm					
63	-	161...167	EXP6X63	1SCA111010R1001	0.02
90	-	188...194	EXP6X90	1SCA022064R1180	0.03
130	127...174 ⁴	228...234	EXP6X130	1SCA022057R0570	0.04
161	138...205	-	EXP6X161 ³	1SCA022067R1760	0.05
210	187...254	-	EXP6X210	1SCA022295R6080	0.06
290	267...334	-	EXP6X290	1SCA022042R6370	0.08
360	337...404	-	EXP6X360	1SCA022042R6530	0.10
430	407...474	-	EXP6X430	1SCA022056R6030	0.12
210	187...254	-	EXP6X210-45 ¹	1SCA022294R4230	0.06
290	267...334	-	EXP6X290-45 ¹	1SCA022304R4290	0.08
360	337...404	-	EXP6X360-45 ¹	1SCA022341R4640	0.10
For OS 200...250 DIN-type, shaft diameter 6mm					
161	160...205	321...327	EXP6X161	1SCA022067R1760	0.05
210	189...254	370...376	EXP6X210 ³	1SCA022295R6080	0.06
290	269...334	-	EXP6X290	1SCA022042R6370	0.08
For OS 200...250 BS-type, shaft diameter 6mm					
161	140...205	321...327	EXP6X161	1SCA022067R1760	0.05
210	189...254	370...376	EXP6X210 ³	1SCA022295R6080	0.06
290	269...334	-	EXP6X290	1SCA022042R6370	0.08
For OS 315...400, shaft diameter 12mm					
250	230...325	489...495	EXP12X250 ³	1SCA022325R6980	0.30
280	260...355	519...525	EXP12X280	1SCA022137R5140	0.30
325	305...400	-	EXP12X325	1SCA022042R5810	0.36
395	375...470	-	EXP12X395	1SCA022042R5990	0.43
465	445...540	-	EXP12X465	1SCA022042R6020	0.51
535	515...610	-	EXP12X535	1SCA022042R6110	0.59

¹The shaft position is rotated 45 degrees.

²Side operated, 4-pole: add 35 mm.

³Included as standard in P-types.

⁴OS100GJ: 113...174, OS100GB...160GB: 121...174.

Accessories for fusible disconnect switches 32...1250A

Ordering information for shafts



OXP12X_





OXP12X250-45



OETLZX95

Extended shafts

Shaft length [mm]	 Front operated H [mm]	 Side operated H [mm]	Type	Order number	Weight/unit [kg]
For OS 630...800, shaft diameter 12mm					
280	258...382	645...651	OXP12X280 ²	1SCA022137R5140	0.30
325	303...427	-	OXP12X325	1SCA022042R5810	0.40
395	373...497	-	OXP12X395	1SCA022042R5990	0.50
465	443...567	-	OXP12X465	1SCA022042R6020	0.60
535	513...637	-	OXP12X535	1SCA022042R6110	0.70
280	258...382	-	OXP12X280-45 ¹	1SCA022382R0800	0.30
325	303...427	-	OXP12X325-45 ¹	1SCA022304R4450	0.40
For OS 1200...1250, shaft diameter 12mm					
395	366...495 ³	371...500 ⁴	OXP12X395 ²	1SCA022042R5990	0.43
465	436...565 ³	441...570 ⁴	OXP12X465	1SCA022042R6020	0.51
535	506...635 ³	441...571 ⁴	OXP12X535	1SCA022042R6110	0.59

¹The shaft position is rotated 45 degrees.

²Included as standard in front operated P-types.

³H with handle OH_274/330J12.

⁴H with handle OHB150/200J12P.

Shaft extension socket

For extending the shaft of combination attachment.

Suitable for shaft with diameter [mm]	Type	Order number	Weight/unit [kg]
12	OETLZX95	1SCA022083R5620	0.04

Accessories for fusible disconnect switches OS Mini 20...40A

Ordering information for auxiliary contacts



OA4B10



MCB-10



OA3G01



OSZ4



OESAZX169

Auxiliary contacts for OS20F_...40F_ (OS Mini)

Units/type = 1 piece

Mounting to the switch mechanism

Description	Type	Order number	Weight/unit [kg]
Change over contacts			
Auxiliary/test contacts. Max. two change over contacts.			
See function chart below	OA4B1C	1SCA022193R0150	0.03
Single pole contacts			
> 3mm contact gap			
1 NO	OA4B10	1SCA022276R9050	0.03
1 NC	OA4B01	1SCA022276R9210	0.03

Mounting on the side of the switch

Description	Type	Order number	Weight/unit [kg]
Mounting on the side of the switch with aux. contact frame OESAZX169			
1NO	MCB-10	1SCA022150R5110	0.03
1NC	MCB-01	1SCA022150R5370	0.03
Snap-on mounting on the switch, by using a frame OSZ4, IP20			
NO contacts are provided with a positive opening feature.			
Types _AU have gold plated contacts for harsh environments and low operating voltages.			
1 NO	OA1G10	1SCA022353R4970	0.03
1 NC	OA3G01	1SCA022456R7410	0.03
1 NO	OA1G10AU	1SCA022436R7910	0.03
1 NC	OA3G01AU	1SCA022819R5260	0.03

Mounting frames for auxiliary contacts of OS20F_...40F_ (OS Mini)

Description	Amount of auxiliary contacts [pcs]	Type	Order number	Weight/unit [kg]
Frame for auxiliary contacts OA1G10 and OA3G01 and for fuse monitor OFM_				
Mounting on the left side of the switch	max. 6	OSZ4	1SCA022530R0200	0.06
Frame for MCB-_ auxiliary contacts. Not suitable for side operated switches				
Mounting on the right side of the switch	max. 6	OESAZX169	1SCA022196R9360	0.06

Function chart, change over contacts OA4B1C/OS Mini

Handle position	Main contacts	Aux./Test contacts N.O.
Test	open	closed
0	open	open
I	closed	closed

Accessories for fusible disconnect switches 32...1250A

Ordering information for auxiliary contacts



OA1G10, OA3G01

Auxiliary contact blocks for OS/OSM32G...1250

Suitable for switches	Description	Protection degree	Type	Order number	Weight/unit [kg]
OS/OSM32G...1250	1NO	IP20	OA1G10	1SCA022353R4970	0.03
OS/OSM32G...1250	1NC	IP20	OA3G01	1SCA022456R7410	0.03
OS/OSM32G...1250	1NO	IP20	OA1G10AU ¹	1SCA022436R7910	0.03
OS/OSM32G...1250	1NC	IP20	OA3G01AU ¹	1SCA022819R5260	0.03

¹Types _AU have gold plated contacts for harsh environments and low operating voltages.

Mounting under the mechanism cover

The “test” contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST-position = 45 degrees over the OFF-position. The “test indication” contacts operate only when the handle is turned to TEST-position. See the function table below. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, “test” or “test indication” contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place shown in the mounting instruction. In order to activate the “test” and “test indication” features, a handle with test function is required. See the optional handles, pages 9-18 through 9-22.

Function table of OS/OSM32G...1250 auxiliary contacts

Handle position	Main contacts	Aux./Test contacts N.O.	Test indication contacts N.O.
Test	open	closed	closed
0	open	open	open
I	closed	closed	open

Maximum number of contact blocks, “Aux./test” contacts and “test indication” contacts, see the table below. Standard versions include all except for N3-types, which are equipped with integrated neutral through the mechanism.

Maximum number of auxiliary contacts under the mechanism cover

	OS/OSM32G...250		OS/OSM315...800		OS/OSM1200...1250	
	Standard	N3	Standard	N3	Standard	N3
Maximum number of contact blocks	4	0	8	4	12	8
Aux./Test contacts	4	0	4	2	8 ¹	6 ²
Test indication contacts	2	0	4	2	4	2

For contact timing, see page 9-26.

¹6 aux./test contacts and 2 early operation aux./test contacts.

²4 aux./test contacts and 2 early operation aux./test contacts.

Mounting on the left side of the OS switch fuse:

Maximum 8 auxiliary contact blocks (N.O. or N.C.) with the OEA28 module. Side operated types: OS_S30..._S40 types only.

Mounting on the right side of the OSM motorized switch fuse:

Maximum 4 auxiliary contact blocks (N.O. or N.C.), snap-on mounting

Mounting plate for auxiliary contacts

Mount on the switch mechanism, max. 3 auxiliary contacts.

Suitable for switches	Type	Order number
R: Mounting on the right side of the switch		
L: mounting on the left side of the switch		
OS100G_...200G_	OEA30R	1SCA131817R1001
OS100G_...200G_	OEA30L	1SCA131816R1001

Accessories for fusible disconnect switches 32...1250A

Technical information for auxiliary contacts



OEA28

Module for auxiliary contacts for OS32...1250

Description	Type	Order number	Weight/unit [kg]
Screw mounting to the left side of the switch	OEA28	1SCA022714R8810	0.04

Performance data for auxiliary contacts according to IEC 60947-5-1

OA1G_, OA3G_	
U_i /[V]	690
U_{imp} /[kV]	4
Pollution degree	3
I_{th} /[A]	16
Cable size	1...2 x 0,75...2.5m ²
Maximum fuse	16 A/gG
NEMA	A600,R300
Wire size	18 - 14AWG, 1 (2)

OA1G_, OA3G_						
AC15		DC12			DC13	
U_e /[V]	I_e /[A]	U_e /[V]	I_e /[A]	P/[W]	I_e /[A]	P/[W]
230	6	24	10	240	2	48
400	4	72	4	288	0.8	58
690	2	125	2	250	0.55	69
-	-	250	0.55	138	0.27	68
-	-	440	0.1	44	-	-

OA4_	
EN61058-1	
U_i /[V]	400
I_{th} /[A]	10
I_g	400V AC
	10 (4) A, 10E3
	6 (2,5) A, 50E3
NEMA	10 A, 125-250V AC, 1/4 HP
M3 Screw connection	

MCB_				
IEC60947-5-1				
U_i /[V]	690			
I_{th} /[A]	10			
-	-	AC12	AC15	DC13
I_e /[A]	24V	10	8	5
	110V	10	8	11
	220/240V	10	6	0.55
	250V	-	4	0.55
	380/415V	-	4	-
	660/690V	-	2	-
NEMA	A600, 10A, 600VAC	-	-	-

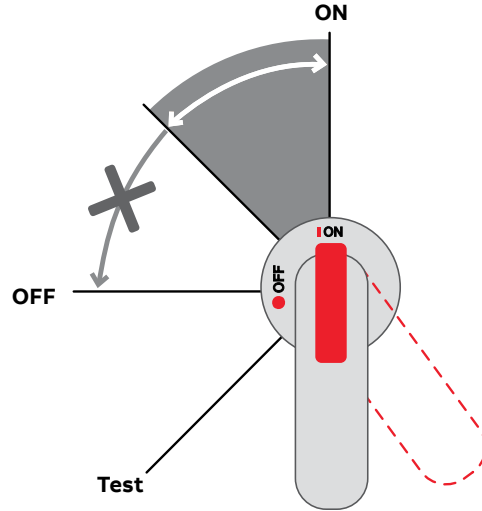
Accessories for fusible disconnect switches OS Mini 20...40A

Technical information for auxiliary contacts

Handle indications and functions

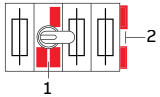
The handle indicates the position of the contacts with complete reliability in all situations. If the contacts are welded together, the handle doesn't reach the OFF-position but remains between ON and OFF, maintaining the door interlock and padlocking is not possible to do.

When operating the switch fuse to the Test-position with a test handle the test auxiliary contacts change position. The main contacts remain open.

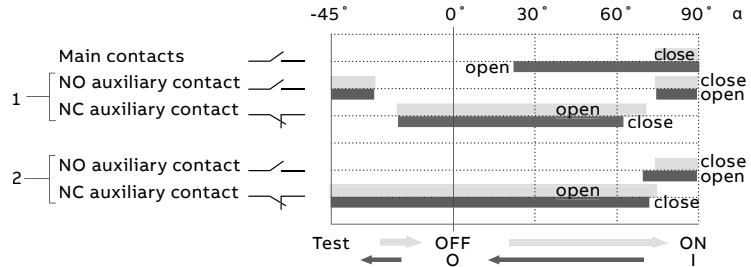


ON and OFF-functions of main and auxiliary contacts

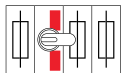
Example



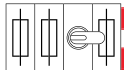
Places of auxiliary contacts and Test ind.



OS Mini

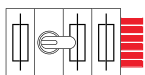
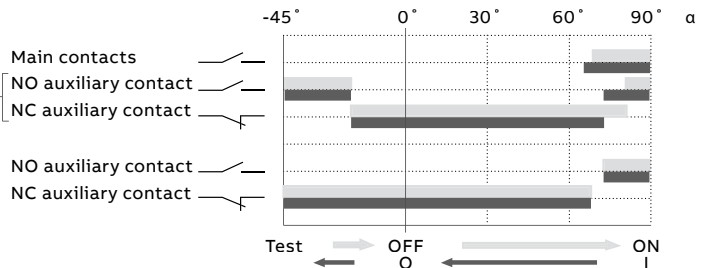


OA4B1C, 1 NO-NC

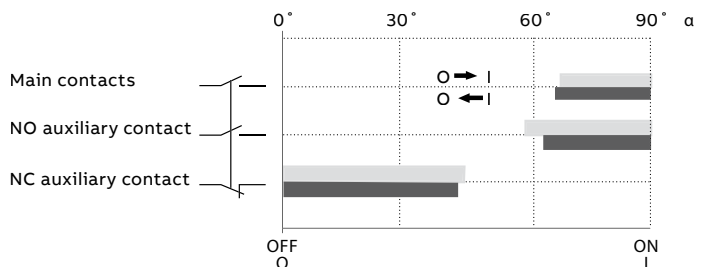


OA1G10, 1NO
OA3G01, 1NC

Change over contacts



MCB-10 + OESAZX169, 1NO
MCB-01 + OESAZX169, 1NC

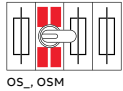


Accessories for fusible disconnect switches 32...1250A

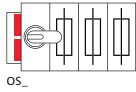
Technical information for auxiliary contacts

ON- and OFF-functions of main and auxiliary contacts

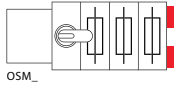
OS/OSM32G...1250



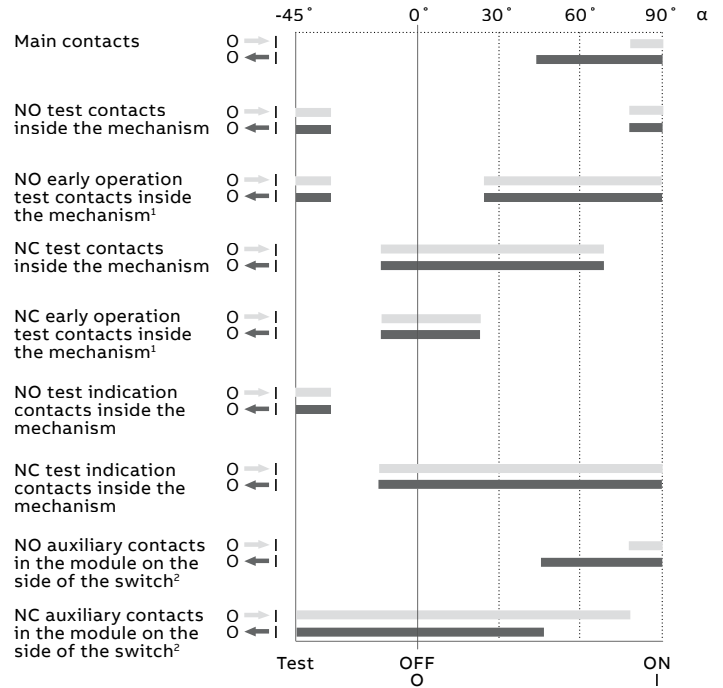
OA1G10, 1NO
OA3G01, 1NC



OA1G10, 1NO
OA3G01, 1NC
+ OEA28



OA1G10, 1NO
OA3G01, 1NC



¹OS/OSM1200...1250 only

²Also OSM32G...1250 mounted on the right side of the switch

Accessories for fusible disconnect switches 32...1250A

Ordering information for fourth poles



OSP200-400D



OSP160GN



OSP250N



OSP800N

Fourth poles

Snap-on mounting to the side of the switch (not suitable for motorized OSM-types).

Suitable for 3-pole switches	Mounting side	Type	Order number	Weight/unit [kg]
Fusible 4 poles				
OS100GB...160GB	Left/right	OSP160GB	1SCA114769R1001	0.45
OS125GD...160GD	Left/right	OSP160GD	1SCA114768R1001	0.45
OS200B	Left/right	OSP200B	1SCA022735R9180	1.20
OS200D	Left/right	OSP200D	1SCA022735R8960	1.20
OS250B	Left/right	OSP250B	1SCA022770R4030	1.20
OS250D	Left/right	OSP250D	1SCA022735R9340	1.20
OS315B...400B	Left/right	OSP400B	1SCA022770R3140	2.00
OS400D	Left/right	OSP400D	1SCA022770R3220	2.00
OS600J	Left/right	OSP600J	1SCA151731R1001	4.20
OS630...800D	Left/right	OSP800D	1SCA100433R1001	4.20
OS630...800B	Left/right	OSP800B	1SCA100434R1001	4.20
OS800L	Left/right	OSP800L	1SCA151732R1001	4.20
OS1250D	Left/right	OSP1250D	1SCA107946R1001	7.20
OS1250DA	Left/right	OSP1250DA	1SCA112402R1001	7.20
OS1250B	Left/right	OSP1250B	1SCA107950R1001	7.20
Switched 4 poles				
OS100G...160G	Left/right	OSP160GN	1SCA114770R1001	0.45
OS200_	Left/right	OSP200N	1SCA022735R8700	1.20
OS250_	Left/right	OSP250N	1SCA022735R9260	1.20
OS400_	Left/right	OSP400N	1SCA022770R3490	1.20
OS630...800	Left/right	OSP800N	1SCA100432R1001	4.40
OS1200...1250	Left/right	OSP1250N	1SCA107943R1001	7.20

Accessories for fusible disconnect switches 20...1250A

Ordering information for neutral links



OSZ1

Neutral links

For OS20F...OS40F

Detachable, mounting onto base plate or DIN-rail

Max. wire	H/W/D [mm]	Mounting holes	Type	Order number	Weight/unit [kg]
16 mm ²	39/41/40	ø 4.2, distance 35	OESAZX171	1SCA022197R2580	0.06



OXN250

For OS/OSM 32G...160G

Detachable, mounting onto the base plate or DIN-rail

Max. wire	H/W/D [mm]	Mounting holes	Type	Order number	Weight/unit [kg]
16 mm ² Cu	39/41/40	ø 4.2, distance 32	OSZ1	1SCA022481R3710	0.06
35 mm ² Cu	39/44/45	ø 4.2, distance 35	OSZ2	1SCA022481R3800	0.07



OXN400

For OS/OSM 100G...1250

Mounting with screws (included) onto either side of the switch (OXN250 to OS200...250) or on the base plate (OXN250...1250) according the table below.

Suitable for switches	Type	Order number	Weight/unit [kg]
Detachable, mounting on the switch			
OS200...250	OXN250	1SCA022752R9950	0.40
Detachable, mounting on the base plate			
OS/OSM32G...250	OXN250	1SCA022752R9950	0.40
OS/OSM315...400	OXN400	1SCA022770R3060	0.70
OS/OSM630...800	OXN800S	1SCA022831R4880	1.20
OS/OSM1250	OXN1250S	1SCA104163R1001	2.50



OXN800S

Accessories for fusible disconnect switches 32...1250A

Ordering information for handle and spare fuse storage clip



OTVS1



OTVS2



PB200 high

Solid links

Suitable for switches	Type	Order number	Weight/unit [kg]
OS32GD...OS160GD	OFAW00	1SCA022003R9680	0.08
OS200...250B, J	OEZNL1	1SCA022723R7400	0.19
OS600J, 800...1200L	OEZNL8	1SCA113998R1001	0.58
OS1250B	OEZNL10	1SCA116437R1001	0.60
OS250 D	OFAW1	1SCA022003R9760	0.15
OS400 D	OFAW2	1SCA022003R9840	0.24
OS630/800 D	OFAW3	1SCA022003R9920	0.28
OS1250 D	OFAW4	1SCA022842R5440	0.665
OS1250 D	OFAW4a	1SCA148430R1001	0.665

Handle and spare fuse storage clip for OSM

Handle and two spare fuses (for motor operator) can be stored on the OTVS_. OTVS_ can be installed on the left side of the motorized switch-fuse OSM_. Snap-on mounting, no tools required. On OSM1250, the size of the handle prevents the installation onto the switch frame. However, the handle clip can be separately installed on the panel frame and the fuse holder clip onto the switch frame.

Suitable for switches	Type	Order number	Weight/unit [kg]
OSM32G...250	OTVS1	1SCA111413R1001	0.02
OSM315...1250	OTVS2	1SCA111414R1001	0.04

Phase barriers

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OS200...400 switch fuses. 3-pole switch fuses need 4 barriers and 4-pole switch fuses need 6 barriers for full protection. Cutting width of the phase barrier 55mm.

Suitable for switches	No. of poles	Height h[mm]	Type	Order number	Units/type [pcs]
OS100G...OS200	3	-	OSB160/4	1SCA131820R1001	4
OS100G...OS200	3	-	OSB160/6	1SCA131821R1001	6
OS250	3	-	OSB250/4	1SCA131822R1001	4
OS250	4	-	OSB250/6	1SCA131823R1001	6
OS315, OS400	3	200	PB200 high	1SDA054972R1	4
OS315, OS400	4	200	PB200 high	1SDA054973R1	6

Accessories for fusible disconnect switches 32...1250A

Ordering information for terminal shrouds



OSS200G1L



OSS200G1S



OSS250G1L



OSS800G1L



OSS800G1S



OSS250G1SH

Terminal shrouds

Suitable for switches	Description	Type	Order number	Units/type [pcs]	Weight/unit [kg]
Pack of single pole terminal shrouds					
Snap-on mounting, grey plastic, IP 3X from front. Transparent shrouds available on request.					
OS/OSM100G...160G, OS200GB	Long type	OSS160GG1L/3	1SCA114764R1001	3	0.08
OS/OSM100G...160G, OS200GB	Short type	OSS160GG1S/3	1SCA114766R1001	3	0.05
OS/OSM100G...160G, OS200GB	Long type	OSS160GG1L/4	1SCA114765R1001	4	0.11
OS/OSM100G...160G, OS200GB	Short type	OSS160GG1S/4	1SCA114767R1001	4	0.07
OS/OSM200	Long type	OSS200G1L/3	1SCA022731R8910	3	0.09
OS/OSM200	Short type	OSS200G1S/3	1SCA022732R0130	3	0.06
OS/OSM200	Long type	OSS200G1L/4	1SCA022731R9040	4	0.12
OS/OSM200	Short type	OSS200G1S/4	1SCA022732R0050	4	0.08
OS/OSM250	Long type	OSS250G1L/3	1SCA022731R9390	3	0.09
OS/OSM250	Short type	OSS250G1S/3	1SCA022731R9550	3	0.06
OS/OSM250	Long type	OSS250G1L/4	1SCA022731R9470	4	0.12
OS/OSM250	Short type	OSS250G1S/4	1SCA022731R9630	4	0.08
OS/OSM315...400	Long type	OSS400G1L/3	1SCA022776R6650	3	0.18
OS/OSM315...400	Short type	OSS400G1S/3	1SCA022776R6900	3	0.10
OS/OSM315...400	Long type	OSS400G1L/4	1SCA022776R6730	4	0.25
OS/OSM315...400	Short type	OSS400G1S/4	1SCA022776R7030	4	0.15
OS/OSM600...800	Long type	OSS800G1L/3	1SCA022776R7200	3	0.53
OS/OSM600...800	Short type	OSS800G1S/3	1SCA022776R7540	3	0.21
OS/OSM600...800	Long type	OSS800G1L/4	1SCA022776R7380	4	0.70
OS/OSM600...800	Short type	OSS800G1S/4	1SCA022776R7460	4	0.28
OS1200...1250/ OSM1250	Long type	OSS1250G1L/3	1SCA107938R1001	3	0.76
OS1200...1250/ OSM1250	Short type	OSS1250G1S/3	1SCA107939R1001	3	0.40
OS1200...1250/ OSM1250	Long type	OSS1250G1L/4	1SCA107940R1001	4	1.00
OS1200...1250/ OSM1250	Short type	OSS1250G1S/4	1SCA107941R1001	4	0.52
Terminal shrouds suitable for mechanisms with detachable integrated neutral (N3 versions)					
OS/OSM100G...250_N3_	Long type	OTS250G1L	1SCA022715R5340	1	0.03
OS/OSM100G...250_N3_	Short type	OTS250G1S	1SCA022715R5260	1	0.02
OS/OSM315...400_N3_	Long type	OSS250G1L	1SCA022727R5080	1	0.03
OS/OSM315...400_N3_	Short type	OSS250G1S	1SCA022727R4940	1	0.02
OS/OSM630...800_N3_	Long type	OTS800G1L	1SCA022776R7710	1	0.10
OS/OSM630...800_N3_	Short type	OTS800G1S	1SCA022776R8010	1	0.06
OS1200...1250/OSM1250_N3_	Long type	OTS1600G1L	1SCA106134R1001	1	0.20
OS1200...1250/OSM1250_N3_	Short type	OTS1600G1S	1SCA102667R1001	1	0.12
Single pole terminal shroud for the fourth pole side terminals (LR-types)					
IP20, snap-on mounting, grey plastic.					
OS250_LR	Short type	OSS250G1SH/1	1SCA103500R1001	1	0.003
OS400_LR	Short type	OSS400G1SH/1	1SCA103503R1001	1	0.003

Please consult us when using OS600J...OS800L with OZXA-800 lugs.

Accessories for fusible disconnect switches 32...1250A

Ordering information for terminal shrouds



OSS160GG3LS

Terminal shrouds:

Three and four pole terminal shrouds for side terminals (LR types)

IP20. Snap-on mounting, grey plastic.

Suitable for switches	No. of poles	Remarks	Type	Order number	Units/type [pcs]	Weight/unit [kg]
OS100G...160G_LR	3	Long type	OSS160GG3LS	1SCA121570R1001	1	0.01
OS100G...160G_LR	4	Long type	OSS160GG4LS	1SCA121571R1001	1	0.01
OS200...400_	3	Short type	OSS400G3SS	1SCA100390R1001	1	0.01
OS200...400_	3	Long type	OSS400G3LS	1SCA100396R1001	1	0.01
OS200...400_	4	Left side, short	OSS400G4SSL	1SCA100392R1001	1	0.01
OS200...400_	4	Left side, long	OSS400G4LSL	1SCA100398R1001	1	0.01
OS200...400_	4	Right side, short	OSS400G4SSR	1SCA100394R1001	1	0.01
OS200...400_	4	Right side, long	OSS400G4LSR	1SCA100400R1001	1	0.01



OSS400G3LS



OEZ XU14

Single pole shroud for terminal clamps

Snap-on mounting, transparent plastic, IP 2X.

Suitable for clamps	Type	Order number	Units/type [pcs]	Weight/unit [kg]
OZXB2, 2L	OZXB2K	1SCA022264R0010	3	0.06
OZXB3, 4	OZXB3K	1SCA022264R0440	3	0.18
OZXB5, 6	OZXB4K	1SCA022199R2850	3	0.24
OZXB7, 7L	OZXB5K	1SCA022283R8040	3	0.15

Terminal angle for side terminals (LR types)

Terminal angle extension bar for cable connections in upper or lower position. Including terminal bolts M10x30.

Suitable for switches	Type	Order number	Units/type [pcs]	Weight/unit [kg]
OS100G...160G_LR, 3-pole	OEZ XU68/3	1SCA121380R1001	3	-
OS100G...160G_LR, 4-pole	OEZ XU68/4	1SCA121379R1001	4	-
OS200...400_LR	OEZ XU14/3	1SCA100361R1001	3	0.24
OS200...400_LR	OEZ XU14/4	1SCA101082R1001	4	0.32

Accessories for fusible disconnect switches 32...1250A

Ordering information for terminal clamp sets



OZXT1

Terminal clamp sets

Suitable for switches	Cable cross section [mm ²]	Type	Order number	Units/type [pcs]	Weight/unit [kg]
Insulated versions					
OS/OSM32G...63G	16...50 Al, 2.5...50 Cu	OZXT1	1SCA022469R6310	3	0.05



OZXB8

OZXB-type Al/Cu connectors made of stainless steel

Suitable for switches	Cable cross section [mm ²]	Suitable shroud	Type	Order number	Units/type [pcs]	Weight/unit [kg]
OS/OSM100G...160G ¹	10...70	OSS160G_	OZXB1L	1SCA022169R2030	3	0.15
OS/OSM100G...160G ¹	95...185	OSS160G_	OZXB8	1SCA022744R1510	3	0.50
OS/OSM200	10...70	OSS200_L	OZXB1L	1SCA022169R2030	3	0.15
OS/OSM200	25...120	OZXB2K	OZXB2	1SCA022119R7610	3	0.34
OS/OSM200 ²	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.42
OS/OSM200	95...185	OSS200_L	OZXB8	1SCA022744R1510	3	0.50
OS200	95...240	OSS200_L	OZXB9	1SCA022750R3210	3	0.50
OSM250	10...70	OSS200_L	OZXB1L	1SCA022169R2030	3	0.15
OS/OSM250 ²	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.42
OS/OSM250 ²	95...185	OZXB3K	OZXB3	1SCA022136R8100	3	1.30
OS/OSM250 ²	2x(95...185)	OZXB3K	OZXB4	1SCA022137R4760	3	1.70
OS/OSM250 ²	120...300	OZXB4K	OZXB5	1SCA022137R2470	3	2.30
OS/OSM250 ²	120...240	OZXB5K	OZXB7L	1SCA022185R7130	3	1.20
OS/OSM250 ²	95...185	OSS250_L	OZXB8	1SCA022744R1510	3	0.50
OS250 ²	95...240	OSS250_L	OZXB9	1SCA022750R3210	3	0.50
OS200...400_LR_	95...240	OSS400G4LSL	OZXB17	1SCA022859R3230	3	0.53

¹Suitable for OS125G...160G_LR -types only with terminal angle OEZXU68.

²Suitable for OS250_BB -types, OS200B_LR, for OS250_LR types suitable only with terminal angle OEZXU14.



OZXB17

Accessories for fusible disconnect switches 32...1250A

Ordering information for terminal clamp sets



OZXB2L



OZXB8

Terminal clamp sets

Suitable for switches	Cable cross section [mm ²]	Type	Order number	Units/type [pcs]	Weight/unit [kg]
OZXB-type Al/Cu connectors made of stainless steel					
OS/OSM315...400 ¹	25...120	OSS400_L	OZXB2L	1SCA022158R7750	3 0.42
OS/OSM315...400 ¹	95...185	OZXB3K	OZXB3	1SCA022136R8100	3 1.30
OS/OSM315...400 ¹	2x(95...185)	OZXB3K	OZXB4	1SCA022137R4760	3 1.70
OS315...400 ¹	120...300	OZXB4K	OZXB5	1SCA022137R2470	3 2.30
OS315...400 ¹	2x(120...300)	OZXB4K	OZXB6	1SCA022137R4920	3 3.03
OS/OSM315...400 ¹	120...240	OZXB5K	OZXB7	1SCA022185R0040	3 1.00
OS/OSM315...400 ¹	95...185	OSS400_L	OZXB8	1SCCA022744R1510	3 0.50
OS/OSM315...400 ¹	95...240	OSS400_L	OZXB9	1SCA022750R3210	3 0.50
OS/OSM630...800	95...185	OSS800_L	OZXB3	1SCA022136R8100	3 1.30
OS/OSM630...800	2x(95...185)	OSS800_L	OZXB4	1SCA022137R2470	3 1.70
OS/OSM630...800	120...300	OSS800_L	OZXB5	1SCA022137R2470	3 2.30
OS/OSM630...800	2x(120...300)	OSS800_L	OZXB6	1SCA022137R4920	3 3.03
OS/OSM630...800	120...240	OSS800_L	OZXB7L	1SCA022185R7130	3 1.20
OS/OSM630...800	95...185	OSS800_L	OZXB8	1SCA022744R1510	3 0.50
OS/OSM630...800	95...240	OSS800_L	OZXB9	1SCA022750R3210	3 0.50

¹Suitable for OS315...400_BB_-types, for OS315...400_LR_-types suitable only with terminal angle OEZXU14.

Accessories for fusible disconnect switches 32...1250A

Ordering information for terminal clamp sets



OZXB8



OZXR95



OZXR185



OZXR240



OZXR300

Terminal clamp sets

Suitable for switches	Cable cross section [mm ²]	Suitable shroud	Type	Order number	Units/type [pcs]	Weight/unit [kg]
OZXR type Al/Cu connectors made of stainless steel						
OS/OSM1250	95...185	OTS1600_L	OZXB3	1SCA022136R8100	3	1.30
OS/OSM1250	2x(95...185)	OTS1600_L	OZXB4	1SCA022137R4760	3	1.70
OS/OSM1250	120...300	OTS1600_L	OZXB5	1SCA022137R2470	3	2.03
OS/OSM1250	2x(120...300)	OTS1600_L	OZXB6	1SCA022137R4920	3	3.03
OS/OSM1250	210...240	OTS1600_L	OZXB7L	1SCA022185R7130	3	1.20
OS/OSM1250	95...185	OTS1600_L	OZXB8	1SCA022744R1510	3	0.50
OS/OSM1250	95...240	OTS1600_L	OZXB9	1SCA022750R3210	3	0.50
OZXR type Al/Cu connectors made of stainless steel and copper²						
OS100G...160G ¹	6...70	OSS160G_L	OZXR70	1SCA115529R1001	3	0.15
OS100G...160G ¹	25...95	OSS160G_L	OZXR95	1SCA115530R1001	3	0.21
OS200	25...95	OSS200_L	OZXR95	1SCA115530R1001	3	0.21
OS200	95...185	OSS200_L	OZXR185	1SCA115531R1001	3	0.45
OS200	2x(95...185)	-	OZXR2X185	1SCA115534R1001	3	0.66
OS250	95...185	OSS250_L	OZXR185	1SCA115531R1001	3	0.45
OS250	2x(95...185)	-	OZXR2X185	1SCA115534R1001	3	0.66
OS315...400	95...240	OSS400_L	OZXR240	1SCA115532R1001	3	0.42
OS315...400	2x(95...185)	-	OZXR2X185	1SCA115534R1001	3	0.66
OS315...400	185...300	-	OZXR300	1SCA115533R1001	3	0.87
OS630...800	2x(185...300)	OSS800_L	OZXR2X300	1SCA115535R1001	3	1.59
OZXP type Al/Cu connectors made of tin plated aluminium profile²						
OS100G...160G ¹	6...95	OSS160G_L	OZXP95	1SCA115539R1001	3	0.09
OS200	6...95	OSS200_L	OZXP95	1SCA115539R1001	3	0.09
OS200	16...120	OSS200_L	OZXP120	1SCA115540R1001	3	0.15
OS200	25...150	-	OZXP150	1SCA115541R1001	3	0.18
OS200	35...240	-	OZXP240	1SCA115542R1001	3	0.27
OS250	35...240	-	OZXP240	1SCA115542R1001	3	0.27
OS315...400	35...240	-	OZXP240	1SCA115542R1001	3	0.27
OS315...400	95...300	-	OZXP300	1SCA115543R1001	3	0.42
OS315...400	2x(70...240)	-	OZXP2X240	1SCA115544R101	3	1.38
OS630...800	2x(70...240)	OSS800_L	OZXP2X240	1SCA115544R1001	3	1.38

¹For _LR-types, suitable only with terminal angle OEZXU68.

²Suitable also for OS200...400_BB_, for OS200...400_LR_-types suitable only with terminal angle OEZXU14.

Accessories for fusible disconnect switches 32...1250A

Ordering information for terminal lugs



Terminal lug kits from Al- and Cu-cables for UL/CSA disconnect switches
 One kit includes 6 pcs.

Suitable for switches	Cable size	Type	Tightening torque [lb.in/Nm]	Weight/unit [kg]	Weight/unit [lb]
OS100	AWG14-2/0	OZXA-24	120/13.6	0.21	0.45
OS200	AWG 4-300MCM	OZXA-200	275/31.1	0.04	0.09
OS400	AWG2-600MCM	OZXA-400	375/42.4	0.05	0.12
OS600...800	2 X AWG 2-600MCM	OZXA-800	500/56.5	0.21	0.45
OS1200	4 X AWG 2-600MCM	OZXA-1200	500/56.5	0.45	0.98

For ordering please consult us.



Technical data for terminal lugs

Description	
UL approval file	E60207
Temperature rating, °C	75
Wire tightening Type of tool	Allen (Hex) wrench
Lug mounting	Bolt & nut mounting
AWG (American Wire Gauge) wire class	B.C



Accessories for fusible disconnect switches 32...1250A

Ordering information for conversion kits



OESAZW2

Conversion kits for front operated combination switches

Suitable for switches	Switches needed [pcs]	Shaft distance [mm]	Type	Order number	Units/type [pcs]	Weight/unit [kg]
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6 and 8-pole switch mechanism

Parallel attachment for connecting 3- and 4-pole switches. The switches work simultaneously.

6 and 8-pole switches, OS32G...400

The attachment levers are provided with holes, enabling different shaft distances.
The combination switches can be mounted either horizontally or vertically.

OS32G...250	Two 3- or 4-pole	45...240mm, step distance 15mm	OESAZW2	1SCA022078R1600	1	0.37
OS315...400	Two 3- or 4-pole	60...440mm, step distance 20mm	OETLZW9	1SCA022061R3300	1	1.1



OTZW25

Change-over switch mechanism

Two switches connected with a mechanism operating into I-O-II positions.

OS32G...250	Two 3- or 4-pole	210...570mm, step distance 20mm	OTZW25	1SCA022778R6920	1	2.8
OS315...400	Two 3- or 4-pole	210...430mm, step distance 20mm	OETLZW11	1SCA022078R0030	1	3.0
OS315...800	Two 3- or 4-pole	210...610mm, step distance 20mm	OETLZW12	1SCA022078R0200	1	4.6



OTZW26

Bypass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to bypass, for example, a breaker for maintenance. The bypass attachment can be used together with another combination attachment.

OS32G...250	Three 3- or 4-pole	-	OTZW26	1SCA022778R7060	1	3.3
-	Between 1 and 2:	210...390mm, step distance 20mm	-	-	-	-
-	Between 1 and 3:	250...430mm, step distance 20mm	-	-	-	-
OS315...800	Three 3- or 4-pole	-	OETLZW13	1SCA022078R0460	1	4.0
-	Between 1 and 2:	210...570mm, step distance 20mm	-	-	-	-
-	Between 1 and 3:	250...610mm, step distance 20mm	-	-	-	-



OETLZW14

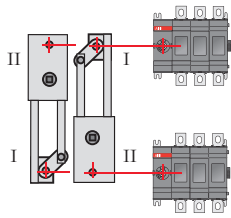
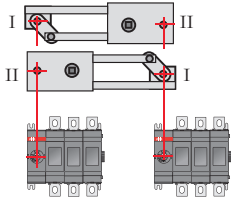
Mechanical interlock mechanism

Prevents one switch from closing to ON -position, if the other is not in OFF - position.
OTZW/OETLZW-types: When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in the ON-position. (UPS-usage, make-before-break)

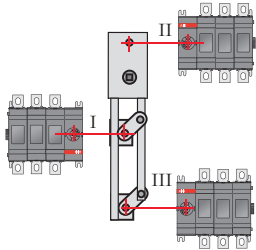
OS32G...250	Two 3- or 4-pole	190	OTZW10	1SCA022431R5280	1	0.40
OS315...800	Two 3- or 4-pole	250	OETLZW14	1SCA022077R3410	1	0.70
OS315...800	Two 3- or 4-pole	300	OETLZW3	1SCA022049R0380	1	0.80
OS315...1250	Two 3- or 4-pole	500	OETLZW15	1SCA022081R9340	1	1.24

Accessories for fusible disconnect switches 32...1250A

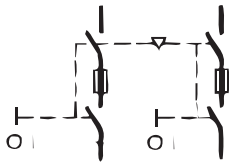
Ordering information for conversion kits



Change-over switches



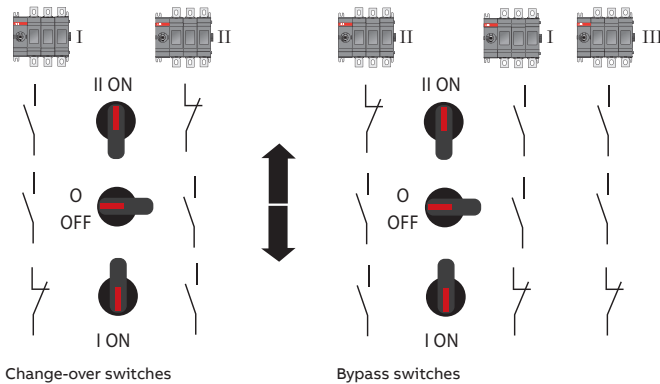
Change-over and bypass switches



Mechanical interlock

Shafts and handles for conversion kits

Conversion kit type	Shaft	To be ordered separately		Included in the conversion kit delivery	The standard handle or shaft of one of the combined switches can be used	
		Handle	Shaft		Handle	Shaft
6 and 8-pole switches						
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OETLZW9	-	-	-	-	x	x
Change-over switches						
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
OETLZW11	-	-	x (2 pcs)	OHB145J12E011	-	-
OETLZW12	-	-	x (2 pcs)	YASDA21	-	-
Bypass switches						
OTZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
OETLZW13	-	-	x (3 pcs)	YASDA 6	-	-
Mechanical interlock						
OTZW10	-	-	-	-	x	x
OETLZW14	-	-	-	-	x	x
OETLZW3	-	-	-	-	x	x
OETLZW15	-	-	-	-	x	x



Change-over switches

Bypass switches

Accessories for fusible disconnect switches 32...1250A

Ordering information for electronic fuse monitor



OFM260

Electronic fuse monitor

Includes the auxiliary contacts 1NO + 1NC. More information, see brochure OFM_OFS20GB.

OS Mini

Mounting onto the left side of OS Mini (with a frame OSZ4) or on mounting plate.

Rated voltage [V]	Type	Order number	Weight/unit [kg]
120...240/AC	OFM240	1SCA022579R1340	0.2
120...260/AC	OFM260	1SCA022459R8560	0.14
380...600/AC	OFM600	1SCA022579R1260	0.2
380...690/AC	OFM690	1SCA022459R8480	0.14



OFS260

OS/OSM32G...1250

Mounting onto the left side of OS32G-1250 switch fuse (right side of OSM motorized switch fuses) or on DIN-rail or on mounting plate.

Rated voltage [V]	Type	Order number	Weight/unit [kg]
100...260/AC	OFS260	1SCA022716R0180	0.16
380...690/AC	OFS690	1SCA022715R9920	0.16
45...140/DC	OFD110EA	1SCA121775R1001	0.155
135...550/DC	OFD500EA	1SCA121776R1001	0.155



OFD500EA

Mounting accessories for fuse monitor

Suitable for switches	Flat terminal size [mm]	Type	Order number	Units/type [pcs]	Weight/unit [kg]
Crimp terminals					
OS_	2.8 - 0.8	OFMZX2	1SCA022475R9910	6	0.01
Mounting frame for OS Mini					
Mounting on the left side of the switch		OSZ4	1SCA022530R0200	1	0.60



OFMZX2



OSZ4

Accessories for fusible disconnect switches 32...1250A

Ordering information for blown fuse indicators



OSD25P3

Blown fuse indicators (DPMM)

Striker type fuse is needed. See the dimensions in IEC60269-2-1, Section 1A.

Suitable for switches	Type	Order number	Weight/unit [kg]
-----------------------	------	--------------	------------------

OS Mini OS25 ... 32FF

Suitable for OS Mini 25...32FF_ with cylindrical NFC striker fuses. Auxiliary contact (1x C/O) included. See the ratings on page 9-25, type OA4

for 3-pole switches	OSD25P3	1SCA022192R9060	0.10
for 4-pole switches, fused neutral	OSD25P4	1SCA022196R9520	0.10



OSGD50P4

OS/OSM50GF_

Auxiliary contacts (3 x C/O in 3-pole, 4 x C/O in 4-pole) included. Ratings: lth: 5A, AC15: 0.15A/250VAC. NEMA 5A, 125-250 VAC, 1/10 HP

for 3-pole switches	OSGD50P3	1SCA116401R1001	0.015
for 4-pole switches, fused neutral	OSGD50P4	1SCA115689R1001	0.020



OSGD125P3

OS/OSM125GF_

Auxiliary contacts (3 x C/O in 3-pole, 4 x C/O in 4-pole) included. Ratings: lth: 5A, AC15: 0.15A/250VAC. NEMA 5A, 125-250 VAC, 1/10 HP

for 3-pole switches	OSGD125P3	1SCA115690R1001	0.025
for 4-pole switches, fused neutral	OSGD125P4	1SCA115692R1001	0.035



OSZX3

OS/OSM250D...800D

Auxiliary contacts (3xNO + 3xNC in 3-pole and 4xNO + 4xNC in 4-pole) included. See the ratings on page 9-25, type OA1G_, OA3G_

for 3-pole switches	OSZX3	1SCA101224R1001	0.15
for 4-pole switches, fused neutral	OSZX4	1SCA101225R1001	0.20

Fuse status and corresponding auxiliary contact position

Auxiliary contact type	Fuse OK	Fuse blown
OA1G_		
OA3G_		

Accessories for fusible disconnect switches 32...1250A

Ordering information for cam attachment and interlocks



OSZT1A



OSZT2A

Mechanism interlock kits and Electrical interlocks

OS32G...1250 switch fuses can be interlocked in the OFF position using padlocks and by using a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8mm.

Note: The shaft must go through the interlock into the switch mechanism.

Suitable for switches	Type	Order number	Weight/unit [kg]
Interlocking in the OFF position			
OS32G...160G	OTZT1A	1SCA106522R1001	0.21
OS200...250_	OSZT1A	1SCA106532R1001	0.32
OS315...400_	OSZT2A	1SCA106534R1001	0.75
OS600...800_	OSZT3A	1SCA106535R1001	1.20
OS1200...1250_	OSZT4A	1SCA106536R1001	2.00
Interlocking in the OFF & ON positions			
OS32G...160G	OTZT1L	1SCA106527R1001	0.21
OS200...250_	OSZT1L	1SCA106538R1001	0.32
OS315...400_	OSZT2L	1SCA106539R1001	0.75
OS600...800_	OSZT3L	1SCA106540R1001	1.20
OS1200...1250_	OSZT4L	1SCA106541R1001	2.00

Accessories for fusible disconnect switches 32...1250A

Ordering information for coils and mounting accessories



PDAL2-230AC50Hz



OSGZD1

Coils

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF position or both in the OFF and ON positions. The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON position and switches with L-type interlocks cannot be turned to the ON or OFF positions.

Suitable for switches	Type	Order number	Weight/unit [kg]
AC coils			
24 VAC, 60 Hz	PDAL2/24AC60Hz	1SCA111350R1001	0.15
110 VAC, 50Hz	PDAL2/110AC50Hz	1SCA106543R1001	0.15
110 VAC, 60Hz	PDAL2/110AC60Hz	1SCA107100R1001	0.15
120 VAC, 60 Hz	PDAL2/120AC60Hz	1SCA111353R1001	0.15
208 VAC, 60Hz	PDAL2/208AC60Hz	1SCA107101R1001	0.15
230 VAC, 50Hz	PDAL2/230AC50Hz	1SCA107102R1001	0.15
240 VAC, 60 Hz	PDAL2/240AC60Hz	1SCA111356R1001	0.15
DC coils			
24 VDC	PDAL2/24DC	1SCA106542R1001	0.15
48 VDC	PDAL2/48DC	1SCA107103R1001	0.15
60 VDC	PDAL2/60DC	1SCA107104R1001	0.15
110 VDC	PDAL2/110DC	1SCA107105R1001	0.15
125 VDC	PDAL2/125DC	1SCA111338R1001	0.15
220 VDC	PDAL2/220DC	1SCA112503R1001	0.15
Technical data for the coil			
Operating voltage	-	U=0.8...1.1 x Un	-
Operating ambient temperature	-	-40° C...65° C	-
Power consumption	with AC	6.5 W	-
-	with DC	9 VA	-

Mounting accessories: DIN-rail mounting kit

For mounting a switch fuse into 35mm DIN-rail

Suitable for switches	Type	Order number	Weight/unit [kg]
OS32G...160G, 1 - 4 -pole	OSGZD1	1SCA115688R1001	0.20

Accessories for fusible disconnect switches 32...1250A

Ordering information for spare part kits

Spare part kits

Suitable for switches	Type	Order number	Units/type [pcs]	Weight/unit [kg]
Fuse cover, window and label set				
OS32GB-OS63GB/ OS32GD-OS63GD/OS50GF	OSFC1/B10	1SCA149864R1001	10	0.100
OS60GJ	OSFC2/B10	1SCA149872R1001	10	0.110
OS125GD-OS160GD/OS125GF	OSFC3/B10	1SCA149873R1001	10	0.200
OS100GB-OS200GB	OSFC4/B10	1SCA149874R1001	10	0.180
OS100GJ	OSFC5/B10	1SCA149875R1001	10	0.180
OS200D/OS200B	OSFC6/B10	1SCA149876R1001	10	0.300
OS200J	OSFC7/B10	1SCA149877R1001	10	0.330
OS250D/OS250B	OSFC8/B10	1SCA149878R1001	10	0.400
OS400D	OSFC9/B4	1SCA149879R1001	4	0.200
OS315B-OS400B/OS400J	OSFC10/B4	1SCA149865R1001	4	0.220
OS630D-OS800D/OS630B-OS800B/OS600J-OS800L	OSFC11	1SCA149866R1001	1	0.100
OS1250D/OS1250BOS1200L	OSFC12	1SCA149867R1001	1	0.330
Fuse cover and window				
OS40FD	OSFC13	1SCA149868R1001	1	0.180
Fuse cover				
OS20FB/OS32FB	OSFC14	1SCA149869R1001	1	0.858
OS25FF/OS32FF	OSFC15	1SCA149870R1001	1	0.077
OS30FACC/OS30FAJ	OSFC16	1SCA149871R1001	1	0.073
Mechanism cover and label set				
OS50GF/OS60GJ-OS100GJ/OS32GB-OS160GB/OS32GD-OS160GD	OSMC1/B4	1SCA149880R1001	4	0.040
OS200D-250D/OS200B-OS250B/OS200J	OSMC2/B4	1SCA149881R1001	4	0.045
OS315B-OS400B/OS400D/OS400J	OSMC3	1SCA149882R1001	1	0.020
OS630B-OS800B/OS630D-OS800D/OS600J-OS800J	OSMC4	1SCA149883R1001	1	0.050
OS1250D/OS1250B/OS1200L	OSMC5	1SCA149884R1001	1	0.070
Shaft locking ring and screw				
OS32GD-OS250D/OS32GB-OS250B/OS50GF-OS125GF/OS60GJ-OS200J	OTZS2/B10	1SCA126043R1001	10	0.001
Lock spring and screw				
OS400D-OS1250D/OS315B-OS1250B/OS400J-OS1200L	OZX1	1SCA105708R1001	10	0.090

Flange handles for fusible disconnect switches 30...1200A

Ordering information for flange handles



Switch

ABB's flange operated disconnect switches comply with NFPA79 requirements. The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version provides flexible depth and mounting location depending on the length of the cable. Cables are available in lengths up to 120 inches.

Shaft operated 30...100A

For a complete assembly, please select one of each.



Handle

Flange operated fusible disconnects (shaft) 3-pole

UL general purpose amp rating (A)	UL fuse type 600V	Order number
30	CC	OS30FACCF30
30	J	OS30FAJF30
60	J	OS60GJF30
100	J	OS100GJF30



Shaft

Flange handle

NEMA rating	Marking	Defeatable	Padlockable	Order number
1/12/3R	OFF/ON	No	Yes	DSFHN-HS12
4/4X	OFF/ON	No	Yes	DSFHN-HS4

Shafts

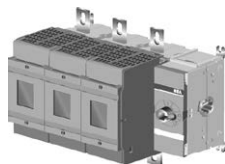
For use with	Maximum enclosure depth (in.)	Order number
OS30...100	16	DSFHS-12
	21	DSFHS-17
	26.5	DSFHS-22

Lug kit¹

¹ For 100A and above. OS30...60 come with internal lugs.

Flange handles for fusible disconnect switches 30...1200A

Ordering information for flange handles



Switch



Handle



Cable



Lug kit¹



Operating mechanism

Cable operated 30...1200A

For a complete assembly, please select one of each.

Flange operated fusible disconnects (cable) 3-pole

UL general purpose amp rating (A)	UL fuse type 600V	Disconnect switch order number	Mechanism order number
30	CC	OS30FACC12	MKCS2
30	J	OS30FAJ12	MKCS2
60	J	OS60GJ12	MKCS3
60	J	OS60GJ30	MKCS4
100	J	OS100GJ30	MKCS4
200	J	OS200J30	MKCS4
400	J	OS400J30-FC	included
600	J	OS600J30-FC	included
800	L	OS800L30-FC	included
1200	L	OS1200L30-FC	included

Flange handle

For use with	Order number	
	NEMA rating 1/12/3R	NEMA rating 4/4X
OS30FA_12, OS60...100GJ30, OS200J30	OHF1C12	OHF1C4
OS400J30-FC	K7FCH	K7FCH4
OS600J30-FC	K8FCH	K8FCH4
OS800...1200L30-FC	K9FCH	K9FCH4

Cable

For use with	Order number							
	36 in.	48 in.	60 in.	72 in.	84 in.	96 in.	108 in.	120 in.
OS30FA_12, OS60...100GJ30, OS200J30	OXC1L36	OXC1L48	OXC1L60	OXC1L72	OXC1L84	OXC1L96	OXC1L108	-
OS400...600J30-FC	-	K7C048	K7C060	K7C072	K7C084	K7C096	-	K7C120
OS800...1200L30	-	K8C048	K8C060	K8C072	K8C084	K8C096	-	-

Terminal shrouds

For use with	Order number
OS30FA_12	not needed
OS60GJ30	not needed
OS100GJ30	OSS160GG1L/3
OS200J30	OSS200G1L/3
OS400J30-FC	OSS403-FC
OS600J30-FC	OSS603-FC
OS800L30-FC	OSS803-FC
OS1200L30-FC	OSS1203-FC

¹ For 100A and above. OS30FA_...60GJ_ come with internal lugs.

Non-fusible disconnect switches OT16...160

Product range



Manual operation

UL 508 file # E63822	OT16F	OT63F	-
	OT25F	OT80F	-
	OT40F	-	-
UL 98 file # E101914	-	-	OT30F
	-	-	OT60F
	-	-	OT100F

Switch size	16	25	40	63	80	30	60	100	125
UL Ampere rating, 600V	20A	30A	40A	60A	80A	30A	60A	100A	-

Manual operation

UL 98 file # E101914	OT160G	-
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Switch size	100	125	160
UL Ampere rating, 600V	100A	125A	-

The selection of accessories for non-fusible disconnect switches OT16...160 include:

- | | | |
|--------------------------|-----------------------|-------------------------|
| 1. Handles | 5. Auxiliary contacts | 9. Terminal clamps |
| 2. Legend plates | 6. Fourth poles | 10. Conversion kits |
| 3. Labelling accessories | 7. N & PE terminals | 11. Locking accessories |
| 4. Shafts | 8. Terminal shrouds | |

Please note that listed accessories are not automatically included in your order.
Ordering information for accessories from page 9-55 through 9-70.

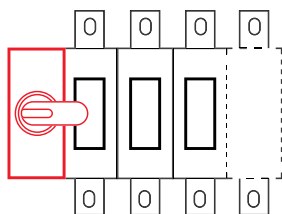
Non-fusible disconnect switches OT16...160

Type designation key

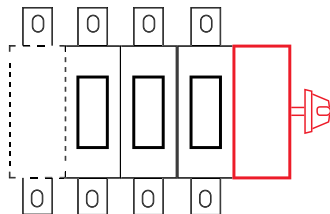
Understanding the type code keys below will help you quickly identify the correct product for your needs.

OT	16	F	4	N2
<p>ABB Brand</p> <p>OT = ABB switch-disconnector brand</p>				<p>Included accessories</p> <p>N2 = Fourth pole, simultaneous function with the main contacts</p> <p>_ = No accessories included</p> <p>P = Pistol handle + shaft</p> <p>K = Direct mount handle (for base mounting versions only)</p>
<p>Switch size</p> <p>The second letter in the code indicates the ampere rating [A] of the product: 16...160A</p>				
<p>Operation/Mounting/Certification</p> <p>F = Base and DIN-rail mounting, front operated</p> <p>FT = Door mounting, front operated</p> <p>G = Base and DIN-rail mounting, front and side operated</p> <p>GT = Door mounting, front and side operated</p> <p>FL = Base and DIN-rail mounting, extended terminals on both sides of the switch, front operated</p> <p>FLA = Base and DIN-rail mounting, extended terminals on top side only, front operated</p> <p>FLB = Base and DIN-rail mounting, extended terminals on bottom side only, front operated</p> <p>M, ML = Installation switches for 45mm standard opening, base and DIN-rail mounting, front operated</p>				<p>Number of poles and placing of the operating mechanism</p> <p>3 = 3 poles</p> <p>4 = 4 poles</p> <p>6 = 6 poles</p> <p>8 = 8 poles</p> <p>03 = 3 poles, operating mechanism at the left end of the switch</p> <p>04 = 4 poles, operating mechanism at the left end of the switch</p> <p>30 = 3 poles, operating mechanism at the right end of the switch</p> <p>40 = 4 poles, operating mechanism at the right end of the switch</p>

Pole configuration table, OT160G



Front operated
Configuration 03, 04:



Side operated
Configuration 30, 40 or 03, 04:

Non-fusible disconnect switches OT16...100, UL

Technical data for non-fusible disconnect switches

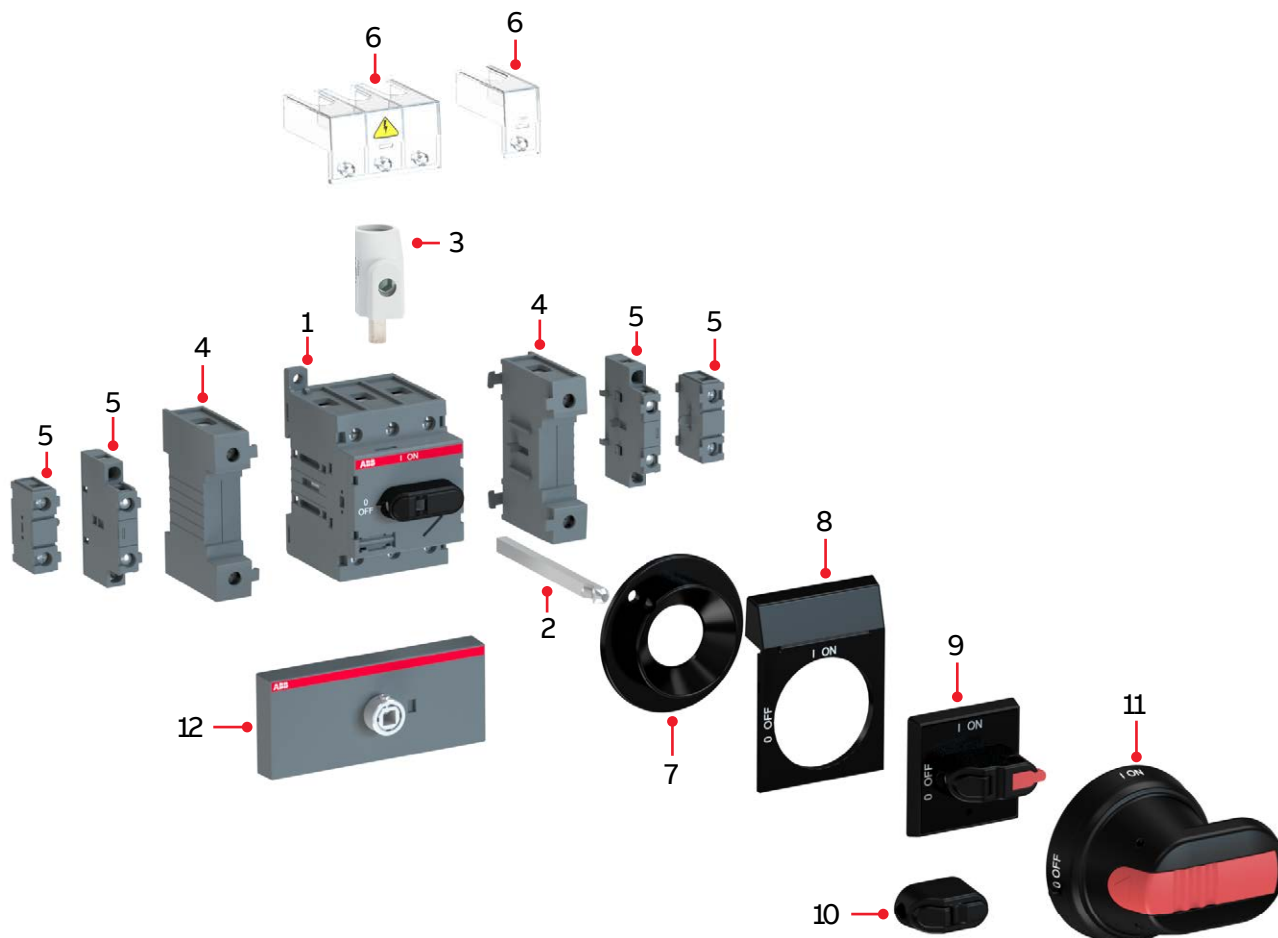
Technical data according to UL/CSA, AC ratings

Switch type			OT16F	OT25F	OT40F	OT63F	OT80F	OT30F	OT60F	OT100F	
-	-	Approval	^c UL _{US} Listed E63822	^c UL _{US} Listed E63822	^c UL _{US} Listed E63822	^c UL _{US} Listed E63822	^c UL _{US} Listed E63822	^c UL _{US} Listed E101914	^c UL _{US} Listed E101914	^c UL _{US} Listed E101914	
-	-	Compliance	UL508 CSA C22.2 No.14	UL508 CSA C22.2 No.14	UL508 CSA C22.2 No.14	UL508 CSA C22.2 No.14	UL508 CSA C22.2 No.14	UL98 CSA C22.2 No.4	UL98 CSA C22.2 No.4	UL98 CSA C22.2 No.4	
General purpose amp rating	pf = 0.7...0.8	-40° to 40 °C	20A	30A	40A	60A	80A	30A	60A	100A	
Max. operating voltage	-	-	600V	600V	600V	600V	600V	600V	600V	600V	
Max. horsepower rating/motor FLA current	pf = 0.4...0.5	240V	5 HP/ 15.2A	7.5 HP/ 22.0A	10 HP/ 28.0A	15 HP/ 42.0A	20 HP/ 54.0A	10 HP/ 28.0A	20 HP/ 54.0A	30 HP/ 80.0A	
		Three phase	480V	10 HP/ 14.0A	15 HP/ 21.0A	20 HP/ 27.0A	30 HP/ 40.0A	40 HP/ 52.0A	20 HP/ 27.0A	40 HP/ 52.0A	50 HP/ 65.0A
			600V	10 HP/ 11.0A	20 HP/ 22.0A	25 HP/ 27.0A	30 HP/ 32.0A	40 HP/ 41.0A	30 HP/ 32.0A	40 HP/ 41.0A	50 HP/ 52.0A
	Single phase	120V	1 HP/ 16.0A	1.5 HP/ 20.0A	2 HP/ 24.0A	2 HP/ 24.0A	2 HP/ 24.0A	2 HP/ 24.0A	3 HP/ 34.0A	5 HP/ 56.0A	
		240V	2 HP/ 12.0A	3 HP/ 17.0A	5 HP/ 28.0A	7.5 HP/ 40.0A	10 HP/ 50.0A	5 HP/ 28.0A	7.5 HP/ 40.0A	15 HP/ 68.0A	
		480V	5 HP/ 14.0A	7.5 HP/ 21.0A	10 HP/ 26.0A	15 HP/ 34.0A	20 HP/ 44.0A	-	-	25 HP/ 55.0A	
		600V	7.5 HP/ 16.0A	10 HP/ 20.0A	15 HP/ 27.0A	15 HP/ 27.0A	20 HP/ 38.5A	-	-	20 HP/ 35.0A	
Short circuit rating with fuse	Maximum fuse size	-	30A 60A	30A 60A	30A 60A	100A 150A	100A 150A	60A 60A	150A 100A		
-	Fuse type	J	10kA 10kA	10kA 10kA	10kA 10kA	100 kA -	100 kA -	200kA 200kA	50kA 200 kA		
-	Fuse type	T	10kA 10kA	10kA 10kA	10kA 10kA	100 kA -	100 kA -	200kA 200kA	50kA 200 kA		
-	Fuse type	RK1	10kA -	10kA -	10kA -	- -	- -	- -	- -		
-	Fuse type	RK5 ¹	5kA 5kA	5kA 5kA	5kA 5kA	10kA 5kA	10kA 5kA	- -	- -		
-	Fuse type	L	- -	- -	- -	- -	- -	- -	- -		
-	Fuse type	H	- -	- -	- -	- 5kA	- 5kA	- -	- -		
Endurances											
Min. electrical endurance, pf. 0.75...0.8	-	-	6 000 Oper.	6 000 Oper.	6 000 Oper.	6 000 Oper.	6 000 Oper.	6 000 Oper.	6 000 Oper.	6 000 Oper.	
Mechanical endurance	-	-	20 000 Oper.	20 000 Oper.	20 000 Oper.	20 000 Oper.	20 000 Oper.	20 000 Oper.	20 000 Oper.	20 000 Oper.	
Terminal lugs	-	-	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated	
Copper wire range	-	60-75 °C	18-8 AWG	18-8 AWG	18-8 AWG	14-4 AWG	14-4 AWG	14-4 AWG	14-4 AWG	8-1/0 AWG	
Torque	-	Wire tightening	7 Nm/ 0.8 lb.in	7 Nm/ 0.8 lb.in	7 Nm/ 0.8 lb.in	18 Nm/ 2 lb.in	18 Nm/ 2 lb.in	55 Nm/ 6.2 lb.in	55 Nm/ 6.2 lb.in	55 Nm/ 6.2 lb.in	

¹Fuse size 70A for RK5

Non-fusible disconnect switches OT16...160

Selection overview



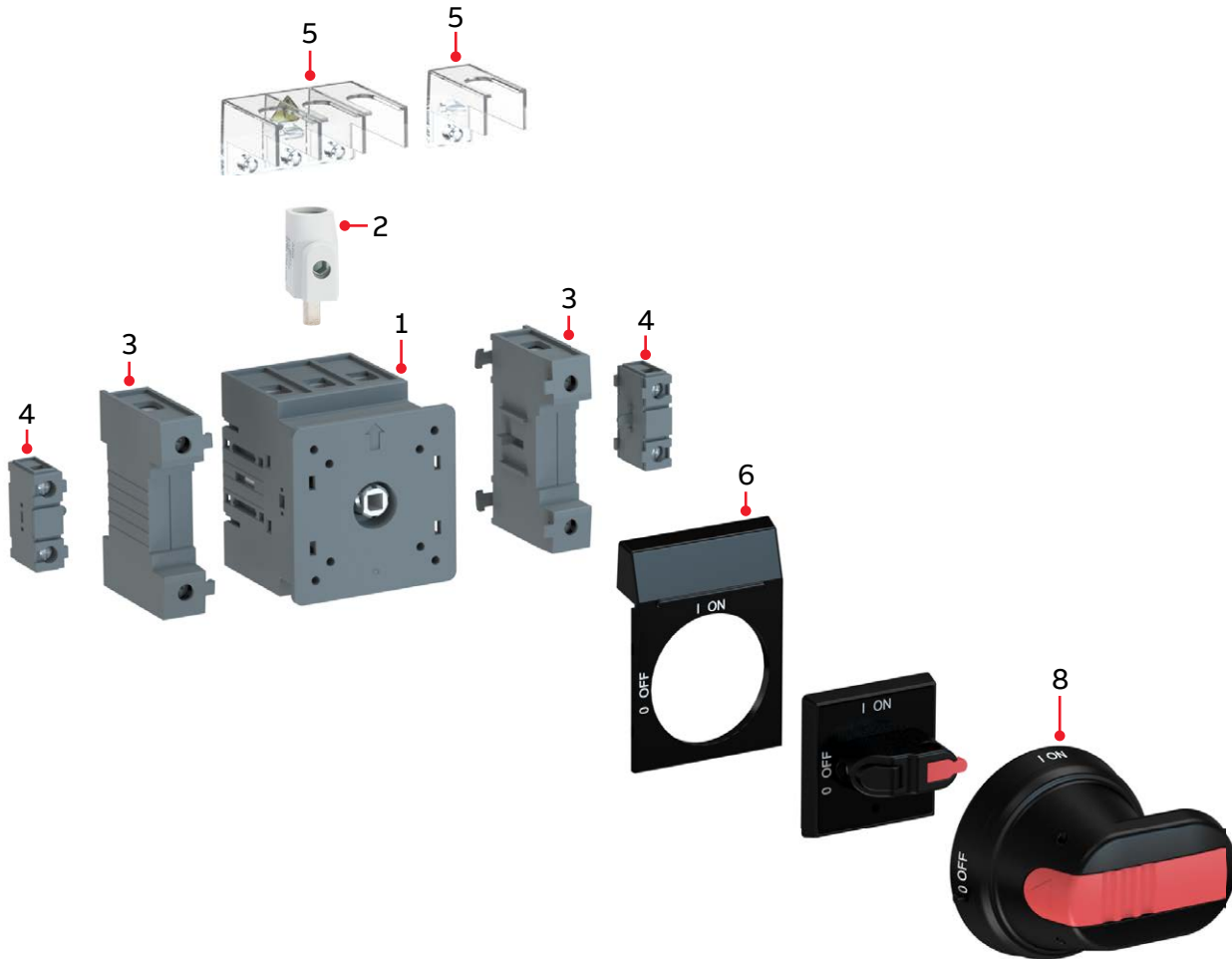
Accessory guide for OT16F...125F (base and DIN-rail mounted switch-disconnectors)

- | | |
|-------------------------------------|---------------------------|
| 1. Switch-disconnector | 7. Shaft alignment ring |
| 2. Extended shaft | 8. Legend plate |
| 3. Terminal clamp | 9. Selector handle |
| 4. Fourth pole, N- and PE-terminals | 10. Handle knob |
| 5. Auxiliary contact | 11. Pistol handle |
| 6. Terminal shroud | 12. Conversion kit |
| | 13. Labelling accessories |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT16...160

Selection overview



Accessory guide for OT16F...125F (door mounted switch-disconnectors)

- | | |
|-------------------------------------|--------------------|
| 1. Switch-disconnector | 5. Terminal shroud |
| 2. Terminal clamp | 6. Legend plate |
| 3. Fourth pole, N- and PE-terminals | 7. Selector handle |
| 4. Auxiliary contact | 8. Pistol handle |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT16...160, UL

Ordering information for non-fusible disconnect switches



OT16...40F3



OT63...80F3



OT30...100F3

Front operated non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA

Handle and shaft are not included.

Number of poles	Ampere rating A	Horsepower rating 3-phase			Type	Order code	Weight/unit	
		240 VAC	480 VAC	600 VAC			kg	lb
		HP	HP	HP				
3	20	5	10	10	OT16F3	1SCA104811R1001	0.11	0.24
4	20	5	10	10	OT16F4N2	1SCA104829R1001	0.14	0.31
3	30	7.5	15	20	OT25F3	1SCA104857R1001	0.11	0.24
4	30	7.5	15	20	OT25F4N2	1SCA104886R1001	0.14	0.31
3	40	10	20	25	OT40F3	1SCA104902R1001	0.11	0.24
4	40	10	20	25	OT40F4N2	1SCA104932R1001	0.14	0.31
3	60	15	30	30	OT63F3	1SCA105332R1001	0.27	0.60
4	60	15	30	30	OT63F4N2	1SCA105365R1001	0.3	0.66
3	80	20	40	40	OT80F3	1SCA105798R1001	0.27	0.60
4	80	20	40	40	OT80F4N2	1SCA105413R1001	0.3	0.66
3	30	10	20	30	OT30F3	1SCA105068R1001	0.36	0.79
4	30	10	20	30	OT30F4N2	1SCA108347R1001	0.5	1.10
3	60	20	40	40	OT60F3	1SCA105076R1001	0.36	0.79
4	60	20	40	40	OT60F4N2	1SCA108348R1001	0.5	1.10
3	100	30	50	50	OT100F3	1SCA105004R1001	0.36	0.79
4	100	30	50	50	OT100F4N2	1SCA105018R1001	0.5	1.10

Approvals:
 OT16,25,40,63,80: UL 508, CSA 22-2 No.14
 OT30,60,100: UL 98, CSA 22-2 No.4



OT16...40F6



OT63...80F8



OT100F8

Front operated 6- and 8-pole non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA

Handle and shaft are not included.

Number of poles	Ampere rating A	Horsepower rating 3-phase			Type	Order code	Weight/unit	
		240 VAC	480 VAC	600 VAC			kg	lb
		HP	HP	HP				
6	20	5	10	10	OT16F6	1SCA104834R1001	0.25	0.55
6	30	7.5	15	20	OT25F6	1SCA104880R1001	0.25	0.55
6	40	10	20	25	OT40F6	1SCA104936R1001	0.25	0.55
6	60	15	30	30	OT63F6	1SCA105379R1001	0.61	1.35
6	80	20	40	40	OT80F6	1SCA105427R1001	0.61	1.35
6	100	30	50	50	OT100F6	1SCA105021R1001	0.81	1.79
6	100	30	50	50	OT125F6	1SCA105057R1001	0.81	1.79
8	20	5	10	10	OT16F8	1SCA104836R1001	0.31	0.68
8	30	7.5	15	20	OT25F8	1SCA104882R1001	0.31	0.68
8	40	10	20	25	OT40F8	1SCA104938R1001	0.31	0.68
8	60	15	30	30	OT63F8	1SCA105381R1001	0.67	1.48
8	80	20	40	40	OT80F8	1SCA105429R1001	0.67	1.48
8	100	30	50	50	OT100F8	1SCA105022R1001	1.10	2.43

Non-fusible disconnect switches OT16...160, UL

Ordering information for non-fusible disconnect switches



OT16...40FT3



OT63...80FT3



OT30...100FT3



OT30...100FT4N2

Front operated non-fusible disconnect switches, door mounting, UL/CSA
Handle and shaft not included.

Number of poles	Ampere rating	Horsepower rating 3-phase			Type	Order code	Weight/unit	
		240 VAC	480 VAC	600 VAC			kg	lb
		HP	HP	HP				
3	20	5	10	10	OT16FT3	1SCA104838R1001	0.13	0.29
4	20	5	10	10	OT16FT4N2	1SCA105711R1001	0.16	0.35
3	30	7.5	15	20	OT25FT3	1SCA104884R1001	0.13	0.29
4	30	7.5	15	20	OT25FT4N2	1SCA104900R1001	0.16	0.35
3	40	10	20	25	OT40FT3	1SCA104940R1001	0.13	0.29
4	40	10	20	25	OT40FT4N2	1SCA104956R1001	0.16	0.35
3	60	15	30	30	OT63FT3	1SCA105382R1001	0.28	0.62
4	60	15	30	30	OT63FT4N2	1SCA105393R1001	0.35	0.77
3	80	20	40	40	OT80FT3	1SCA105431R1001	0.28	0.62
4	80	20	40	40	OT80FT4N2	1SCA105499R1001	0.35	0.77
3	30	20	40	40	OT30FT3	1SCA105074R1001	0.44	0.97
4	30	20	40	40	OT30FT4N2	1SCA109443R1001	0.56	1.23
3	60	20	40	40	OT60FT3	1SCA105081R1001	0.44	0.97
4	60	20	40	40	OT60FT4N2	1SCA109444R1001	0.56	1.23
3	100	30	50	50	OT100FT3	1SCA105023R1001	0.44	0.97
4	100	30	50	50	OT100FT4N2	1SCA105031R1001	0.56	1.23

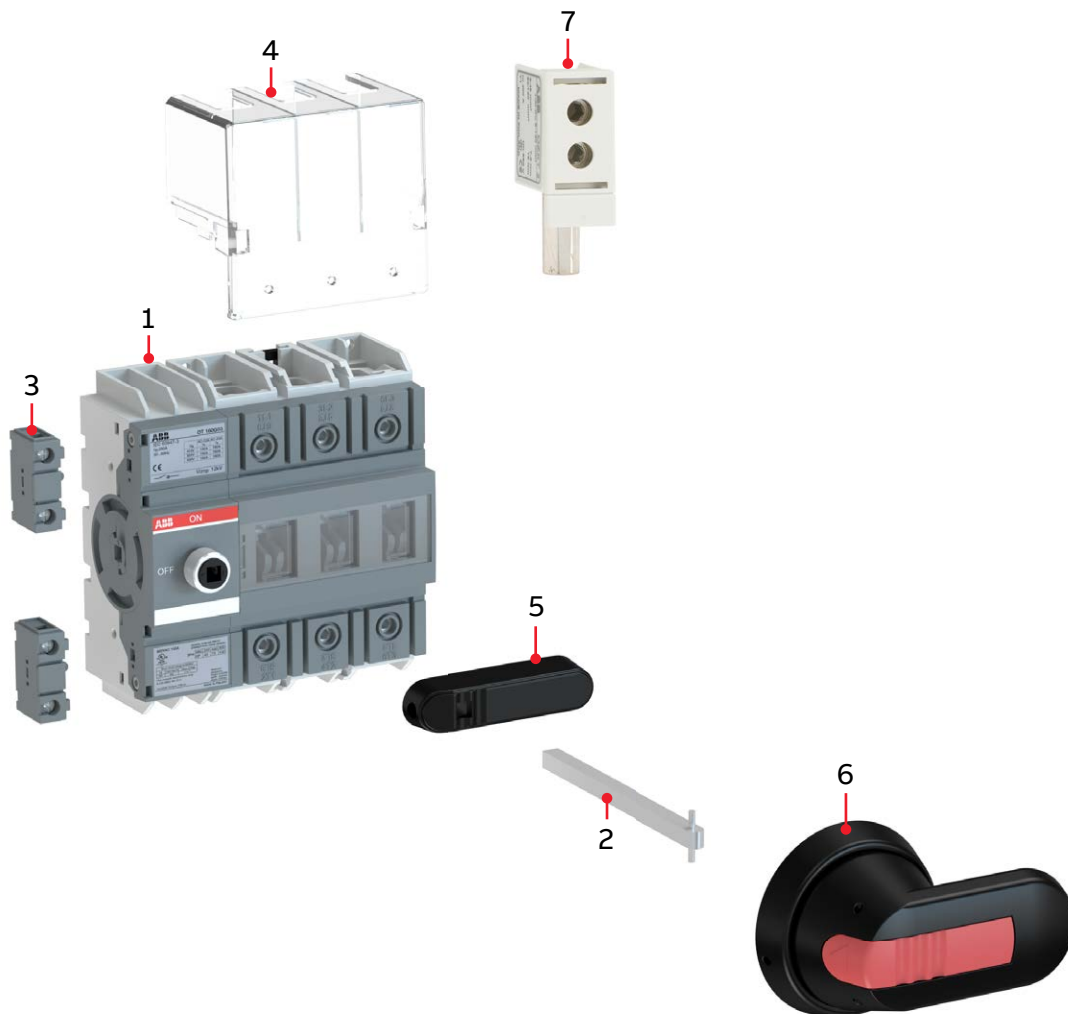
Approvals:

OT16,25,40,63,80: UL 508. CSA 22-2 No.14

OT30,60,100: UL 98. CSA 22-2 No.4

Non-fusible disconnect switches OT16

Selection overview



Accessory guide for OT160G (base and DIN-rail mounted switch-disconnectors)

- | | |
|------------------------|-------------------|
| 1. Switch-disconnector | 5. Handle knob |
| 2. Extended shaft | 6. Pistol handle |
| 3. Auxiliary contact | 7. Terminal clamp |
| 4. Terminal shroud | |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT16...160, UL

Ordering information



OT160G03K



OT160G03KL



OT160G04P



OT160GT03P



OT160GT04

OT160G non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA

The types with K at the end include direct mount non-lockable handle YAST1. The type with KL includes an lockable direct type handle OHBS16. The base mounted types with P at the end include external handle OHB65J6 and shaft OXP6X210. Front and side operation is possible with the same handle and shaft.

Number of poles	Rated operational currents		Type code	Order code	Weight/unit	
	UL98 Listed, 600V	UL 98 Recognized, 600V			kg	lb
	A	A				
3	100	125	OT160G03	1SCA135134R1001	1.1	2.43
3	100	125	OT160G03K	1SCA138208R1001	1.2	2.65
3	100	125	OT160G03KL	1SCA150028R1001	1.1	2.43
3	100	125	OT160G03P	1SCA135139R1001	1.3	2.87
4	100	125	OT160G04	1SCA135135R1001	1.3	2.87
4	100	125	OT160G04K	1SCA138215R1001	1.4	3.09
4	100	125	OT160G04KL	1SCA150184R1001	1.3	2.65
4	100	125	OT160G04P	1SCA135140R1001	1.4	3.09
3	100	125	OT160G30	1SCA138207R1001	1.1	2.43
3	100	125	OT160G30K	1SCA138209R1001	1.2	2.65
3	100	125	OT160G30KL	1SCA150185R1001	1.1	2.43
3	100	125	OT160G30P	1SCA135138R1001	1.2	2.65
4	100	125	OT160G40	1SCA138213R1001	1.3	2.87
4	100	125	OT160G40K	1SCA138214R1001	1.4	3.09
4	100	125	OT160G40KL	1SCA150186R1001	1.3	2.65
4	100	125	OT160G40P	1SCA138216R1001	1.4	3.09

Approvals:
UL98, CSA 22-2 No.4

OT160G non-fusible disconnect switches, door mounting, UL/CSA

The door mounted types with P at the end include external handle OHB65J6, shaft OXP6X50 and mounting kit OHZX6. Front and side operation is possible with the same handle and shaft.

Number of poles	Rated operational currents		Type code	Order code	Weight/unit	
	UL98 Listed, 600V	UL 98 Recognized, 600V			kg	lb
	A	A				
Door mounted versions						
3	100	125	OT160GT03	1SCA135136R1001	1.2	2.65
3	100	125	OT160GT03P	1SCA135141R1001	1.2	2.65
4	100	125	OT160GT04	1SCA135137R1001	1.3	2.87
4	100	125	OT160GT04P	1SCA135142R1001	1.3	2.87
3	100	125	OT160GT30	1SCA138220R1001	1.2	2.65
3	100	125	OT160GT30P	1SCA135143R1001	1.2	2.65
4	100	125	OT160GT40	1SCA138221R1001	1.3	2.87
4	100	125	OT160GT40P	1SCA135144R1001	1.3	2.87

Approvals:
UL98, CSA 22-2 No.4

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handle knobs



OHBS1



OHR52



OHBS3



OHR53



OHR59



OHBS11



OHBS12



OHBS16

Handle knobs for base and DIN-rail mounted switches

Mounting directly to the switch, no shaft needed. Packing includes 10pcs.

Type	Order code	Color	Handle length	Weight/ unit
			mm	kg
OHBS1	1SCA109087R1001	Black	31	0.01
OHBS1/1 ¹	1SCA109088R1001	Black	31	0.01
OHBS2	1SCA109089R1001	Black	40	0.01
OHBS2/1 ¹	1SCA109090R1001	Black	40	0.01
OHBS3	1SCA108320R1001	Black	39	0.01
OHBS3/1 ¹	1SCA108319R1001	Black	39	0.01
OHBS9	1SCA108665R1001	Black	72	0.01
OHBS9/1 ¹	1SCA108689R1001	Black	72	0.01
OHBS11	1SCA109092R1001	Black	57	0.01
OHBS12	1SCA108252R1001	Black	37	0.01
OHBS13	1SCA112046R1001	Black	72	0.019
OHBS13/1 ¹	1SCA112047R1001	Black	72	0.019
OHBS14	1SCA152488R1001	Black	40	0.01
OHBS16	1SCA149863R1001	Black	74	0.01
OHR51	1SCA109095R1001	Red	31	0.01
OHR51/1 ¹	1SCA109096R1001	Red	31	0.01
OHR52	1SCA108598R1001	Red	40	0.01
OHR52/1 ¹	1SCA108599R1001	Red	40	0.01
OHR53	1SCA108667R1001	Red	39	0.01
OHR53/1 ¹	1SCA108688R1001	Red	39	0.01
OHR59	1SCA108666R1001	Red	72	0.01
OHR59/1 ¹	1SCA108690R1001	Red	72	0.01
OHR512	1SCA108253R1001	Red	37	0.01
YAST1	1SCA022301R5350	Black	72	0.023

¹Delivery batch 1pc

Direct handles for OT16F...125F_ and OT160G_

		Knob non-padlockable	Knob padlockable	Knob shaft through non-padlockable	Knob shaft through padlockable
Switches 3- and 4-pole	OT16...40F3/F4	OHBS1, OHR51 OHBS3, OHR53	OHBS7 (3P) OHBS8 (4P)	Standard knob	OHBS12, OHR512
	OT63...80F3/F4	OHBS1, OHR51 OHBS3, OHR53	OHBS2, OHR52	Standard knob	OHBS14
	OT100...125F3/F4	OHBS3, OHR53	OHBS2, OHR52	Standard knob	OHBS11 ¹ , OHBS14
	OT30...60F3/F4	OHBS3, OHR53	OHBS2, OHR52	Standard knob	OHBS11 ¹ , OHBS14
	OT160G3/4	YAST1	-	OHBS13, OHR513	OHBS16 ¹
Switches 6- and 8-pole	OT16...40F6/F8	OHBS3, OHR53	-	Standard knob	OHBS12, OHR512
	OT63...80F6/F8	OHBS9, OHR59	-	-	OHBS12, OHR512
	OT100...125F6/F8	OHBS9, OHR59	-	-	OHBS11 ¹
	OT30...60F6/F8	OHBS9, OHR59	-	-	OHBS11 ¹
Change-over switches	OT16...40F3C/F4C	OHBS3, OHR53	OHBS2, OHR52	Standard knob	OHBS12, OHR512
	OT63...80F3C/F4C	OHBS3, OHR53	-	-	OHBS12, OHR512
	OT100...125F3C/F4C	OHBS9, OHR59	-	-	OHBS11 ¹

¹Suitable for 3 padlocks with bail diameter 5mm

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OHYS7



OHBS8

Adapter handles, for base and DIN-rail mounted installation switches

Mounting directly to the switch, no shaft needed.

Suitable for switches	Color	Type	Order code	Weight/ unit kg
OT16...40F3	Black	OHBS7	1SCA108546R1001	0.08
OT16...40F4	Black	OHBS8	1SCA108545R1001	0.08
OT16...40F3	Red	OHYS7	1SCA109852R1001	0.08
OT16...40F4	Red	OHYS8	1SCA109862R1001	0.08

Handle type	Shaft through the handle	45mm cut-out enable ¹
OHBS7_, OHR57_	No	Yes
OHBS8_, OHR58_	No	Yes

¹In I-position the handle shall remain within the cut-out height

Selector handles for base and DIN-rail mounted switches

For shaft diameter 6mm, door drilling 22.5mm. Indication I-O and ON-OFF.



OHBS3AH



OHYS3AH



OHBS2AJ



OHYS2AJ



OHBS2AJ_EH

Suitable for switches	Color	Type	Order code	Weight/ unit kg
IP54 handles, NEMA 1				
OT16...80F	Black	OHBS1AH	1SCA102680R1001	0.05
	Red-yellow	OHYS1AH	1SCA105290R1001	0.05

Door interlock in ON-position				
OT16...80F	Black	OHBS1AH1	1SCA105210R1001	0.05
	Red-yellow	OHYS1AH1	1SCA105291R1001	0.05

Padlockable with one padlock with bail diameter 5...6.3mm				
OT16...125F	Black	OHBS3AH	1SCA105234R1001	0.05
	Red-yellow	OHYS3AH	1SCA105325R1001	0.05

Padlockable with one padlock with bail diameter 5...6.3mm, door interlock in ON-position				
OT16...125F	Black	OHBS3AH1	1SCA105235R1001	0.05
	Red-yellow	OHYS3AH1	1SCA105326R1001	0.05

IP65 handles, NEMA 1, 3R, 12				
Padlockable with max. 3 padlocks with bail diameter 5...8mm, defeatable door interlock in ON-position, door interlocking in OFF-position when padlocked				
OT16...125F	Black	OHBS2AJ	1SCA105213R1001	0.07
	Red-yellow	OHYS2AJ	1SCA105296R1001	0.07

Padlockable with max. 3 padlocks with bail diameter 5...8mm, door interlock in ON-position				
OT16...125F	Black	OHBS2AJ1	1SCA105215R1001	0.07
	Red-yellow	OHYS2AJ1	1SCA105297R1001	0.07

Selector handle with metal hasp

IP65 handles, NEMA 1, 3R, 12				
Padlockable with max. 3 padlocks, door interlock in the ON-position, defeatable				
OT16...125F	Black	OHBS2AJEH	1SCA108230R1001	0.07
Padlockable with max. 3 padlocks, door interlock in the ON-position, non-defeatable				
OT16...125F	Black	OHBS2AJ1EH	1SCA105217R1001	0.07

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.

This can be defeated in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OHBS3PH, RH



OHYS3PH, RH



OHBS2PJ, RH



OHYS2PJ, RH

Selector handles for door mounted switches
Indication I-O and ON-OFF. No separate shaft needed.

Suitable for switches	Color	Type	Order code	Weight/ unit kg
Snap-on mounting, door drilling 22.5mm				
No padlocking, IP54, NEMA 1				
OT16...40FT	Black	OHBS1PH	1SCA105211R1001	0.05
	Red-yellow	OHYS1PH	1SCA105294R1001	0.05
Padlockable with one padlock, IP54, NEMA 1				
OT16...40FT	Black	OHBS3PH	1SCA105236R1001	0.05
	Red-yellow	OHYS3PH	1SCA105327R1001	0.05
Padlockable with max. 3 padlocks, IP65, NEMA 1, 3R, 12				
OT16...40FT	Black	OHBS2PJ	1SCA105231R1001	0.07
	Red-yellow	OHYS2PJ	1SCA105322R1001	0.07
Screw mounting, hole distance 36mm				
No padlocking, IP54, NEMA 1				
OT16...80FT	Black	OHBS1RH	1SCA105212R1001	0.05
	Red-yellow	OHYS1RH	1SCA105295R1001	0.05
Padlockable with one padlock, IP54, NEMA 1				
OT16...80FT	Black	OHBS3RH	1SCA105237R1001	0.05
	Red-yellow	OHYS3RH	1SCA105328R1001	0.05
Padlockable with max. 3 padlocks, IP65, hole distance 36/48mm, NEMA 1, 3R, 12				
OT16...125FT	Black	OHBS2RJ	1SCA105232R1001	0.07
	Red-yellow	OHYS2RJ	1SCA105323R1001	0.07

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
This can be defeated in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OZ331_B

Round padlockable handles for base and DIN-rail mounted switches OT16...125

Padlockable in 0-position, max 3 padlocks with max 8 mm hasp diameter.
Indication I-O and ON-OFF.

Suitable for switches	Color	Type	Order code	Weight/ unit kg
One hole mounting handle, IP65, NEMA 4X outdoor, size 66x66				
OT16...125F, OT30...100F	Black	OZ331SPB	1SCA112983R1001	0.05
	Red-yellow	OZ331SPRY	1SCA113097R1001	0.05
IP67, NEMA 4X, size 66x66				
OT16...125F, OT30...100F	Black	OZ331P67B	1SCA111427R1001	0.04
	Red-yellow	OZ331P67RY	1SCA111429R1001	0.04
Handles with door coupling in ON-position, not defeatable, IP65, NEMA 4X, size 66x66				
Shaft alignment ring for OZ371P_ handle, see page 9-61.				
OT16...125F, OT30...100F	Black	OZ371PB	1SCA111684R1001	0.05
	Red-yellow	OZ371PRY	1SCA111685R1001	0.05



OZ331_RY



OZ371PB



OHB_

Pistol handles for base and DIN-rail mounted switches OT16...125F and OT160G

For shaft diameter 6 mm, IP65, NEMA 1, 3R, 12, padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation. Indication in types OHB and OHY: I-O, ON-OFF, in types OHG: I-O.

Handle length mm	Color	Type	Order code	Weight/ unit kg
45	Black	OHB45J6	1SCA022380R8770	0.10
45	Red-yellow	OHY45J6	1SCA022380R8930	0.10
45	Grey	OHG45J6	1SCA022380R8850	0.10



OHY_



OHG45J6

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.

Door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.

Handles padlockable in ON and OFF positions available on request.

The door is locked when the handle is padlocked. The padlocked handle is not defeatable.

Pistol handle mounting kit for OT 100...125 FT_ and OT160GT switches

Mounting kit OHZX6 consists of door mount handle fixing plate, screws and shaft.
The pistol handle is not included.



OHZX6

Suitable for switches	Color	Type	Order code	Weight/ unit kg
OT100...125 FT_ OT30...100FT, OT160GT	Black	OHZX6	1SCA022559R5670	0.01

Accessories for non-fusible disconnect switches OT16...160

Ordering information for handles



OPBS1



OPB2



OPG2



OPS2



OPBS1EN1



OPSS1EN1



OPB2EN1



OPG2EN1



OPS2EN1

Legend plates for selector handles

Color	Type	Order code	Weight/ unit kg
Plain plates for OH 1_ and OH 3_ handles			
Black	OPBS1	1SCA111519R1001	0.01
Yellow	OPYS1	1SCA111528R1001	0.01
Silver	OPSS1	1SCA111523R1001	0.01
Grey	OPGS1	1SCA111563R1001	0.01
Plain plates for OH 2_ handles			
Black	OPB2	1SCA022353R4110	0.01
Yellow	OPY2	1SCA022353R4200	0.01
Silver	OPS2	1SCA022353R4460	0.01
Grey	OPG2	1SCA022353R4380	0.01
Printed plates for OH 1_ and OH3_ handles. Text: MAIN SWITCH			
Black	OPBS1EN1	1SCA111520R1001	0.01
Yellow	OPYS1EN1	1SCA111530R1001	0.01
Silver	OPSS1EN1	1SCA111525R1001	0.01
Grey	OPGS1EN1	1SCA111526R1001	0.01
Printed plates for OH 2_ handles. Text: MAIN SWITCH			
Black	OPB2EN1	1SCA022400R2070	0.01
Yellow	OPY2EN1	1SCA022400R2740	0.01
Silver	OPS2EN1	1SCA022400R2230	0.01
Grey	OPG2EN1	1SCA022400R2310	0.01

Accessories for non-fusible disconnect switches OT16...160

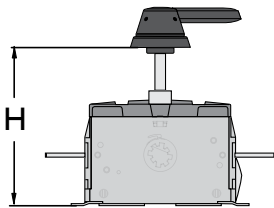
Ordering information for shafts



OXS6X_



OX6X_



OXP_X_

Shafts

Suitable for all the switches in this section, OT16...125F and OT160G.
Shaft diameter 6mm.

Shaft length mm	Mounting depth H mm	Type	Order code	Weight/ unit kg
For selector handles				
85	See dimension drawings	OXS6X85	1SCA101647R1001	0.02
105	-	OXS6X105	1SCA108043R1001	0.02
120	-	OXS6X120	1SCA101654R1001	0.03
130	-	OXS6X130	1SCA101655R1001	0.03
160	-	OXS6X160	1SCA101656R1001	0.04
180	-	OXS6X180	1SCA101659R1001	0.04
250	-	OXS6X250	1SCA101660R1001	0.05
330	-	OXS6X330	1SCA101661R1001	0.05
For round padlockable handles				
60	See dimension drawings	OX6X60	1SCA111459R1001	0.02
85	-	OX6X85	1SCA111274R1001	0.02
105	-	OX6X105	1SCA111930R1001	0.02
115	-	OX6X115	1SCA111931R1001	0.03
130	-	OX6X130	1SCA111460R1001	0.03
155	-	OX6X155	1SCA111275R1001	0.04
200	-	OX6X200	1SCA111932R1001	0.04
300	-	OX6X300	1SCA111933R1001	0.05
For pistol handles				
150	See dimension drawings	EXP6X150	1SCA022295R5600	0.05
170	-	EXP6X170	1SCA108224R1001	0.05
265	-	EXP6X265	1SCA108225R1001	0.08
400	-	EXP6X400	1SCA108226R1001	0.12



OXP6X_



OXP6X_-45

Twisted shafts

Twisted shafts for pistol handles, the shaft position is rotated 45 degrees.
Shaft diameter 6mm.

Shaft length mm	Mounting depth H mm	Type	Order code	Weight/ unit kg
150	See dimension drawings	EXP6X150-45	1SCA022294R4400	0.05
170	-	EXP6X170-45	1SCA108227R1001	0.05
265	-	EXP6X265-45	1SCA108228R1001	0.08
430	-	EXP6X430-45	1SCA022860R8100	0.13

When using long shafts, it is recommended to use shaft support OETLZX58.

Accessories for non-fusible disconnect switches OT16...160

Ordering information for shaft accessories

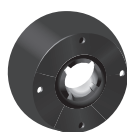


OZG71

Shaft alignment ring

Improves the alignment of the handle

Suitable for handle	Color	Type	Order code	Weight/ unit kg
Selector handles OH_1...3	Black	OHZX11	1SCA022708R3170	0.23
Round padlockable handle OZ371P_	Black	OZG71	1SCA111686R1001	0.05



OHZX14

Extension ring for pistol handles

Improves the alignment of the handle

Suitable for handle	Color	Type	Order code	Weight/ unit kg
OHB_	Black	OHZX14	1SCA022851R6590	0.06



OETLZX58

Shaft support for long shafts

Supporting 6mm shaft longer than 400mm

Suitable for switches	Type	Order code	Weight/ unit kg
OT16...125F	OETLZX58	1SCA022068R8220	0.10

Accessories for non-fusible disconnect switches OT16...160

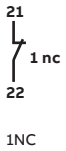
Ordering information for auxiliary contacts



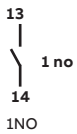
OA1G_



OA2G11



1NC



Auxiliary contact blocks for OT16...125F/FT_ and OT160G_, IP20

Contact numbering according to EN 50013. Snap-on mounting to the side of the switch. $I_{th} = 16$ A, cable cross section max. $2 \times 2.5\text{mm}^2$. Early-break type OA1G10. Early break type auxiliary contacts means that in the switches, the NO aux. contacts break before the main contacts open.

See next pages for performance data, functions and contact timing.

Suitable for switches	Function	Type	Order code	Weight/ unit kg
Mountable on left side, max. 2 pcs				
OT16...125F_, FT_	1NC	OA1G01	1SCA022353R4890	0.03
	1NC	OA1G01AU ¹	1SCA022436R7830	0.03
Mountable on the right side, max. 2 pcs				
OT16...125F_, FT_	1NO	OA1G10	1SCA022353R4970	0.03
	1NO	OA1G10AU ¹	1SCA022436R7910	0.03
Mountable, max. 4 pcs				
OT160G_ and OT160GT_	1NC	OA1G01	1SCA022353R4890	0.03
	1NC	OA1G01AU ¹	1SCA022436R7830	0.03
Mountable, max. 4 pcs				
OT160G_ and OT160GT_	1NO	OA1G10	1SCA022353R4970	0.03
	1NO	OA1G10AU ¹	1SCA022436R7910	0.03
Mountable on both sides, simultaneous function with the main contacts				
OT16...40F_: max. 2NO+2NC, OT63...125F: max. 4NO+4NC ³				
OT16...125F_	1NO+1NC	OA2G11 ²	1SCA022379R8100	0.03
Mountable on both sides, simultaneous function with the main contacts				
Snap-on mounting to the switch, including a grey cover, IP 20, width 1/2 module. OT16...125M: 3-pole switches max 2NO+2NC, 4-pole switches max 1NO+1NC.				
OT16...40M_	1NO+1NC	OA1L11	1SCA022555R9870	0.04
OT63ML_	1NO+1NC	OA2L11	1SCA022424R3190	0.04
OT125M_	1NO+1NC	OA3L11	1SCA022555R9950	0.04

¹Types _AU are gold plated for extremely difficult circumstances and low voltages.

²Not mountable on the same side as the fourth pole.

³Contact numbering: (83) (43) (53) 13 21 (61) (31) (71)
(84) (44) (54) 14 22 (62) (32) (72)

Accessories for non-fusible disconnect switches OT16...160

Ordering information for fourth poles



OTPL125FD



OTPS125FD



OTPS40FDN1



OTPL80FP

Fourth poles, simultaneous function with the main contacts OT16...125

Mountable on the side of the 3-pole switch frame.

Suitable for switches	Type	Order code	Weight/ unit kg
For DIN rail and base mounted switches			
OT16...40F3/F6	OTPS40FPN1 ¹	1SCA105001R1001	0.03
	OTPS40FPN2 ¹	1SCA105000R1001	0.06
OT63...80F3/F6	OTPS80FP	1SCA105461R1001	0.14
OT30...60F3/F6	OTPS60FP	1SCA111009R1001	0.30
OT100...125F3/F6	OTPS125FP	1SCA105099R1001	0.30
OT63ML3	OTPS63MLP	1SCA022530R6580	0.08
OT125M3	OTPS125MP	1SCA022436R9110	0.08
For door mounted switches			
OT16...40FT3	OTPS40FDN1 ¹	1SCA104999R1001	0.06
	OTPS40FDN2 ¹	1SCA104998R1001	0.14
OT63...80FT3	OTPS80FD	1SCA105458R1001	0.30
OT30...60F3/F6	OTPS60FD	1SCA111008R1001	0.30
OT100...125FT3	OTPS125FD	1SCA105096R1001	0.30

Fourth poles, late-break and early-make

Mountable on the side of the switch. There is a time difference between the main poles and the fourth pole.

Suitable for switches	Type	Order code	Weight/ unit kg
For OT switch-disconnectors			
OT16...40F3/F6	OTPL40FP	1SCA105717R1001	0.03
OT63...80F3/F6	OTPL80FP	1SCA105452R1001	0.06
OT100...125F3/F6	OTPL125FP	1SCA105090R1001	0.14
For door mounted switches			
OT16...40FT3	OTPL40FD	1SCA105716R1001	0.03
OT63...80FT3	OTPL80FD	1SCA105451R1001	0.06
OT100...125FT3	OTPL125FD	1SCA105088R1001	0.14

¹N1=On the left side of the switch
N2=On the right side of the switch

Accessories for non-fusible disconnect switches OT16...160

Ordering information for neutral and earth terminals



OTPD40FP



OTPD80FP



OTPD80FD



OTPE40FP



OTPE125FP



OTPE125FD

Fixed neutral

Mountable on the side of the switch

Suitable for switches	Type	Order code	Weight/ unit kg
For base mounted switches			
OT16...40F3/F6	OTPN40FP	1SCA104997R1001	0.03
OT63...80F3/F6	OTPN80FP	1SCA105457R1001	0.06
OT30...60F3/F6	OTPN60FP	1SCA117606R1001	0.14
OT100...125F3/F6	OTPN125FP	1SCA105094R1001	0.14
For door mounted switches			
OT16...40FT3	OTPN40FD	1SCA105718R1001	0.03
OT63...80FT3	OTPN80FD	1SCA105456R1001	0.06
OT30...60F3/F6	OTPN60FD	1SCA111005R1001	0.14
OT100...125FT3	OTPN125FD	1SCA105092R1001	0.14

Detachable neutral

Mountable on the side of the switch

Suitable for switches	Type	Order code	Weight/ unit kg
For DIN rail and base mounted switches			
OT16...40F3/F6	OTPD40FP	1SCA104994R1001	0.03
OT63...80F3/F6	OTPD80FP	1SCA105445R1001	0.06
OT30...60F3/F6	OTPD60FP	1SCA111014R1001	0.14
OT100...125F3/F6	OTPD125FP	1SCA105083R1001	0.14
For door mounted switches			
OT63...80FT3	OTPD80FD	1SCA105444R1001	0.06

Protective earth

Mountable on the side of the switch

Suitable for switches	Type	Order code	Weight/ unit kg
For OT switch-disconnectors			
OT16...40F3/F4/F6	OTPE40FP	1SCA104995R1001	0.03
OT63...80F3/F4/F6	OTPE80FP	1SCA105448R1001	0.06
OT30...60F3/F4/F6	OTPE60FP	1SCA111016R1001	0.14
OT100...125F3/F4/F6	OTPE125FP	1SCA105128R1001	0.14
For door mounted switches			
OT16...40FT_	OTPE40FD	1SCA109884R1001	0.03
OT63...80FT_	OTPE80FD	1SCA105446R1001	0.06
OT30...60FT_	OTPE60FD	1SCA111015R1001	0.14
OT100...125FT_	OTPE125FD	1SCA105698R1001	0.14

Accessories for non-fusible disconnect switches OT16...160

Ordering information for terminal shrouds



OTS40T3



OTS63T3



OTS125T3



OTS125T3P



OTS63T1



OTS125T1



OTS40T1



OTS125T1P



OTS160G1L3



OTS160G1L4

Terminal shrouds for OT switches, snap-on mounting, transparent IP2X

Suitable for switches	Type	Order code	Weight/ unit kg
For 3-pole OT switches			
OT16...40F3, FT3	OTS40T3	1SCA105317R1001	0.01
OT63...80F3, FT3	OTS63T3	1SCA022353R6750	0.01
OT100...125F3, FT3, OT125M3	OTS125T3	1SCA022379R9680	0.01
For 3-pole OT160G_ switches. Suitable also when provided with terminal clamps OZXT2 or OZXT3			
OT160G, GT	OTS160G1L3	1SCA140414R1001	0.02
For 3-pole OT switches, suitable also when provided with terminal clamps OZXL1 or OZXT1			
OT100...125F3	OTS125T3P	1SCA022491R9890	0.01
For 1 to 4-pole OT switches, shroud for single pole and for fourth pole			
OTP_40F_	OTS40T1	1SCA105314R1001	0.01
OTP_80F_	OTS63T1	1SCA022353R6910	0.01
OTP_125F_, OTPS125MP	OTS125T1	1SCA022379R9760	0.01
For 1 to 4-pole OT switches with terminal clamps OZXL1 or OZXT1, shroud for single pole and for fourth pole			
OT100...125F_	OTS125T1P	1SCA022491R9970	0.01
For 4-pole OT160G_ switches. Suitable also when provided with terminal clamps OZXT2 or OZXT3			
OT160G, GT	OTS160G1L4	1SCA140415R1001	0.03

Accessories for non-fusible disconnect switches OT16...160

Ordering information for terminal clamps



OZXT1



OZXT2

Terminal clamp sets for Al- and Cu-cables, insulated versions

Suitable for switches	Cable cross section	Type	Order code	Weight/ unit
	mm ²			kg
OT63...125	16...50 Al, 2.5...50 Cu	OZXT1 ¹	1SCA022469R6310	0.05
OT100...160	16...120 Al/Cu	OZXT2	1SCA022620R7200	0.21
OT100...160	2x(16...50) Al/Cu	OZXT3	1SCA022639R0720	0.21

¹I_n = 63A

More information on Al/Cu terminal clamps, see the catalogue OZX1A GB.

Accessories for non-fusible disconnect switches OT16...160

Ordering information for conversion kits



OWP6D40



OWP6D80



OWP6D125



OTZW8



OWC6D40



OWC6D125



OESAZW1

6 and 8-pole switch mechanism

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit kg
	mm			

Parallel attachment for connecting two 3- or 4-pole switches

The switches work simultaneously. Mounting directly on the top of two switch-disconnectors, snap-on mounting. The switch size is printed on stickers for the different switch sizes. The fourth pole or auxiliary contacts can be mounted on the outer side of the combination.

OT16...40	-	OWP6D40	1SCA022865R4800	0.03
OT63...80	-	OWP6D80	1SCA022865R5010	0.03
OT30...60, OT100...125	-	OWP6D125	1SCA022865R5100	0.03
OT160G	-	OESAZW2	1SCA022078R1600	0.80

Attachment levers for connecting two 3- or 4-pole switches

Attachment levers provided with holes, enabling different shaft distances. The combination of 3 or 4-pole switches can be mounted either horizontally or vertically.

OT16...40	45+(0...12)x15	OTZW8	1SCA022421R7600	0.17
OT63...80	60+(0...11)x15	OTZW8	1SCA022421R7600	0.17
OT30...60, OT100...125	75+(0...10)x15	OTZW8	1SCA022421R7600	0.17

See the table of the handles and shafts included in the conversion kits on the following spread.

Change-over switch mechanism

Two switches (3 or 4-pole) are connected with a mechanism operating between I-O-II -positions. The modular change-over switches can be built by adding a compact snap-on kit on the top of two switch-disconnectors. The kits do not require any additional foot print area, only the height is increased 12mm.

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit kg
	mm			

Change-over kits

OT16...40	-	OWC6D40	1SCA022865R4550	0.03
OT63...80	-	OWC6D80	1SCA022865R4630	0.07
OT30...60, OT100...125	-	OWC6D125	1SCA104494R1001	0.09

Attachment levers

OT16...160	90+(0...10)x15	OESAZW1	1SCA022064R3710	0.78
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See the table of the handles and shafts included in the conversion kits on the following spread.

Accessories for non-fusible disconnect switches OT16...160

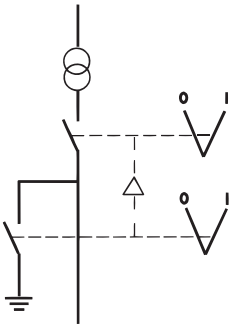
Ordering information for conversion kits



OTZW17



OTZW24



Mechanical interlock

By-pass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to by-pass, for example, a breaker for maintenance. Three 3 or 4-pole switches needed. The mechanism is lockable in O-position.

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit
	mm			kg
OT16...125	Between 1 and 2: $90+(0...6) \times 15$ Between 1 and 3: $90+(0...10) \times 15$	OTZW17	1SCA022387R1620	0.88
OT160G	Between 1 and 2: $210+(0...9) \times 20$ Between 1 and 3: $250+(0...9) \times 20$	OTZW26	1SCA022778R7060	3.30

See the table of the handles and shafts included in the conversion kits on the following spread.

Mechanical interlock mechanism

Prevents one switch from moving to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from moving to OFF-position, if the other is not in ON-position. (UPS-usage, make-before-break).

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit
	mm			kg
OT16...125	100	OTZW24	1SCA022639R5610	0.08
OT160G	-	OTZW10	1SCA022431R5280	1

See the table of the handles and shafts included in the conversion kits on the following spread.

Accessories for non-fusible disconnect switches OT16...160

Ordering information for conversion kit accessories

Shafts and handles for conversion kits

Conversion kit type	Suitable for switches	To be ordered separately		Included in conversion kit delivery		The standard handle / shaft of one of the combined switches can be used	
		Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches							
OWP6D40	OT16...40	x (shaft dia 6mm)	OHBS1A_	-	-	-	-
OWP6D80	OT63...80	x (shaft dia 6mm)	OHBS1A_	-	-	-	-
OWP6D125	OT100...125	x (shaft dia 6mm)	OHBS1A_	-	-	-	-
OWP6D40	OT16...40	x (shaft dia 6mm)	OHB45J6	-	-	-	-
OWP6D80	OT63...80	x (shaft dia 6mm)	OHB45J6	-	-	-	-
OWP6D125	OT100...125	x (shaft dia 6mm)	OHB45J6	-	-	-	-
OTZW8	OT16...125	x	x	-	-	-	-
OESAZW2	OT160	-	-	-	-	x	x
Change-over switches							
OWC6D40	OT16...40	x (shaft dia 6mm)	OHBS2AJE011	-	-	-	-
OWC6D80	OT63...80	x (shaft dia 6mm)	OHBS2AJE011	-	-	-	-
OWC6D125	OT100...125	x (shaft dia 6mm)	OHBS2AJE011	-	-	-	-
OWC6D40	OT16...40	x (shaft dia 6mm)	OHB45J6E311	-	-	-	-
OWC6D80	OT63...80	x (shaft dia 6mm)	OHB45J6E311	-	-	-	-
OWC6D125	OT100...125	x (shaft dia 6mm)	OHB45J6E311	-	-	-	-
OESAZW1	OT160	-	-	-	-	x	x
By-pass switches							
OTZW17	OT16...160	-	-	x (3 pcs)	OHB80J6E011	-	-
Mechanical interlock							
OTZW24	OT16...160	-	-	-	-	x	x

Accessories for non-fusible disconnect switches OT16...160

Ordering information for locking accessories

Locking accessories



SA1

Padlocking adapter

For a padlock with max. 3.5mm bail.

Suitable for switches	Type	Order code	Weight/ unit
			kg
OT63...125	SA1	GJF1 101 903 R000	0.01



OHZX4

Door interlock bracket for pistol handles

Prevents defeating the door interlock.

Suitable for switches	Type	Order code	Weight/ unit
			kg
For pistol handles OH_45...275	OHZX4	1SCA022467R2470	0.03



OETLZW16

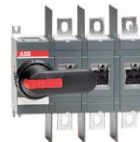
Cam attachment

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Lock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

Suitable for switches	Type	Order code	Weight/ unit
			kg
OT16...160	OETLZW16	1SCA022093R2070	0.17

Non-fusible disconnect switches OT160...4000

Product range



Manual operation					
UL 98 file # E101914, CSA C2.22 No.4	-	OT200U	-	OT400U	OT600U

Switch size	160A	200A	250A	300A	315A	400A	400A	600A	630A	800A
UL/CSA Ampere rating	20A	30A	40A	200A	-	-	400A	600A	-	-



Manual operation					
UL 98 file # E101914, CSA C2.22 No.4	-	OT800U	OT1600U	-	-
	-	OT1200U	OT2000U	-	-

Switch size	800A	1000A	1200A	1250A	1600A	800A	1200A	1600A	2000A	2000A	2500A	3200A	4000A
UL/CSA Ampere rating	800A	-	1200A	-	-	800A	1200A	1600A	2000A	-	-	-	-

Accessories for non-fusible disconnect switches OT160...4000 include:

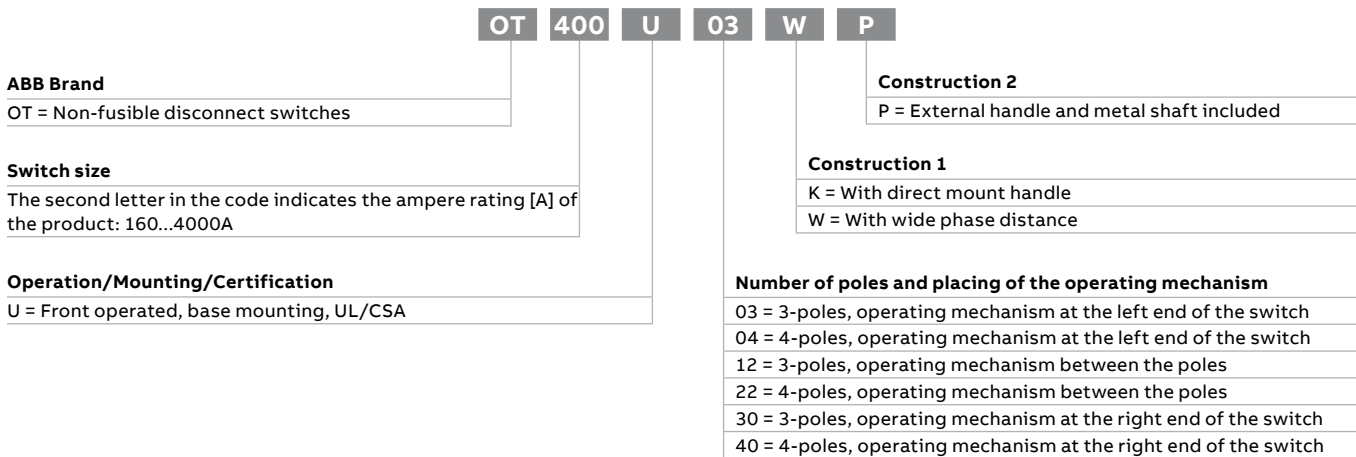
- | | | |
|-----------------------|-------------------------|---------------------------|
| 1. Handles | 5. N terminals | 9. Conversion kits |
| 2. Shafts | 6. Terminal shrouds | 10. Locking accessories |
| 3. Auxiliary contacts | 7. Mounting accessories | 11. Mechanical interlocks |
| 4. Fourth poles | 8. Terminal clamps | 12. Electrical interlocks |

Please note that listed accessories are not automatically included in your order. Ordering information for accessories from page 9-78 through 9-94.

Non-fusible disconnect switches OT160...4000

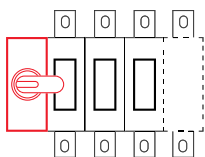
Type designation key

Understanding the type code keys below will help you quickly identify the correct product for your needs.

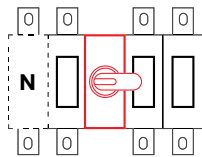


Pole configuration table

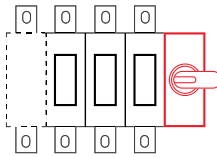
The various placing options of the operating mechanism in relation to the 3 or 4 poles is illustrated below. The operating mechanism may be placed at the end of the switch or between poles.



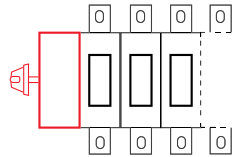
Front operated
Configuration 03, 04



Front operated
Configuration 12, 22



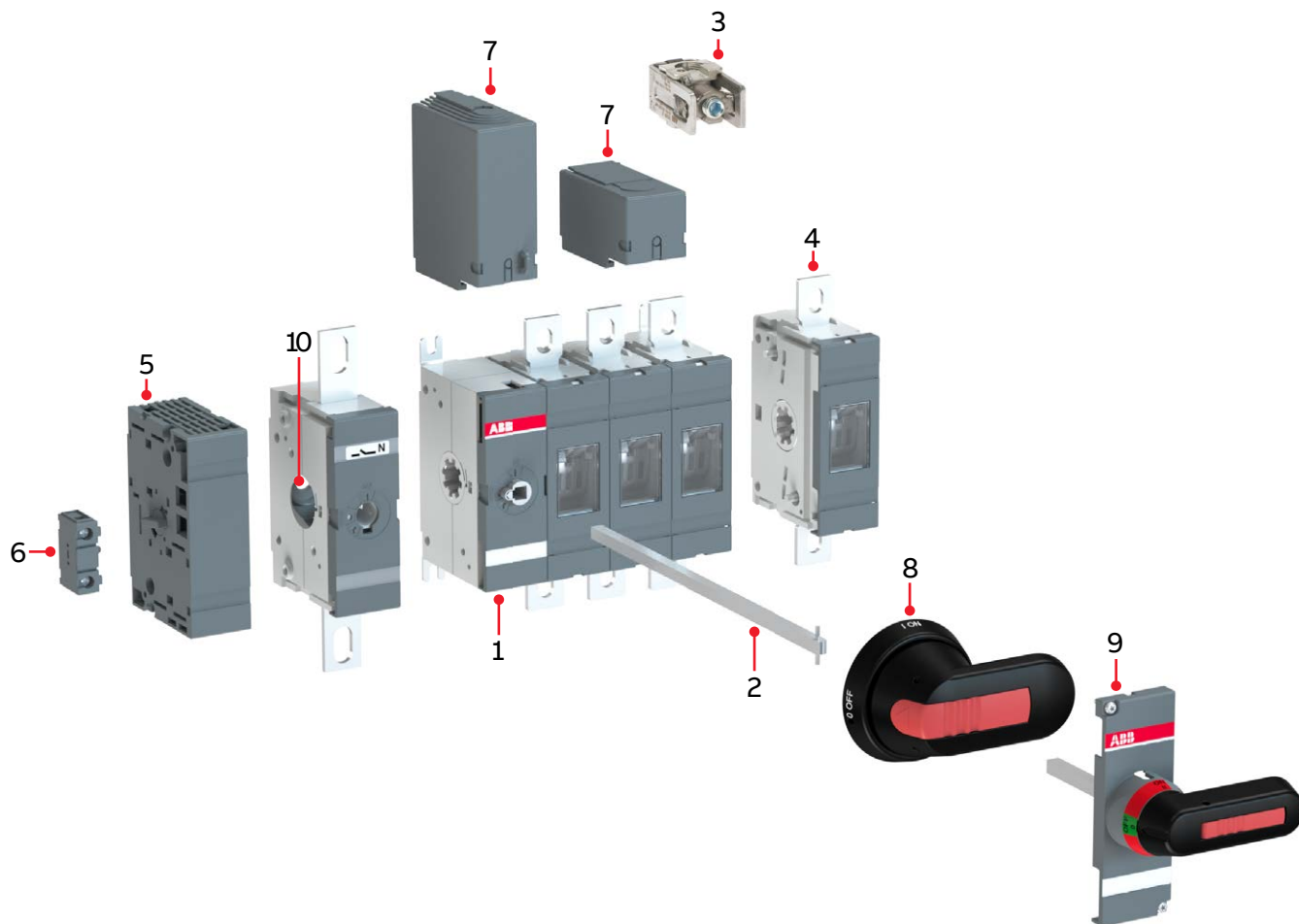
Front operated
Configuration 30, 40



Side operated
Configuration 03, 04

Non-fusible disconnect switches OT160...4000

Selection overview



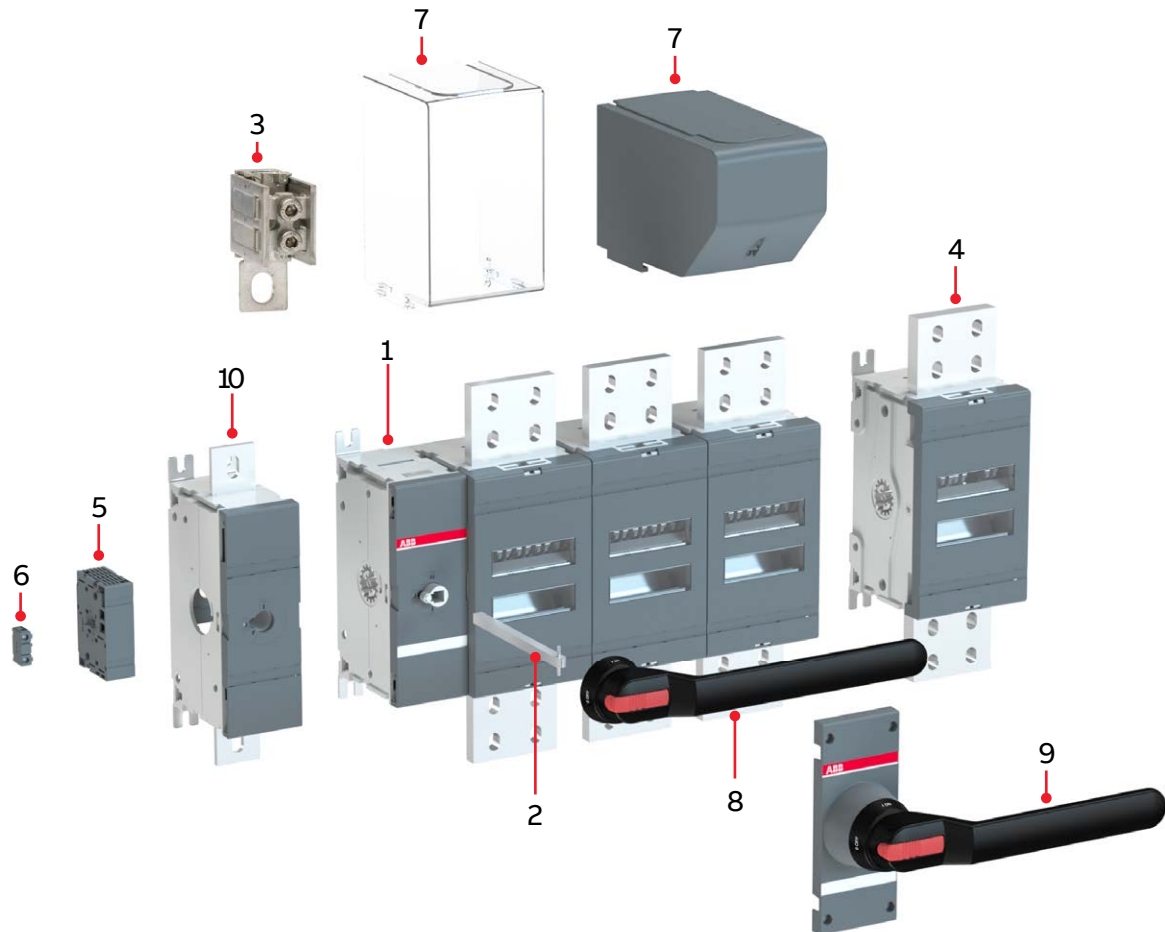
Accessory guide for OT160EV...1600

- | | | |
|------------------------|---------------------------------|-----------------------------|
| 1. Switch-disconnector | 5. Module for auxiliary contact | 9. Direct mounting handle |
| 2. Extended shaft | 6. Auxiliary contact | 10. Detachable neutral link |
| 3. Terminal clamp | 7. Terminal shroud | |
| 4. Fourth pole | 8. Pistol handle | |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT160...4000

Ordering information



Accessory guide for OT2000...4000

- | | | |
|------------------------|---------------------------------|-----------------------------|
| 1. Switch-disconnector | 5. Module for auxiliary contact | 9. Direct mounting handle |
| 2. Extended shaft | 6. Auxiliary contact | 10. Detachable neutral link |
| 3. Terminal clamp | 7. Terminal shroud | |
| 4. Fourth pole | 8. Pistol handle | |

Please note that listed accessories are not automatically included in your order.

Non-fusible disconnect switches OT200...2000, UL

Ordering information for non-fusible disconnect switches



OT200U03P



OT400U03P



OT600U04P



OT800...1200U03P



OT1600...2000U03



OT1600...2000U04

Front operated non-fusible disconnect switches, base mounting, UL/CSA
Handle and shaft need to be ordered separately. Terminal bolts are included.

Number of poles	Ampere rating, 600 VAC A	Horsepower rating 3-phase			Type	Order code	Weight/unit	
		240 VAC HP	480 VAC HP	600 VAC HP			kg	lb
Handle (NEMA 1, 3R, 12, IP65) and shaft have to be ordered separately								
3	200	75	150	200	OT200U03	1SCA022723R0220	1.6	3.5
4	200	75	150	200	OT200U04	1SCA022723R0490	2.0	4.4
3	200	75	150	200	OT200U12	1SCA022752R1890	1.6	3.5
4	200	75	150	200	OT200U22	1SCA022741R8960	2.0	4.4
3	400	125	250	350	OT400U03	1SCA022747R6490	3.0	6.6
4	400	125	250	350	OT400U04	1SCA022748R1060	3.6	7.9
3	400	125	250	350	OT400U12	1SCA022754R6450	3.0	6.6
4	400	125	250	350	OT400U22	1SCA022762R7110	3.6	7.9
3	600	200	450	500	OT600U03	1SCA022798R0730	6.2	13.7
4	600	200	450	500	OT600U04	1SCA022800R1750	7.5	16.5
3	600	200	450	500	OT600U12	1SCA022800R1830	6.2	13.7
4	600	200	450	500	OT600U22	1SCA022800R2130	7.5	16.5
3	800	250	500	500	OT800U03	1SCA105635R1001	18	39.7
4	800	250	500	500	OT800U04	1SCA105636R1001	21	46.3
3	800	250	500	500	OT800U12	1SCA105637R1001	18	39.7
4	800	250	500	500	OT800U22	1SCA105639R1001	21	46.3
3	1200	-	-	-	OT1200U03	1SCA022860R6820	18	39.7
4	1200	-	-	-	OT1200U04	1SCA022860R7040	21	46.3
3	1200	-	-	-	OT1200U12	1SCA105659R1001	18	39.7
4	1200	-	-	-	OT1200U22	1SCA105663R1001	21	46.3
2	1600	-	-	-	OT1600U02	1SCA144197R1001	37	81.6
3	1600	-	-	-	OT1600U03	1SCA144198R1001	52	114.6
4	1600	-	-	-	OT1600U04	1SCA144199R1001	69	152.1
3	1600	-	-	-	OT1600U12	1SCA144200R1001	52	114.6
4	1600	-	-	-	OT1600U13	1SCA144201R1001	69	152.1
4	1600	-	-	-	OT1600U22	1SCA144202R1001	69	152.1
2	2000	-	-	-	OT2000U02	1SCA144203R1001	37	81.6
3	2000	-	-	-	OT2000U03	1SCA117313R1001	52	114.6
4	2000	-	-	-	OT2000U04	1SCA117316R1001	69	152.1
3	2000	-	-	-	OT2000U12	1SCA117332R1001	52	114.6
4	2000	-	-	-	OT2000U13	1SCA117336R1001	69	152.1
4	2000	-	-	-	OT2000U22	1SCA117334R1001	69	152.1

Approvals:
UL 98, CSA 22-2 No. 4

Recommended shafts and handles

Suitable for switches	Shaft	Handle	Terminal bolt kits included
OT200U_	OSP6X210	OHB65J6	M8x25
OT400U_	OSP12X185	OHB95J12	M10x30
OT600U_	OSP12X185	OHB125J12	M12x40
OT800...2000U_	OSP12X280	OHB274J12	M12X60

Non-fusible disconnect switches OT200...2000, UL

Ordering information for non-fusible disconnect switches



OT1600...2000U03P



OT1600...2000U04P

Front operated non-fusible disconnect switches, base mounting, UL/CSA

Including terminal bolts, handle and shaft as standard.

Number of poles	Ampere rating, 600 VAC	Type	Order code	Weight/unit	
	A			kg	lb
Switch with handle and shaft					
2	1600	OT1600U02P	1SCA144206R1001	38	83.8
3	1600	OT1600U03P	1SCA144207R1001	53	116.9
4	1600	OT1600U04P	1SCA144208R1001	70	154.3
3	1600	OT1600U12P	1SCA144209R1001	53	116.9
4	1600	OT1600U13P	1SCA144210R1001	70	154.3
4	1600	OT1600U22P	1SCA144211R1001	70	154.3
2	2000	OT2000U02P	1SCA144212R1001	38	83.8
3	2000	OT2000U03P	1SCA117314R1001	53	116.9
4	2000	OT2000U04P	1SCA117317R1001	70	154.3
3	2000	OT2000U12P	1SCA117333R1001	53	116.9
4	2000	OT2000U13P	1SCA117337R1001	70	154.3
4	2000	OT2000U22P	1SCA117335R1001	70	154.3

Shafts, pistol handles and terminal bolt kits included as standard

Suitable for switches	Shaft	Handle	Terminal bolt kits
OT1600...2000_P	OXp12X280	OHB274J12	M12X60

Non-fusible disconnect switches OT200...2000, UL

Ordering information for side operated non-fusible disconnect switches



OT200US03



OT400US03



OT600US03



OT200US03K



OT400US03K



OT600US03K

Side operated non-fusible disconnect switches, base mounting, UL/CSA

Including terminal bolt kit. In OT_K -types a black ON-OFF direct mount handle as standard. The handle is padlockable in the OFF-position.

Number of poles	Ampere rating	Horsepower rating 3-phase			Type	Order code	Weight/unit	
		240 VAC	480 VAC	600 VAC			kg	lb
		A	HP	HP				
Handle and shaft have to be ordered separately								
3	200	75	150	200	OT200US03	1SCA022870R6290	1.755	3.86
4	200	75	150	200	OT200US04	1SCA022870R6370	2.155	4.74
3	400	125	250	350	OT400US03	1SCA022870R6610	3.06	6.73
4	400	125	250	350	OT400US04	1SCA022870R6700	3.56	7.83
3	600	200	400	500	OT600US03	1SCA022870R7000	6.2	13.64
4	600	200	400	500	OT600US04	1SCA022870R7260	6.2	13.64
Direct mount handle included								
3	200	75	150	200	OT200US03K	1SCA022870R6450	1.855	4.08
4	200	75	150	200	OT200US04K	1SCA022870R6530	2.255	4.96
3	400	125	250	350	OT400US03K	1SCA022870R6880	3.16	6.95
4	400	125	250	350	OT400US04K	1SCA022870R6960	3.66	8.05
3	600	200	400	500	OT600US03K	1SCA022870R7340	6.2	13.64
4	600	200	400	500	OT600US04K	1SCA022870R7420	6.2	13.64

Approvals:
OT200, 400, 600: UL 98, CSA 22-2 No. 4

Recommended shafts and handles

Suitable for switches	Shaft	Handle	Terminal bolts included as standard
OT200US	OSP6X210	OHB65J6E005	M8x25
OT400US_600US	OSP12X185	OHB145J12E005	M10x30

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for handles



OHY_



OHB_



OHG125J12

Pistol handles for base and DIN-rail mounted switches

IP65, NEMA 1, 3R, 12, padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation.

Suitable for switches	Color	Handle length mm	Indication	Type	Order code	Weight/ unit kg
Suitable for shaft diameter 6mm						
OT160EV...250E, OT200U	Black	65	I-0, ON-OFF	OHB65J6	1SCA022380R9660	0.12
	Black	65	I-0, ON-OFF	OHB65J6E20	1SCA022459R4220	0.12
	Red-yellow	65	I-0, ON-OFF	OHY65J6	1SCA022380R9820	0.12
	Red-yellow	65	I-0, ON-OFF	OHY65J6E20	1SCA022501R4700	0.12
	Grey	65	I-0	OHG65J6	1SCA022380R9740	0.12
	Black	80	I-0, ON-OFF	OHB80J6	1SCA022381R0240	0.14
	Red-yellow	80	I-0, ON-OFF	OHY80J6	1SCA022381R0410	0.14
	Grey	80	I-0	OHG80J6	1SCA022381R0320	0.14
	Black	65	Test-OFF-ON/ Test-0-I	OHB65J6T	1SCA022399R8110	0.12
	Red-yellow	65	Test-OFF-ON/ Test-0-I	OHY65J6T	1SCA022456R9540	0.12
Suitable for shaft diameter 12mm						
OT315...400E, OT400U	Black	95	I-0, ON-OFF	OHB95J12	1SCA022381R0830	0.16
	Black	95	I-0, ON-OFF	OHB95J12E20	1SCA022833R3750	0.16
	Red-yellow	95	I-0, ON-OFF	OHY95J12	1SCA022381R1050	0.16
	Grey	95	I-0	OHG95J12	1SCA022381R0910	0.16
	Black	95	Test-OFF-ON/ Test-0-I	OHB95J12T	1SCA022736R1750	0.16
	Red-yellow	95	Test-OFF-ON/ Test-0-I	OHY95J12T	1SCA022736R1910	0.16
OT630...800E, OT600U	Black	125	I-0, ON-OFF	OHB125J12	1SCA022381R1560	0.17
	Black	125	I-0, ON-OFF	OHB125J12E20	1SCA022382R9770	0.17
	Red-yellow	125	I-0, ON-OFF	OHY125J12	1SCA022381R1720	0.17
	Red-yellow	125	I-0, ON-OFF	OHY125J12E20	1SCA022501R5000	0.17
	Grey	125	I-0	OHG125J12	1SCA022381R1640	0.17
	Black	145	I-0, ON-OFF	OHB145J12	1SCA022381R2110	0.17
	Red-yellow	145	I-0, ON-OFF	OHY145J12	1SCA022381R2370	0.17
	Grey	145	I-0	OHG145J12	1SCA022381R2290	0.17
Black	125	Test-OFF-ON/ Test-0-I	OHB125J12T	1SCA022652R2220	0.17	

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.

The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.

The door is interlocked when the non-defeatable handle is padlocked.

Consult us for NEMA 4/4X versions.

E20 Handles padlockable in ON and OFF positions.

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for handles



OHB150/200J12P



OHB274/330J12



OHY200J12P



OHY175J12

Pistol handles

Padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation.

Suitable for switches	Color	Handle length mm	Indication	Type	Order code	Weight/ unit kg
Suitable for shaft diameter 12mm						
IP65, NEMA 1, 3R, 12, double grip						
OT1000...2500E, OT800...1200U	Black	2x150	I-0, ON-OFF	OHB150J12P	1SCA022865R9430	0.17
	Black	2x150	I-0, ON-OFF	OHB150J12PE20	1SCA157054R1001	0.17
	Red-yellow	2x150	I-0, ON-OFF	OHY150J12P	1SCA101586R1001	0.17
	Black	2x200	I-0, ON-OFF	OHB200J12P	1SCA022865R9510	0.40
	Black	2x200	I-0, ON-OFF	OHB200J12PE20	1SCA106288R1001	0.40
	Red-yellow	2x200	I-0, ON-OFF	OHY200J12P	1SCA101587R1001	0.40
	Black	2x200	Test-OFF-ON/ Test-0-I	OHB200J12PT	1SCA106510R1001	0.40
	Red-yellow	2x200	Test-OFF-ON/ Test-0-I	OHY200J12PT	1SCA111512R1001	0.04
NEMA 4X, double grip						
OT1000...2500E, OT800...1200U	Black	2x200	I-0, ON-OFF	OHB200L12P	1SCA111564R1001	0.40
P65, NEMA 1, 3R, 12						
OT1000...4000E, OT800...2000U	Black	274	I-0, ON-OFF	OHB274J12	1SCA115920R1001	0.54
	Black	274	I-0, ON-OFF	OHB274J12PE20	1SCA120919R1001	0.54
	Red-yellow	274	I-0, ON-OFF	OHY274J12	1SCA115919R1001	0.54
	Black	330	I-0, ON-OFF	OHB330J12	1SCA115922R1001	0.58
	Red-yellow	330	I-0, ON-OFF	OHY330J12	1SCA115921R1001	0.58
	Black	274	Test-OFF-ON/ Test-0-I	OHB274J12T	1SCA120250R1001	0.54
	Black	330	Test-OFF-ON/ Test-0-I	OHB330J12T	1SCA120252R1001	0.58

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
 The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.
 The door is interlocked when the non-defeatable handle is padlocked.
 NEMA 4, 4x pistol handles available on request.
 E20 Handles padlockable in ON and OFF positions.

Stainless steel pistol handles

IP66 (NEMA 4X). Material: AISI 316. Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position.



OHM65L6



OHM200L12P

Color	Handle length mm	Indication	Type	Order code	Weight/ unit kg
Suitable for shaft diameter 6mm					
Grey	65	I-O/ON-OFF	OHM65L6	1SCA022739R1070	0.73
Suitable for shaft diameter 12mm					
Grey	125	I-O/ON-OFF	OHM125L12	1SCA022739R1150	0.76
Grey	175	I-O/ON-OFF	OHM175L12	1SCA022739R1230	0.83
Grey	275	I-O/ON-OFF	OHM275L12	1SCA022832R4840	0.96
Grey	2x200	I-O/ON-OFF	OHM200L12P	1SCA104439R1001	2.00

Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
 The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.
 The door is interlocked when the non-defeatable handle is padlocked.

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for handles



OTV400EK



OTV1000EK



OTVY400EK



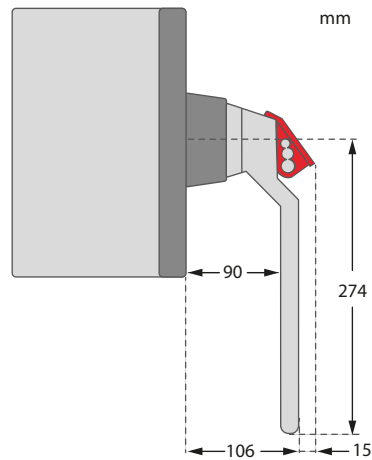
OTV1000EPK

Direct mount handles

Includes a shaft and a mechanism cover. Indication Test-OFF-ON/Test-O-I. Padlockable with three padlocks in OFF-position.

Suitable for switches	Color	Handle length	Type	Order code	Weight/
		mm			unit
					kg
OTV250EK	Black	65	OTV250EK	1SCA022763R2700	0.10
OT160EV...250E, OT200U	Red-yellow	65	OTVY250EK	1SCA022772R7910	0.10
OT315...400E, OT400U	Black	95	OTV400EK	1SCA022763R2960	0.20
	Red-yellow	95	OTVY400EK	1SCA022772R7830	0.20
OT630...800E, OT600U	Black	145	OTV800EK	1SCA022804R6340	0.30
	Red-yellow	145	OTVY800EK	1SCA022810R2780	0.30
OT1000...2500, OT800...2000U	Black	274	OTV1000EK	1SCA106608R1001	0.75
OT1000...2500, OT800...2000U	Black	2x200	OTV1000EPK	1SCA121085R1001	0.90
OT3200...4000	Black	274	OTV3200EK	1SCA144572R1001	0.75

OTV1000EK dimensions

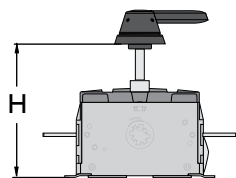


Accessories for non-fusible disconnect switches OT160...4000

Ordering information for shafts



OX P6X_



OX P_X_

Shafts for pistol handles

For switches	Shaft length mm	Mounting depth H mm	Type	Order code	Weight/ unit kg
Shaft diameter 6mm					
OT160EV...250E, OT200U ¹	130	109...174	OX P6X130	1SCA022057R0570	0.04
	150	129...194	OX P6X150	1SCA022295R5600	0.05
	161	140...205	OX P6X161	1SCA022067R1760	0.05
	210	189...254	OX P6X210	1SCA022295R6080	0.06
	290	269...334	OX P6X290	1SCA022042R6370	0.08
Shaft diameter 12mm					
OT315...400E, OT400U	166	146...226	OX P12X166	1SCA022325R7100	0.20
	185	165...245	OX P12X185	1SCA022325R6710	0.20
	250	230...310	OX P12X250	1SCA022325R6980	0.28
	280	260...340	OX P12X280	1SCA022137R5140	0.30
	325	305...385	OX P12X325	1SCA022042R5810	0.36
	395	375...455	OX P12X395	1SCA022042R5990	0.43
	465	445...525	OX P12X465	1SCA022042R6020	0.51
Shaft diameter 12mm					
OT630...800E, OT600U	185	165...245	OX P12X185	1SCA022325R6710	0.20
	250	230...345	OX P12X250	1SCA022325R6980	0.28
	280	260...375	OX P12X280	1SCA022137R5140	0.30
	325	305...420	OX P12X325	1SCA022042R5810	0.36
	395	375...490	OX P12X395	1SCA022042R5990	0.43
	465	445...560	OX P12X465	1SCA022042R6020	0.51
Shaft diameter 12mm					
OT1000...2500E, OT800...1200U ²	250	221...350	OX P12X250	1SCA022325R6980	0.28
	280	251...380	OX P12X280	1SCA022137R5140	0.30
	325	296...425	OX P12X325	1SCA022042R5810	0.36
	395	366...495	OX P12X395	1SCA022042R5990	0.43
	465	436...565	OX P12X465	1SCA022042R6020	0.51
Shaft diameter 12mm					
OT3200...4000E, OT1600...200U	280	251...380	OX P12X280	1SCA022137R5140	0.30
	325	296...425	OX P12X325	1SCA022042R5810	0.36
	395	366...495	OX P12X395	1SCA022042R5990	0.43
	465	436...565	OX P12X465	1SCA022042R6020	0.51
	535	506...635	OX P12X535	1SCA022042R6110	0.59

¹Longer shafts on request

²Wide versions OT1000-2500W_ with shafts over 280mm, shaft tube OXT20X210X must be used, see page 9-83.

Accessories for non-fusible disconnect switches OT160...4000

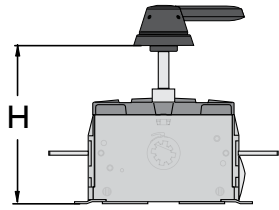
Ordering information for shafts



OXP6X_-45



OXP12X_-45



OXP_X_

Twisted shafts for pistol handles

Twisted shafts for pistol handles. Shaft is rotated 45 degrees.

For switches	Shaft length	Mounting depth H	Type	Order code	Weight/ unit
	mm	mm			kg
Shaft diameter 6mm					
OT160EV...250E, OT200U	130	109...174	OSP6X130-45	1SCA022355R9110	0.04
	150	129...194	OSP6X150-45	1SCA022294R4400	0.05
	210	189...254	OSP6X210-45	1SCA022294R4230	0.06
	290	269...334	OSP6X290-45	1SCA022304R4290	0.08
Shaft diameter 12mm					
OT315...800E, OT400...600U	250	230...310	OSP12X250-45	1SCA022293R9400	0.28
	280	260...340	OSP12X280-45	1SCA022382R0800	0.30
	325	305...385	OSP12X325-45	1SCA022304R4450	0.36
	395	445...525	OSP12X395-45	1SCA022749R0640	0.43
	465	439...519	OSP12X465-45	1SCA022423R1770	0.51
	535	515...595	OSP12X535-45	1SCA022723R2940	0.59
Shaft diameter 12mm					
OT1000...2500E, OT800...1200U	250	226...355	OSP12X250-45	1SCA022293R9400	0.28
	280	256...385	OSP12X280-45	1SCA022382R0800	0.30
	325	301...430	OSP12X325-45	1SCA022304R4450	0.36
	395	371...500	OSP12X395-45	1SCA022749R0640	0.43
	465	441...570	OSP12X465-45	1SCA022423R1770	0.51
	535	511...640	OSP12X535-45	1SCA022723R2940	0.59
Shaft diameter 12mm					
OT3200...4000E, OT1600...200U	280	256...385	OSP12X280-45	1SCA022382R0800	0.30
	325	301...430	OSP12X325-45	1SCA022304R4450	0.36
	395	371...500	OSP12X395-45	1SCA022749R0640	0.43
	465	441...570	OSP12X465-45	1SCA022423R1770	0.51
	535	511...640	OSP12X535-45	1SCA022723R2940	0.59

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for shaft accessories



OHZX10

Shaft alignment ring

Improves the alignment between handle and shaft.

Suitable for handle	Color	Type	Order code	Weight/ unit kg
For pistol handles OH_65...275J6...12	Black	OHZX10	1SCA022661R3610	0.23



OHZX14

Extension ring for pistol handles

Improves the handle operation by increasing the distance between the operating handle and the panel.

Suitable for handle	Color	Type	Order code	Weight/ unit kg
OHB_	Black	OHZX14	1SCA022851R6590	0.06



OXT20X210X

Shaft support for long shafts

Supporting 12mm shafts longer than 280mm.

Suitable for switches	Type	Order code	Weight/ unit kg
OT1000...4000	OXT20X210X	1SCA103684R1001	1.50

Overturn protection

The accessory package contains locking features that restrict operation more than 90 degree.

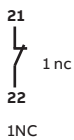
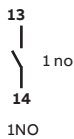
Suitable for shafts	Type	Order code	Weight/ unit kg
OXP12X_	OHZX19	1SCA157090R1001	0.25

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for auxiliary contacts



OA1G10, OA3G01



OEA28

Video: Auxiliary contacts installation



<https://www.youtube.com/watch?v=wZY428-W5sc&feature=youtu.be>

Video: Installation of OEA28 – Module for auxiliary contacts



<https://www.youtube.com/watch?v=j-4wb659WZE&feature=youtu.be>

Auxiliary contact blocks for OT160EV...4000, IP20

Contact numbering according to EN 50013. Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.

In types with auxiliary contacts mountable under the mechanism cover, the "test" contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST-position (45° over the OFF-position). The "test indication" contacts operate only when the handle is turned to TEST-position. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, "test" or "test indication" contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place (see mounting instructions). In order to activate the "test" and "test indication" features a handle with test function is required. The test contacts can be used as standard auxiliary contacts as well.

See next pages for performance data, functions and contact timing.

Suitable for switches	Function	Type	Order code	Weight/ unit kg
Mounting on the left side of the switch				
Max. 8 auxiliary contact blocks with the OEA28 module				
OT160EV...4000, OT200...2000U	1NO	OA1G10	1SCA022353R4970	0.03
	1NO	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC	OA3G01	1SCA022456R7410	0.03
	1NC	OA3G01AU ¹	1SCA022819R5260	0.03
Mounting under the mechanism cover				
Max. 4 test contacts or 2 test contacts + 2 test indication contacts				
OT160EV...250E, OT200U	1NO, early break	OA1G10	1SCA022353R4970	0.03
	1NO, early break	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC, early make	OA3G01	1SCA022456R7410	0.03
	1NC, early make	OA3G01AU ¹	1SCA022819R5260	0.03
Max. 4 test contacts + 4 test indication contacts				
Switches with _K handle: 2+4 auxiliary contacts with _P handle: 4+4 auxiliary contacts²				
OT315...800E, OT400...600U	1NO, early break	OA1G10	1SCA022353R4970	0.03
	1NO, early break	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC, early make	OA3G01	1SCA022456R7410	0.03
	1NC, early make	OA3G01AU ¹	1SCA022819R5260	0.03
Max 4 test indication contacts + 6 test contacts + 2 early operation test contacts				
OT1000...4000E, OT800...2000U	1NO, early break	OA1G10	1SCA022353R4970	0.03
	1NO, early break	OA1G10AU ¹	1SCA022436R7910	0.03
	1NC, early make	OA3G01	1SCA022456R7410	0.03
	1NC, early make	OA3G01AU ¹	1SCA022819R5260	0.03

¹Types _AU are gold plated for extremely difficult circumstances and low voltages.

²See optional handles in page 9-78 through 9-80.

Module for auxiliary contacts with OT160EV...4000

Screw mounting to the left side of the switch.

Suitable for switches	Type	Order code	Weight/ unit kg
OT160EV...4000	OEA28	1SCA022714R8810	0.04

Does not fit side operated switches.

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for fourth poles and neutral terminals



OXN250



OXN400



OXN1250T

Neutral pole

Suitable for switches UL, including phase barrier	Type	Order code	Weight/ unit kg
OT200U	OTZ200U	1SCA151734R1001	0.35
OT400U	OTZ400U	1SCA151735R1001	0.59
OT600U	OTZ600U	1SCA151736R1001	1.70
OT800...1200U	OTZ1200U	1SCA151733R1001	4.54

Neutral links

Detachable, mountable separately to the base plate.

Suitable for switches	I_{th}	Type	Order code	Weight/ unit kg
	A			
OT160EV...250E, OT200U	250	OXN250	1SCA022752R9950	0.26
OT315...400E, OT400U	400	OXN400	1SCA022770R3060	0.70
OT630...800E, OT600U	800	OXN800T	1SCA022829R0840	0.96
OT1000...4000E	1250	OXN1250T	1SCA104162R1001	2.20

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for terminal shrouds



OTS400G1S



OTS800G1S



OTS1600G1L



OTS1600G1S



OTS2500G1L



OTS2500G1S



OTS4000G1S/3



OTS4000G1S/4

Terminal shrouds for OT switches, snap-on mounting, grey

Pack of single pole shrouds, IP3X. Transparent shrouds available on request.

Suitable for switches	Dimension Height	Type	Order code	Units/type	Weight/type
	mm			pcs	kg
For 3-pole OT switches					
OT160EV...250E, OT200U	83	OTS250G1L/3 ¹	1SCA022731R8150	3	0.09
	35.5	OTS250G1S/3 ¹	1SCA022731R8310	3	0.06
OT315...400E, OT400U	51.5	OTS400G1S/3 ¹	1SCA022736R9060	3	0.15
	126	OTS400G1L/3 ¹	1SCA022736R8840	3	0.09
OT630...800E, OT600U	138.6	OTS800G1L/3 ¹	1SCA022776R7890	3	0.32
	61.5	OTS800G1S/3 ¹	1SCA022776R8190	3	0.17
OT1000...1600E, OT800...1200U	158.5	OTS1600G1L/3 ¹	1SCA022871R9510	3	0.60
	96.9	OTS1600G1S/3 ¹	1SCA022871R9600	3	0.40
OT2000...2500E	168	OTS2500G1L/3 ¹	1SCA107261R1001	3	1.00
	107.5	OTS2500G1S/3 ¹	1SCA107260R1001	3	0.50
OT3200...4000E	233	OTS4000G1L/3 ¹	1SCA129042R1001	3	1.20
	156.5	OTS4000G1S/3 ¹	1SCA129044R1001	3	1.00
For 4-pole OT switches					
OT160EV...250E, OT200U	83	OTS250G1L/4 ¹	1SCA022731R8230	4	0.12
	35.5	OTS250G1S/4 ¹	1SCA022731R8400	4	0.08
OT315...400E, OT400U	51.5	OTS400G1S/4 ¹	1SCA022736R9650	4	0.20
	126	OTS400G1L/4 ¹	1SCA022736R9490	4	0.12
OT630...800E, OT600U	138.6	OTS800G1L/4 ¹	1SCA022776R7970	4	0.42
	61.5	OTS800G1S/4 ¹	1SCA022776R8270	4	0.26
OT1000...1600E, OT800...1200U	158.5	OTS1600G1L/4 ¹	1SCA022871R9780	4	0.80
	96.9	OTS1600G1S/4 ¹	1SCA022871R9860	4	0.50
OT2000...2500E	168	OTS2500G1L/4 ¹	1SCA107262R1001	4	1.30
	107.5	OTS2500G1S/4 ¹	1SCA107271R1001	4	0.70
OT3200...4000E	233	OTS4000G1L/4 ¹	1SCA129043R1001	4	1.40
	156.5	OTS4000G1S/4 ¹	1SCA129045R1001	4	1.60

¹L= long type, S= short type

Shrouds for terminal clamps

Snap-on mounting, transparent plastic, IP2X.

Suitable for terminal clamps	Type	Order code	Units/type	Weight/unit
			pcs	kg
OZXB2, 2L	OZXB2K	1SCA022264R0010	3	0.05
OZXB3, 4	OZXB3K	1SCA022264R0440	3	0.20
OZXB5, 6	OZXB4K	1SCA022199R2850	3	0.24
OZXB7, 7L	OZXB5K	1SCA022283R8040	3	0.13

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for mounting accessories



OTB_

Phase separators

Grey plastic plate for maintaining 1 in/25.44mm clearance between the phases without terminal shrouds. Snap-on mounting.

Suitable for switches	Type	Order code	Units/ type	Weight/ type
			pcs	kg
OT600U, OT630...800E, 3- and 4-pole	OTB800/6	1SCA022821R7760	6	0.35
OT1000...2500, 3- and 4-pole	OTB1600/6	1SCA100768R1001	6	0.50
OT3200...4000, 3- and 4-pole	OTB4000/6	1SCA129040R1001	6	0.80
OT1600...2000U, 3- and 4-pole	OTB1600/6C	1SCA104661R1001	12	0.74



PB200 high

Phase barriers

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OT200...800 switch disconnectors. 3-pole switch disconnectors need 4 barriers and 4-pole switch disconnectors need 6 barriers for full protection.

Suitable for switches	Number of poles	Height	Cutting width of the phase barrier	Type	Order code	Units/ type	Weight/ type
		mm	mm			pcs	kg
OT160EV...250	3	100	55	PB100 low	1SDA054970R1	4	
	3	200	55	PB200 high	1SDA054972R1	4	
	4	100	55	PB100 low	1SDA054971R1	6	
	4	200	55	PB200 high	1SDA054973R1	6	
OT315...400	3	100	67	PB100 low	1SDA054970R1	4	
	3	200	67	PB200 high	1SDA054972R1	4	
	4	100	67	PB100 low	1SDA054971R1	6	
	4	200	67	PB200 high	1SDA054973R1	6	
OT600...800	3	100	90	PB100 low	1SDA054970R1	4	
	3	200	90	PB200 high	1SDA054972R1	4	
	4	100	90	PB100 low	1SDA054971R1	6	
	4	200	90	PB200 high	1SDA054973R1	6	



PB100 low



OSGZD1

DIN-rail mounting kit

For mounting a switch fuse into 35mm DIN-rail

Suitable for switches	Type	Order code	Units/ type	Weight/ type
			pcs	kg
OT160EV...250E	OSGZD1	1SCA115688R1001	1	0.20

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for terminal clamps



Terminal clamp sets for Al- and Cu-cables

Suitable for switches	Cable cross section mm ²	Suitable shroud type	Terminal clamp type	Order code	Units/ type	Weight/ unit	
					pcs	kg	
OZXB type Al/Cu connectors made of stainless steel							
OT160EV...250E, OT200U	10...70	OTS250_L	OZXB1L	1SCA022169R2030	3	0.15	
	10...70	OTS250_L	OZXB1L/1	1SCA022194R0030	1	0.05	
	25...120	OZXB2K	OZXB2	1SCA022119R7610	3	0.34	
	25...120	OZXB2K	OZXB2/1	1SCA022194R0200	1	0.12	
	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.43	
	25...120	OZXB2K	OZXB2L/1	1SCA022194R0460	1	0.15	
	95...185	OTS250_L	OZXB8	1SCA022744R1510	3	0.50	
	95...185	OTS250_L	OZXB8/1	1SCA022744R1600	1	0.15	
	95...240	OTS250_L	OZXB9	1SCA022750R3210	3	0.50	
	95...240	OTS250_L	OZXB9/1	1SCA022750R3300	1	0.14	
	OT315...400E, OT400U	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.43
		25...120	OZXB2K	OZXB2L/1	1SCA022194R0460	1	0.15
95...185		OZXB3K	OZXB3	1SCA022136R8100	3	1.28	
95...185		OZXB3K	OZXB3/1	1SCA022194R0620	1	0.13	
2x(95...185)		OZXB3K	OZXB4	1SCA022137R4760	3	1.71	
2x(95...185)		OZXB3K	OZXB4/1	1SCA022194R0890	1	0.60	
120...240		OZXB5K	OZXB7	1SCA022185R0040	3	1.00	
120...240		OZXB5K	OZXB7/1	1SCA022194R1430	1	0.34	
120...240		OZXB5K	OZXB7L	1SCA022185R7130	3	1.20	
120...240		OZXB5K	OZXB7L/1	1SCA022194R1600	1	0.39	
OT630...800E, OT600U		95...185	OTS400_L	OZXB8	1SCA022744R1510	3	0.50
		95...185	OTS400_L	OZXB8/1	1SCA022744R1600	1	0.15
	95...240	OTS400_L	OZXB9	1SCA022750R3210	3	0.50	
	95...240	OTS400_L	OZXB9/1	1SCA022750R3300	1	0.14	
	120...300	OZXB4K	OZXB5	1SCA022137R2470	3	2.22	
	120...300	OZXB4K	OZXB5/1	1SCA022194R1010	1	0.80	
OT1000...1600E, OT800...1200U	2x(120...300)	OZXB4K	OZXB6	1SCA022137R4920	3	3.03	
	2x(120...300)	OZXB4K	OZXB6/1	1SCA022194R1270	1	1.00	
	95...185	OTS1600_L	OZXB3	1SCA022136R8100	3	1.28	
	95...185	OTS1600_L	OZXB3/1	1SCA022194R0620	1	0.13	
	2x(95...185)	OTS1600_L	OZXB4	1SCA022137R4760	3	1.71	
	2x(95...185)	OTS1600_L	OZXB4/1	1SCA022194R0890	1	0.60	
	120...300	OTS1600_L	OZXB5	1SCA022137R2470	3	2.22	
	120...300	OTS1600_L	OZXB5/1	1SCA022194R1010	1	0.80	
	2x(120...300)	OTS1600_L	OZXB6	1SCA022137R4920	3	3.03	
	2x(120...300)	OTS1600_L	OZXB6/1	1SCA022194R1270	1	1.00	
120...240	OTS1600_L	OZXB7L	1SCA022185R7130	3	1.20		
120...240	OTS1600_L	OZXB7L/1	1SCA022194R1600	1	0.39		

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for terminal lugs



Terminal lug kits for Al- and Cu-cables for UL/CSA disconnect switches

One kit includes 6 pcs.

Suitable for switches	Cable cross section mm ²	Type	Tightening torque lb.in/Nm	Weight/unit	
				kg	in
OT200U_	AWG 4-300MCM	OZXA-200	275/31.1	0.04	0.09
OT400U_	AWG 2-600MCM	OZXA-400	375/42.4	0.05	0.12
OT600...800U_	2 X AWG 2-600MCM	OZXA-800	500/56.5	0.21	0.45
OT800U, OT1200...2000U_	4 X AWG 2-600MCM	OZXA-1200	500/56.5	0.45	0.98

For ordering, please consult us.

Technical data for terminal lugs

Description	
UL approval file	E6207
Temperature Rating, °C	75
Wire tightening Type of tool	Allen (Hex) wrench
Lug mounting	Bolt & nut mounting
AWG (American Wire Gauge) wire class	B.C

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for terminal clamps



OESAZW2

6 and 8-pole switch mechanism

Attachment levers for connecting two 3- or 4-pole switches provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically. OESAZW2 includes also OHB145J12.

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit
	mm			kg
OT160G, OT160EV...250E, OT200U	45+(0...13)x15	OESAZW2	1SCA022078R1600	0.80
OT315...800E, OT400...600U	60+(0...19)x20	OETLZW9	1SCA022061R3300	1.10



OTZW25

Change-over switch mechanism

Attachment levers. Two switches connected with a mechanism operating into I-O-II -positions. Two 3 or 4-pole switches needed.

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit
	mm			kg
OT160G, OT160EV...250E, OT200U	210+(0...18)x20	OTZW25	1SCA022778R6920	2.80
OT315...400E, OT400U	210+(0...11)x20	OETLZW11	1SCA022078R0030	3.00
OT630...800E, OT600U	210+(0...20)x20	OETLZW12	1SCA022078R0200	4.60

See the table of the handles and shafts included in the conversion kits on next spread.



OTZW26

By-pass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to by-pass, for example, a breaker for maintenance. Three 3 or 4-pole switches needed.

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit
	mm			kg
OT160G, OT160EV...250E, OT200U	Between 1 and 2: 210+(0...9)x20 Between 1 and 3: 250+(0...9)x20	OTZW26	1SCA022778R7060	3.30
OT315...800E, OT400...600U	Between 1 and 2: 210+(0...18)x20 Between 1 and 3: 250+(0...18)x20	OETLZW13	1SCA022078R0460	4.00

Mechanical interlock mechanism

Prevents one switch from moving to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from moving to OFF-position, if the other is not in ON-position. (UPS-usage, make-before-break).

Suitable for switches	Shaft distance	Type	Order code	Weight/ unit
	mm			kg
OT160EV...250E, OT200U	190	OTZW10	1SCA022431R5280	0.40
OT315...400E, OT400U	250	OETLZW14	1SCA022077R3410	0.70
OT315...800E, OT400...600U	300	OETLZW3	1SCA022049R0380	0.80
OT315...4000E, OT400...2000U	500	OETLZW15	1SCA022081R9340	1.24

See the table of the handles and shafts included in the conversion kits on next spread.



OETLZW14

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for conversion kit accessories



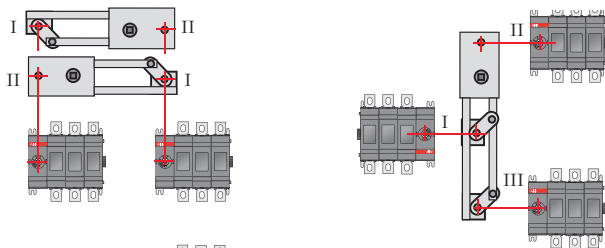
OTZW25



OTZW26

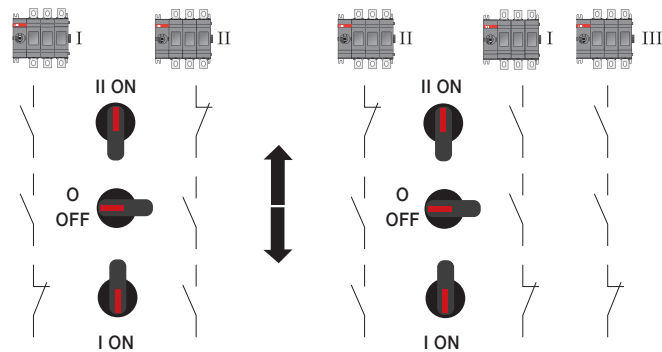
Shafts and handles for conversion kits

Conversion kit type	To be ordered separately		Included in conversion kit delivery		The standard handle / shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches						
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OESAZW9	-	-	-	-	x	x
Change-over switches						
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
OETLZW11	-	-	x (2 pcs)	OHB145J12E011	-	-
OETLZW12	-	-	x (2 pcs)	YASDA21	-	-
By-pass switches						
OTZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
OETLZW13	-	-	x (3 pcs)	YASDA6	-	-
Mechanical interlock						
OTZW10	-	-	-	-	x	x
OETLZW14	-	-	-	-	x	x
OETLZW3	-	-	-	-	x	x
OETLZW15	-	-	-	-	x	x



Bypass switches

Change-over switches



Change-over switches

Bypass switches

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for terminal clamps



OHZX4

Locking accessories

Door interlock bracket for pistol handles

Prevents defeating the door interlock.

Suitable for switches	Type	Order code	Weight/ unit kg
For pistol handles OH_45...275	OHZX4	1SCA022467R2470	0.03



OETLZW5

Cam attachment

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Lock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

Suitable for switches	Type	Order code	Weight/ unit kg
OT315...4000	OETLZW5	1SCA022052R3900	0.14

See the table of the handles and shafts included in the conversion kits on previous page.

Shaft locking kit

Fixing the shaft to the switch mechanism. The screw is included in the package.

Suitable for switches	Type	Order code	pcs
OT160G, OT160EV...250E, OT200U	OTZS2/B10	1SCA126043R1001	10
OT315E...4000E, OT400U...2000U	OZX1	1SCA105708R1001	10

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for mechanical interlocks



OTZT1A



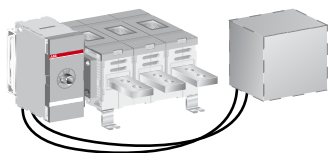
OTZT2A



OTZT3A



OTZL4



OT_EM_ + OTZL4

OT switch + OTZL4 or Emax, T7

Mechanism interlock kits and electrical interlocks

OT160EV...4000 switch-disconnectors can be interlocked in the OFF-position using padlocks or a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8mm.

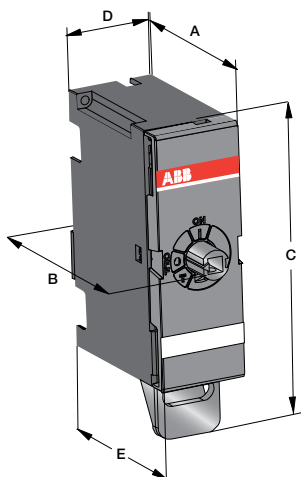
Suitable for switches	Type	Order code	Weight/unit kg
Interlocking in the OFF-position			
OT200U, OT160EV...250	OTZT1A	1SCA106522R1001	0.21
OT400U, OT315...400E	OTZT2A	1SCA106523R1001	0.57
OT600U, OT630...800E	OTZT3A	1SCA106525R1001	0.75
OT800U, OT1200U, OT1000...4000	OTZT4A	1SCA106526R1001	1.15
Interlocking in the OFF- and ON-positions			
OT200U, OT160EV...250	OTZT1L	1SCA106527R1001	0.21
OT400U, OT315...400E	OTZT2L	1SCA106529R1001	0.57
OT600U, OT630...800E	OTZT3L	1SCA106530R1001	0.75
OT800U, OT1200U, OT1000...4000	OTZT4L	1SCA106531R1001	1.15

Mechanical interlock between OT earthing switch and OT1000...2500 switch-disconnector or E-max / T7 breaker

The operation of both the earthing switch and the switch-disconnector / breaker into ON-position at the same time is mechanically prevented by using two cables between the earthing switch and main switch or breaker. Cable length 1370mm.

Suitable for switches	Description	Type	Order code	Weight/unit kg
Mechanical interlock kit for earthing switches type_EM				
OT1000...2500EM		OTZL4	1SCA116554R1001	0.5
Wire rope				
OT1000...2500EM, E-max/T7	Including 2 pcs 1370mm wire rope	-	1SDA062127R1	0.2

Electrical and mechanical interlock OTZT_



	OTZT1_	OTZT2_	OTZT3_	OTZT4_
	mm	mm	mm	mm
A	69	81	86	88
B	82	102	110	110
C	122	152	201	258
D	35	52	65	84
E	73	91	98	95

M00350/OTZT1-4_ A

Accessories for non-fusible disconnect switches OT160...4000

Ordering information for electrical interlocks



OTZM4A

Electrical interlock kit

Suitable for switches	Description	Type	Order code	Weight/ unit kg
OT1000...2500E	Locking in OFF-position	OTZM4A	1SCA118510R1001	0.85
	Locking in OFF- and ⊥-position	OTZM4L	1SCA118511R1001	0.85

Coils for OTZT_ and OTZM_ electrical interlocks

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF-position or both in the OFF- and ON-positions. The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON-position and switches with L-type interlocks cannot be turned to the ON- or OFF-positions.

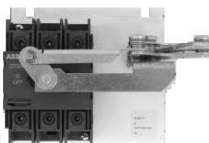


PDAL2

Suitable for switches	Type	Order code	Weight/ unit kg
AC coils			
110 VAC, 50 Hz	PDAL2/110AC50Hz	1SCA106543R1001	0.15
110 VAC, 60 Hz	PDAL2/110AC60Hz	1SCA107100R1001	0.15
120 VAC, 60 Hz	PDAL2/120AC60Hz	1SCA111353R1001	0.15
208 VAC, 60 Hz	PDAL2/208AC60Hz	1SCA107101R1001	0.15
230 VAC, 50 Hz	PDAL2/230AC50Hz	1SCA107102R1001	0.15
240 VAC, 60 Hz	PDAL2/240AC60Hz	1SCA111356R1001	0.15
DC coils			
24 VDC	PDAL2/24DC	1SCA106542R1001	0.15
48 VDC	PDAL2/48DC	1SCA107103R1001	0.15
110 VDC	PDAL2/110DC	1SCA107105R1001	0.15
125 VDC	PDAL2/125DC	1SCA111338R1001	0.15
220 VDC	PDAL2/220DC	1SCA112503R1001	0.15
Technical data for the coil			
Operating voltage	U = 0.8...1.1 x Un		
Operating ambient temperature	-40° C...+65° C		
Power consumption	with AC 6.5 W with DC 9 VA		

Flange handles for non-fusible disconnect switches 30...1200A

Ordering information for flange handles



Disconnect assembly
OT_F3-F



Handle
DSFHN_



Shaft
OTFS_

ABB's flange operated disconnect switches comply with NFPA79 requirements. The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version provides flexible depth and mounting location depending on the length of the cable. Cables are available in lengths up to 120 inches.

Shaft operated 30...100A

For a complete assembly, please select one of each.

Flange operated non-fusible disconnects (shaft) 3-pole

UL general purpose amp rating (A)	Order number
30	OT30F3-F
60	OT60F3-F
100	OT100F3-F

Flange handle

NEMA rating	Marking	Defeatable	Padlockable	Order number
1/12/3R	OFF/ON	No	Yes	DSFHN-HS12
4/4X	OFF/ON	No	Yes	DSFHN-HS4

Shafts

For use with	Maximum enclosure depth (in.)	Order number
OT30...100F3-F	16	OTFS-16
	24	OTFS-24

Flange handles for non-fusible disconnect switches 30...1200A

Ordering information for flange handles



Switch



Handle



Cable



Operating mechanism¹



Lug kit²

Cable operated 30...1200A

For a complete assembly, please select one of each.

Flange operated non-fusible disconnects (cable) 3-pole

UL general purpose amp rating (A)	Disconnect switch order number	Mechanism order number
30	OT30F3	MKCS1
60	OT60F3	MKCS1
100	OT100F3	MKCS1
200	OT200U30	MKCS4
400	OT400U30-FC	included
600	OT600U30-FC	included
800	OT800U30-FC	included
1200	OT1200U30-FC	included

Flange handle

For use with	Order number	
	NEMA rating 1/12/3R	NEMA rating 4/4X
OT30...100F3, OT200U30	OHF1C12	OHF1C4
OT400...600U30-FC	K7FCH	K7FCH4
OT800...1200U30-FC	K9FCH	K9FCH4

Cable

For use with	Order number							
	36 in.	48 in.	60 in.	72 in.	84 in.	96 in.	108 in.	120 in.
OT30...100F3, OT200U30	OXC1L36	OXC1L48	OXC1L60	OXC1L72	OXC1L84	OXC1L96	OXC1L108	-
OT400...600U30-FC	-	K7C048	K7C060	K7C072	K7C084	K7C096	-	K7C120
OT800...1200U30-FC	-	K8C048	K8C060	K8C072	K8C084	K8C096	-	-

Terminal shrouds

For use with	Order number
OT30...100F3	OTS125T3
OT200U30	OTS250G1L/3
OT400U30-FC	OTS403-FC
OT600U30-FC	OTS603-FC
OT800U30-FC	OTS803-FC
OT1200U30-FC	OTS1203-FC

¹ Rotate the OT_03 disconnect 180 degrees to mount on the operating mechanism

² For disconnects above 100A

Front operated non-fusible disconnect switches OTDC16...1000

Product range

UL508i

File E4466875



Base or DIN-rail mounting

	OTDC16U2	OTDC16U4	OTDC16U6	OTDC16US2	OTDC16US4	OTDC16US6
	OTDC25U2	OTDC25U4		OTDC25US2	OTDC25US4	
		OTDC32U4			OTDC32US4	
Rated Voltage [V DC]	600	600	600	600	600	600
Rated current [A]	16 - 25	16 - 25 - 35	16	16 - 25	16 - 25 - 32	16

UL508i

File E4466875



Door mounting

	OTDC16UT2	OTDC16UT4	OTDC16UT6	OTDC16UST2	OTDC16UST4	OTDC16UST6
	OTDC25UT2	OTDC25UT4		OTDC25UST2	OTDC25UST4	
		OTDC32UT4			OTDC32UST4	
Rated Voltage [V DC]	600	600	600	600	600	600
Rated current [A]	16 - 25	16 - 25 - 35	16	16 - 25	16 - 25 - 32	16

UL98B

File #E354681



	OTDC100U02	OTDC100U11	OTDC100U22	OTDC100UV22	OTDC100US02	OTDC100US11	OTDC100US22
	OTDC200U02	OTDC200U11	OTDC180U22	OTDC200UV22	OTDC200US02	OTDC200US11	OTDC180US22
	OTDC245U02	OTDC245U11	OTDC200U22		OTDC245US02	OTDC245US11	OTDC200US22
Rated Voltage [V DC]	1000	1000	1000	1500	1000	1000	1000
Rated current [A]	100 - 200 - 250	100 - 200 - 250	100 - 180 - 200	100 - 200	100 - 200 - 250	100 - 200 - 250	100 - 180 - 200

Front operated non-fusible disconnect switches OTDC16...1000

Product range

UL98B
File #E354681



		OTDC100USV22	OTDC250UF02 OTDC250UFV02	OTDC250UF11 OTDC250UFV11	OTDC250UF22/ OTDC250UFV22	OTDC800U22
		OTDC200USV22	OTDC320UF02 OTDC320UFV02	OTDC320UF11 OTDC320UFV11	OTDC320UF22/ OTDC320UFV22	OTDC1000U22
			OTDC400UF02 OTDC400UFV02	OTDC400UF11 OTDC400UFV11	OTDC400UF22/ OTDC400UFV22	
			OTDC600UF02 OTDC600UFV02	OTDC600UF11 OTDC600UFV11	OTDC600UF22/ OTDC600UFV22	
Rated Voltage [V DC]		1500	1000/1500	1000/1500	1000/1500	1000
Rated current [A]	UL98B	100 - 200	250 - 320 - 400 - 600	250 - 320 - 400 - 600	250 - 320 - 400 - 600	800 - 1000

UL98B
File #E354681



		OTDC250UFS02 / OTDC250UFSV02		OTDC250UFS11 / OTDC250UFSV11	
		OTDC320UFS02 / OTDC320UFSV02		OTDC320UFS11 / OTDC320UFSV11	
		OTDC400UFS02 / OTDC400UFSV02		OTDC400UFS11 / OTDC400UFSV11	
		OTDC600UFS02 / OTDC600UFSV02		OTDC600UFS11 / OTDC600UFSV11	
Rated Voltage [V DC]		1000/1500		1000/1500	
Rated current [A]	UL98B	250 - 320 - 400 - 600		250 - 320 - 400 - 600	

UL98B
File #E354681



		OTDC250UFS22/ OTDC250UFSV22		OTDC800US22	
		OTDC320UFS22/ OTDC320UFSV22		OTDC1000US22	
		OTDC400UFS22/ OTDC400UFSV22			
		OTDC600UFS22/ OTDC600UFSV22			
Rated Voltage [V DC]		1000/1500		1000	
Rated current [A]	UL98B	250 - 320 - 400 - 600		800 - 1000	

Side operated non-fusible disconnect switches OTDC100...200

Product range

UL-types
UL98B
File #E354681



	OTDC100U20S	OTDC100US20S
	OTDC200U20S	OTDC200US20S
Rated Voltage [V DC]	1000	1000
Rated current [A]	100 - 200	100 - 200

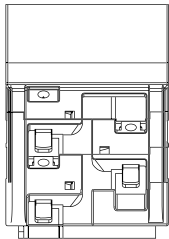
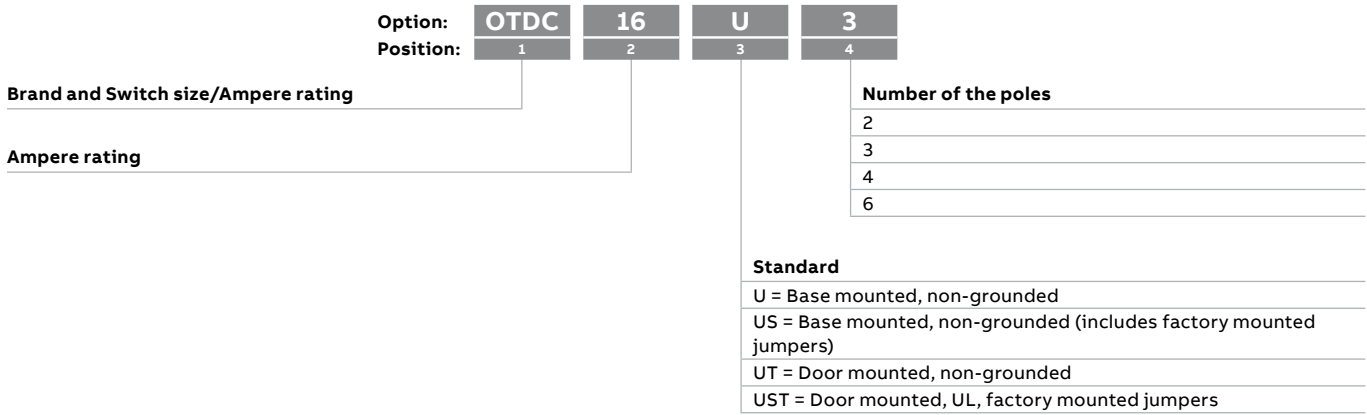
Non-fusible disconnect switches

Type designation key and pole configuration table

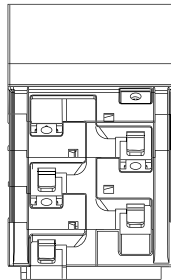
Type codes

Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

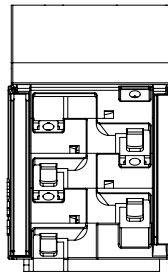
Explanation of the types 16 to 32 Amperes, open version



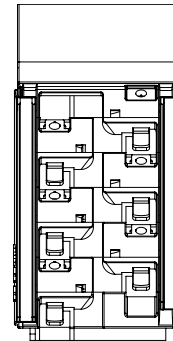
2 pole version



3 pole version



4 pole version



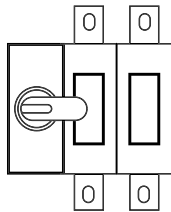
6 pole version

Non-fusible disconnect switches

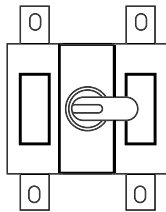
Type designation key and pole configuration table

Explanation of the types OTDC100...1600, UL98B

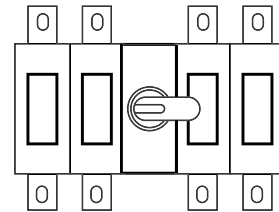
Option:	OTDC	200	U	S	11	K	-ESS
Position:	1	2	3	4	5	6	7
Brand OTDC = ABB DC switch-disconnector brand							
Switch size 100...1600 = 100...1600 Amperes							
Standard U = UL98B UF = UL98B							
Connection bars/jumpers Blank = Connection bars/jumpers not included V = 1500 VDC S = Grounded versions (connection kits are premounted)							
							Application Blank = PV application ESS = ESS application
							Included handle - = None P = External handle K = Direct mount, front operation S = Side operation (handle not included)
							Number of poles 11 = Two poles, mechanism between the poles 02, 20 = Two poles, mechanism at the end of the switch 12 = Three poles, mechanism between the poles 22 = Four poles, mechanism between the poles 33 = Six poles, mechanism between the poles



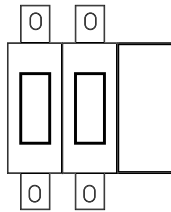
Configuration 02



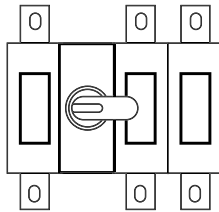
Configuration 11



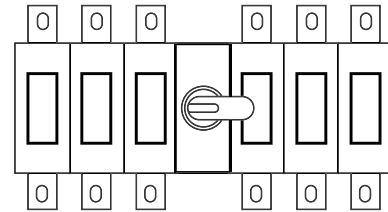
Configuration 22



Configuration 20 (side operated only)



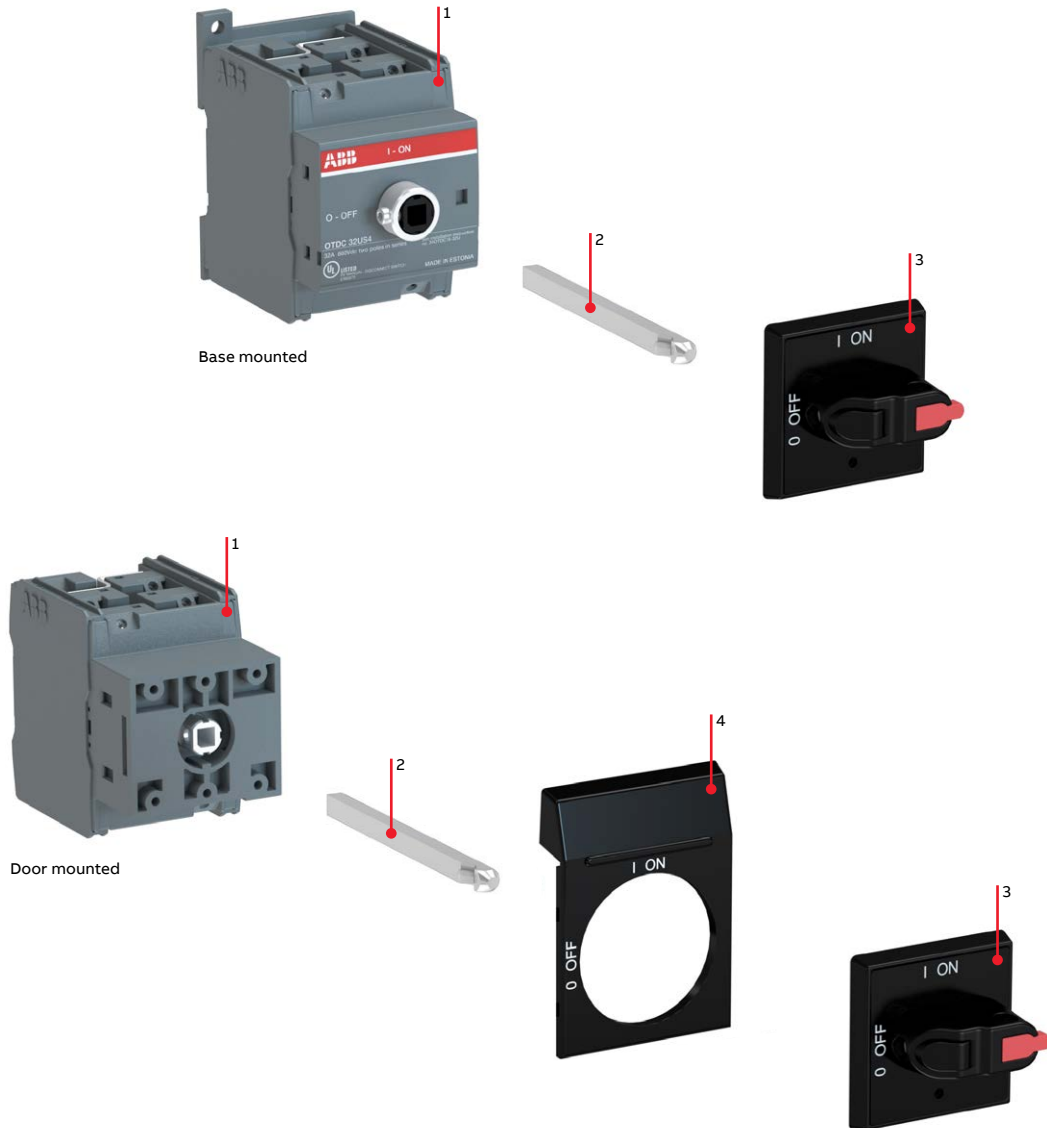
Configuration 12



Configuration 33

Non-fusible disconnect switches OTDC16...1000

Selection overview



DC switch-disconnectors accessory guide

1. Switch-disconnector
2. Shaft
3. Selector handle (options for direct mount or external mount with a shaft available)
4. Legend plate

Please note that listed accessories are not automatically included in your order. See next page for recommendations.

Non-fusible disconnect switches OTDC16...1000

Ordering information

Switch-disconnectors OTDC_, base or DIN-rail mounting, UL

Touch-safe IP20 protected terminal clamps included. Types OTDC16...32US include pre-mounted jumper. Shafts and handles to be ordered separately.



OTDC16...32U2



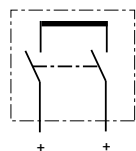
OTDC16...32U4

Single circuit

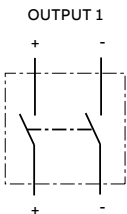
Number of poles	Rated operat. current [A]	Type	Order code	Weight/unit [kg]
	UL			
	600 VDC			
2	16	OTDC16U2	1SCA134369R1001	0.15
2	25	OTDC25U2	1SCA134375R1001	0.15
2	32	OTDC32U2	1SCA141976R1001	0.15
2	16	OTDC16US2	1SCA134372R1001	0.15
2	25	OTDC25US2	1SCA134378R1001	0.15

Double circuit

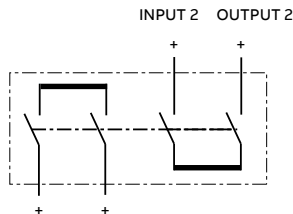
Number of poles	Rated operat. current [A]	Type	Order code	Weight/unit [kg]
	UL			
	600 VDC			
4	16	OTDC16U4	1SCA134370R1001	0.15
4	25	OTDC25U4	1SCA134377R1001	0.15
4	32	OTDC32U4	1SCA136703R1001	0.15
4	16	OTDC16US4	1SCA134373R1001	0.15
4	25	OTDC25US4	1SCA134379R1001	0.15
4	32	OTDC32US4	1SCA136704R1001	0.15



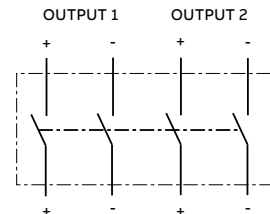
Single circuit, US types



Single circuit, U types



Double circuit, US types



Double circuit, U types

NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC16...1000

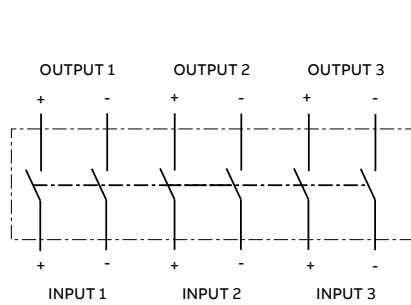
Ordering information



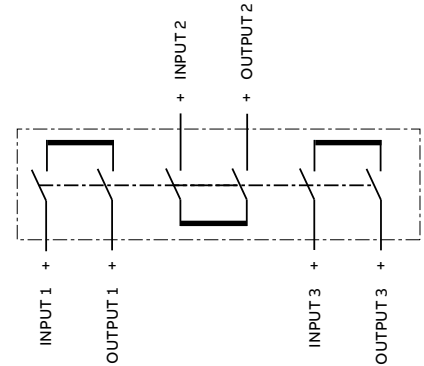
OTDC16...32U6

Triple circuit

Number of poles	Rated operat. current [A]		Type	Order code	Weight/unit [kg]
	UL				
	600 VDC				
6	16		OTDC16U6	1SCA134371R1001	0.15
6	16		OTDC16US6	1SCA134374R1001	0.15
6	25		OTDC25U6	1SCA141960R1001	0.15
6	32		OTDC32U6	1SCA141963R1001	0.15



Triple circuit, U types



Triple circuit, US types

Non-fusible disconnect switches OTDC16...32U_T

Ordering information

OTDC16...32U_T

Touch-safe IP20 protected terminal clamps included. Types OTDC16...32US include pre-mounted jumper OEZXY86. Shafts and handles to be ordered separately.



OTDC16...32UT2,
OTDC16...32UST2



OTDC16...32UT4,
OTDC16...32UST4

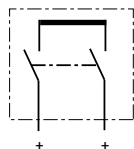
Single circuit

Number of poles	Rated operat. current [A]		Type	Order code	Weight/unit [kg]
	UL				
	600 VDC				
2	16		OTDC16UT2	1SCA134387R1001	0.15
2	25		OTDC25UT2	1SCA134388R1001	0.15
2	16		OTDC16UST2	1SCA134581R1001	0.15
2	25		OTDC25UST2	1SCA134578R1001	0.15
2	32		OTDC32UT2	1SCA141966R1001	0.15

Double circuit

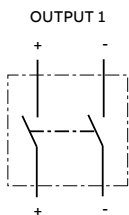
Number of poles	Rated operat. current [A]		Type	Order code	Weight/unit [kg]
	UL				
	600 VDC				
4	16		OTDC16UT4	1SCA134390R1001	0.15
4	25		OTDC25UT4	1SCA134391R1001	0.15
4	32		OTDC32UT4	1SCA136705R1001	0.15
4	16		OTDC16UST4	1SCA134582R1001	0.15
4	25		OTDC25UST4	1SCA134579R1001	0.15
4	32		OTDC32UST4	1SCA136706R1001	0.15

120



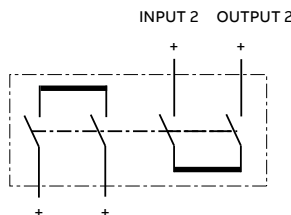
INPUT 1 OUTPUT 1

Single circuit, US types



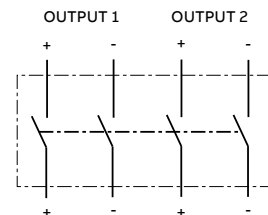
INPUT 1

Single circuit, U types



INPUT 1 OUTPUT 1

Double circuit, US types



INPUT 1 INPUT 2

Double circuit, U types

NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC16...32U_T, 1000

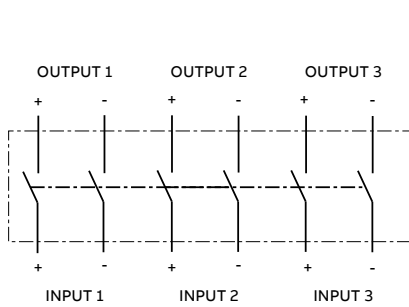
Ordering information



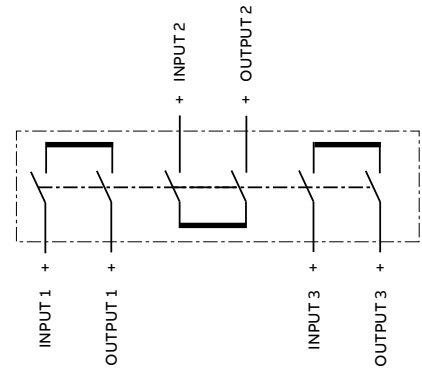
OTDC16...32UT6,
OTDC16...32UST6

Triple circuit

Number of poles	Rated operat. current [A]		Type	Order code	Weight/unit [kg]
	UL				
	600 VDC				
6	16		OTDC16UT6	1SCA134580R1001	0.15
6	16		OTDC16UST6	1SCA134583R1001	0.15



Triple circuit, U types



Triple circuit, US types

NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC100...245, 1000

Ordering information



OTDC100...200US02



OTDC100U...200US11



OTDC100...180US22



OTDC100...200U22

Single circuit, 1000 VDC, UL98B - 100...250 A

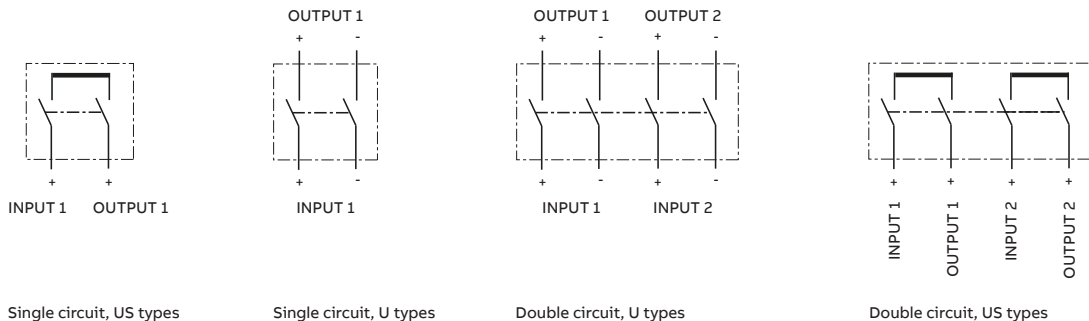
Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC100E02K) are available. Phase barriers are included in types OTDC100...245U02 - installation mandatory.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/ unit [kg]
Front operated, mechanism at the end of the switch. OTDC_US types include pre-mounted connection bar kit.					
2	1a	100	OTDC100US02	1SCA126155R1001	1.2
2	1a	200	OTDC200US02	1SCA126121R1001	1.2
2	1a	250	OTDC245US02	1SCA149106R1001	1.2
2	2a, 2b	100	OTDC100U02	1SCA126184R1001	1.1
2	2a, 2b	200	OTDC200U02	1SCA126123R1001	1.1
2	2a, 2b	250	OTDC245U02	1SCA149100R1001	1.1
Front operated, mechanism between the poles. OTDC_US types include pre-mounted connection bar kit.					
2	1a	100	OTDC100US11	1SCA125437R1001	1.2
2	1a	200	OTDC200US11	1SCA125436R1001	1.2
2	1a	250	OTDC245US11	1SCA149108R1001	1.2
2	2a, 2b	100	OTDC100U11	1SCA123957R1001	1.1
2	2a, 2b	200	OTDC200U11	1SCA123767R1001	1.1
2	2a, 2b	250	OTDC245U11	1SCA149102R1001	1.1

Double circuit, 1000 VDC, UL98B - 100...200 A

The switches OTDC_U22 and OTDCUS22 can be used for double circuit applications. Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC180U22K) are available. Phase barriers are included.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/ unit [kg]
Front operated, mechanism between the poles. OTDC_US types include pre-mounted connection bar kit.					
2x2	3	100	OTDC100US22	1SCA126181R1001	2.5
2x2	3	180	OTDC180US22	1SCA126942R1001	2.5
2x2	3	200	OTDC200US22	1SCA126189R1001	2.5
2x2	4a	100	OTDC100U22	1SCA126180R1001	2.3
2x2	4a	180	OTDC180U22	1SCA126941R1001	2.3
2x2	4a	200	OTDC200U22	1SCA126129R1001	2.3



NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC100...245, 1000

Ordering information



OTDC100...200US33



OTDC100...200U33

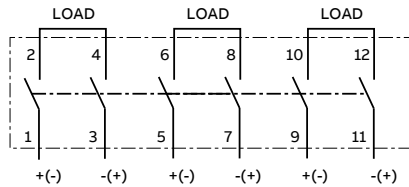
Triple circuit, 1000 VDC, UL98B - 100...200 A

The switches OTDC_U33 and OTDC_US33 can be used for triple circuit applications. Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC180U33K) are available. Phase barriers are included - installation mandatory.

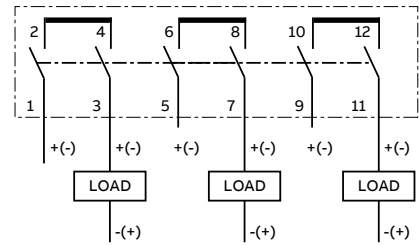
Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism between the poles. OTDC_US types include pre-mounted connection bar kit.					
3x2	7i	100	OTDC100US33	1SCA149086R1001	3.2
3x2	7i	200	OTDC200US33	1SCA149087R1001	3.2
3x2	7a, 7e	100	OTDC100U33	1SCA149069R1001	2.8
3x2	7a, 7e	200	OTDC200U33	1SCA149090R1001	2.8

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...245	OXp6X210	OHb65J6	M8x25
OTDC100...245	-	OTDv250EK	M8x25



Triple circuit, U types



Triple circuit, US types

Non-fusible disconnect switches OTDC100...245, 1000 side operated

Ordering information



OTDC100...200U20S



OTDC100...200US20S

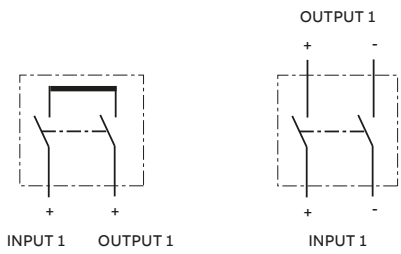
Side operated, single circuit, 1000 VDC, UL98B - 100...250 A

Side operation. Shafts and handles are not included. OTDC_US types include pre-mounted connection bar kit. The mechanism is located at the end of the switch. Phase barriers are included - installation mandatory.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/unit [kg]
2	1a	100	OTDC100US20S	1SCA131541R1001	1.7
2	1a	200	OTDC200US20S	1SCA131549R1001	1.7
2	1a	250	OTDC245US20S	1SCA149115R1001	1.7
2	2a	100	OTDC100U20S	1SCA131540R1001	1.3
2	2a	200	OTDC200U20S	1SCA131548R1001	1.5
2	2a	250	OTDC245U20S	1SCA149113R1001	1.5

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...250	OSP6X210	OHB65JE005	M8x25



Single circuit, US types

Single circuit, U types

NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC100...200, 1500

Ordering information



OTDC100...200UV22



OTDC100...200USV22

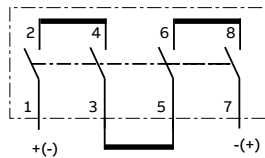
Single circuit, 1500 VDC, UL98B -100...200 A

The switches OTDC_UV22 and OTDC_USV22 can be used for 1500VDC single circuit applications. Shafts and handles are not included. Phase barriers are included - installation mandatory.

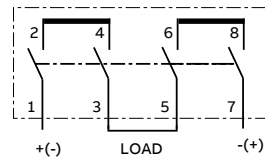
Number of poles	Circuit	Rated operat. current [A] UL98B / 1500 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism between the poles. OTDC_US types include pre-mounted connection bar kit.					
2x2	6a,6b	100	OTDC100UV22	1SCA149076R1001	2.3
2x2	6a,6b	200	OTDC200UV22	1SCA149077R1001	2.3
2x2	6m	100	OTDC100USV22	1SCA149095R1001	2.4
2x2	6m	200	OTDC200USV22	1SCA149097R1001	2.4

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...200	OXp6X210	OHB65J6	M8x25
OTDC100...200	-	OTDV250EK	M8x25



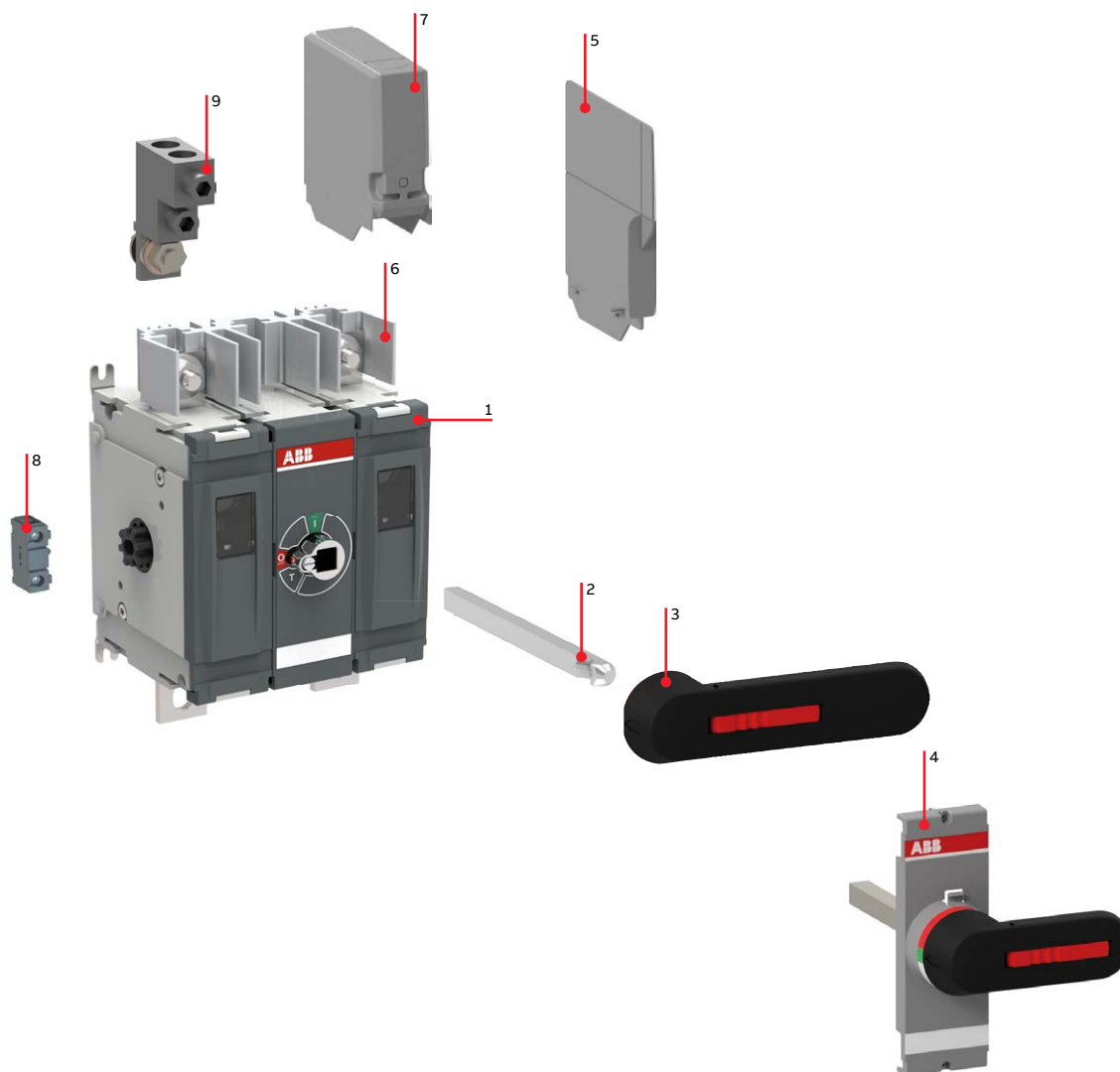
Single circuit, US types



Single circuit, U types

Non-fusible disconnect switches OTDC250...600, 1000 and 1500

Selection guide



DC switch-disconnectors accessory guide

- | | |
|------------------------|----------------------|
| 1. Switch-disconnector | 6. Connection bar |
| 2. Shaft | 7. Shroud |
| 3. Pistol handle | 8. Auxiliary contact |
| 4. Direct mount handle | 9. Mechanical lug |
| 5. Phase barrier | |

Please note that listed accessories are not automatically included in your order. See next page for recommendations.

Non-fusible disconnect switches OTDC250...600, 1000

Ordering information



OTDC250...400UFS02



OTDC250...400UFS11



OTDC600UFS02



OTDC600UFS11



OTDC250...600UF11



OTDC250...600UF11

Single circuit, 1000 VDC, UL - 250...600 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UF11P) or direct mount handle (OTDC_K, e.g.OTDC400UF11K) are available. Phase barriers are included in types OTDC250...600UF02 - installation mandatory. Connection bar kit is factory installed in grounded types OTDC250...600UFS_.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism at the end of the switch					
2	2a,2b	250	OTDC250UF02	1SCA158158R1001	3.41
2	2a,2b	320	OTDC320UF02	1SCA158182R1001	3.41
2	2a,2b	400	OTDC400UF02	1SCA158207R1001	3.41
2	2a,2b	600	OTDC600UF02	1SCA158231R1001	3.41
2	1a	250	OTDC250UFS02	1SCA158324R1001	3.76
2	1a	320	OTDC320UFS02	1SCA158336R1001	3.76
2	1a	400	OTDC400UFS02	1SCA158349R1001	3.76
2	1a	600	OTDC600UFS02	1SCA158368R1001	4.16
Front operated, mechanism between the poles					
2	2a,2b	250	OTDC250UF11	1SCA158160R1001	3.41
2	2a,2b	320	OTDC320UF11	1SCA158184R1001	3.41
2	2a,2b	400	OTDC400UF11	1SCA158209R1001	3.41
2	2a,2b	600	OTDC600UF11	1SCA158233R1001	3.41
2	1a	250	OTDC250UFS11	1SCA158326R1001	3.76
2	1a	320	OTDC320UFS11	1SCA158338R1001	3.76
2	1a	400	OTDC400UFS11	1SCA158354R1001	3.76
2	1a	600	OTDC600UFS11	1SCA158370R1001	4.16

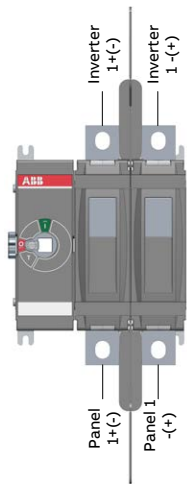
Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...600	OXP12x185	OHB95J12	M10x30 M12x40
		OHB125J12	
		OHB145J12	
	-	OTDV400FK1	
		OTDV400FK2	

Non-fusible disconnect switches OTDC250...600, 1000

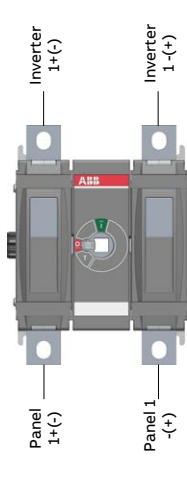
Ordering information

OTDC250...600UF02

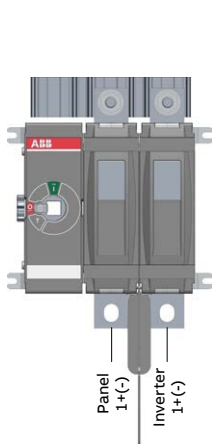


Circuit 2a, 2b

OTDC250...600UF11

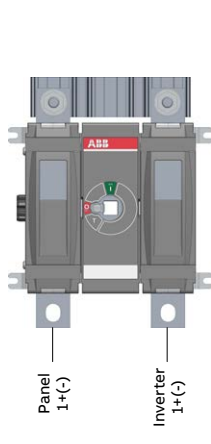


OTDC250...400UFS02

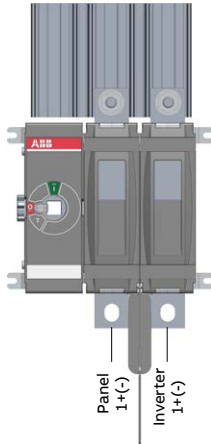


Circuit 1a

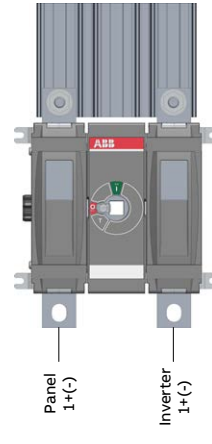
OTDC250...400UFS11



OTDC600UFS02



OTDC600UFS11



NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC250...600, 1000

Ordering information



OTDC250...400UFS22



OTDC600UFS22



OTDC600UFS22

Double circuit, 1000 VDC, UL - 250...600 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UF22P) or direct mount handle (OTDC_K, e.g.OTDC400UF22K) are available. Phase barriers are included in types OTDC250...600UF22_ - installation mandatory. Connection bar kit is factory installed in grounded types OTDC250...600UFS22.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism between the poles					
4	4a,4c	250	OTDC250UF22	1SCA158292R1001	5.94
4	4a,4c	320	OTDC320UF22	1SCA158296R1001	5.94
4	4a,4c	400	OTDC400UF22	1SCA158300R1001	5.94
4	4a,4c	600	OTDC600UF22	1SCA158304R1001	5.94
4	3	250	OTDC250UFS22	1SCA158396R1001	6.54
4	3	320	OTDC320UFS22	1SCA158398R1001	6.54
4	3	400	OTDC400UFS22	1SCA158400R1001	6.54
4	3	600	OTDC600UFS22	1SCA158364R1001	7.14

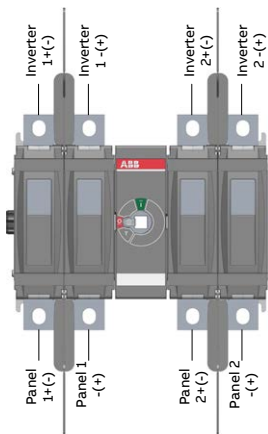
Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...600	OXP12x185	OHB145J12	M10x30
	-	OTDV400FK2	M12x40

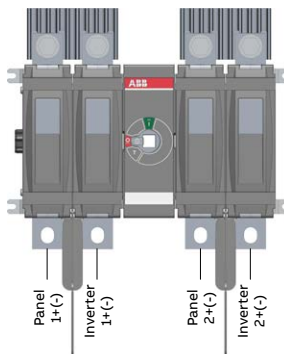
OTDC250...600UF22

OTDC250...400UFS22

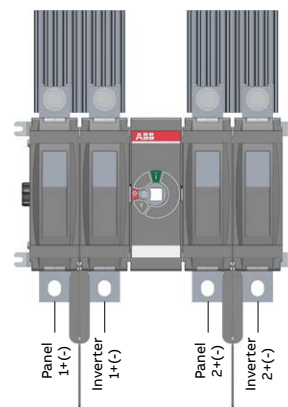
OTDC600UFS22



Circuit 4a, 4c



Circuit 3



NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC250...600, 1500

Ordering information



OTDC250...600UFV02



OTDC250...400UFSV02



OTDC600UFSV02



OTDC250...600UFV11



OTDC250...400UFSV11



OTDC600UFSV11

Single circuit, 1500 VDC, UL - 250...600 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UFV11P) or direct mount handle (OTDC_K, e.g.OTDC400UFV11K) are available. Phase barriers are included in types OTDC250...600UFV02 - installation mandatory. Connection bar kit is factory installed in grounded types OTDC250...600UFS_.

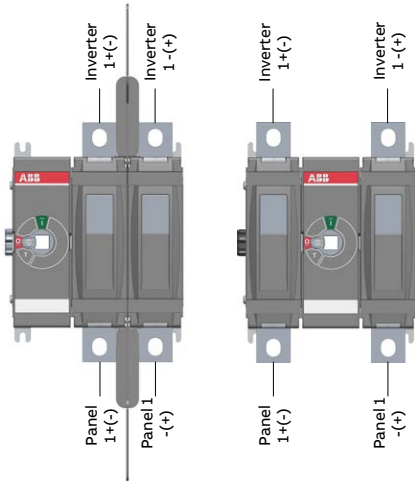
Number of poles	Circuit	Rated operat. current [A] UL98B / 1500 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism at the end of the switch					
2	2a,2b	250	OTDC250UFV02	1SCA158164R1001	3.41
2	2a,2b	320	OTDC320UFV02	1SCA158188R1001	3.41
2	2a,2b	400	OTDC400UFV02	1SCA158213R1001	3.41
2	2a,2b	600	OTDC600UFV02	1SCA158237R1001	3.41
2	1a	250	OTDC250UFSV02	1SCA158330R1001	3.76
2	1a	320	OTDC320UFSV02	1SCA158342R1001	3.76
2	1a	400	OTDC400UFSV02	1SCA158358R1001	3.76
2	1a	600	OTDC600UFSV02	1SCA158374R1001	4.16
Front operated, mechanism between the poles					
2	2a,2b	250	OTDC250UFV11	1SCA158166R1001	3.41
2	2a,2b	320	OTDC320UFV11	1SCA158190R1001	3.41
2	2a,2b	400	OTDC400UFV11	1SCA158215R1001	3.41
2	2a,2b	600	OTDC600UFV11	1SCA158239R1001	3.41
2	1a	250	OTDC250UFSV11	1SCA158332R1001	3.76
2	1a	320	OTDC320UFSV11	1SCA158344R1001	3.76
2	1a	400	OTDC400UFSV11	1SCA158360R1001	3.76
2	1a	600	OTDC600UFSV11	1SCA158376R1001	4.16

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...600	OXP12x185	OHB95J12	M10x30 M12x40
		OHB125J12	
		OHB145J12	
		OTDV400FK1	
		OTDV400FK2	
-	-	-	-

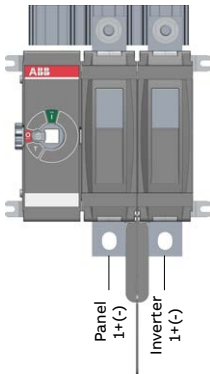
NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC250...600, 1500
 Ordering information



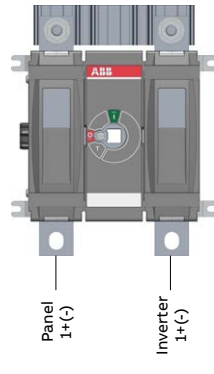
Circuit 2a, 2b

OTDC250...400UFSV02

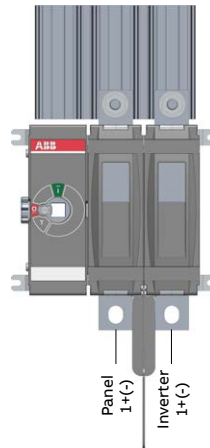


Circuit 1a

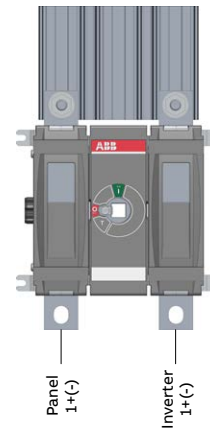
OTDC250...400UFSV11



OTDC600UFSV02



OTDC600UFSv11



NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC250...600, 1500

Ordering information



OTDC250...600UFV22



OTDC250...400UFSV22



OTDC600UFSV22

Double circuit, 1500 VDC, UL - 250...600 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UF22P) or direct mount handle (OTDC_K, e.g.OTDC400UF22K) are available. Phase barriers are included in types OTDC250...600UF22_ - installation mandatory. Connection bar kit is factory installed in grounded types OTDC250...600UFS22.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism between the poles					
4	4a,4c	250	OTDC250UFV22	1SCA158293R1001	5.94
4	4a,4c	320	OTDC320UFV22	1SCA158297R1001	5.94
4	4a,4c	400	OTDC400UFV22	1SCA158301R1001	5.94
4	4a,4c	600	OTDC600UFV22	1SCA158305R1001	5.94
4	3	250	OTDC250UFSV22	1SCA158397R1001	6.54
4	3	320	OTDC320UFSV22	1SCA158399R1001	6.54
4	3	400	OTDC400UFSV22	1SCA158401R1001	6.54
4	3	600	OTDC600UFSV22	1SCA158366R1001	7.14

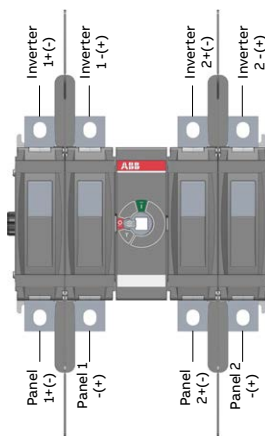
Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...600	OXp12x185	OHB145J12	M10x30
	-	OTDV400FK2	M12x40

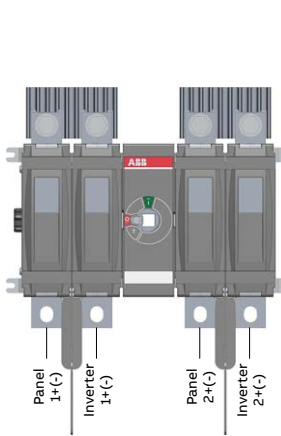
OTDC250...600UFV22

OTDC250...400UFSV22

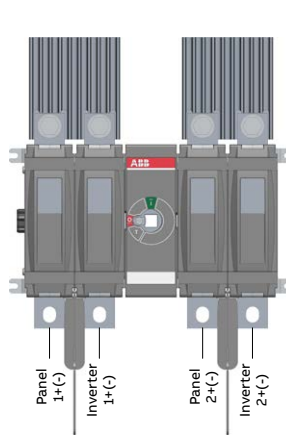
OTDC600UFSV22



Circuit 4a, 4c



Circuit 3



NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC250...600, 1500

Ordering information

ESS Switch disconnectors

DC Switch disconnectors intended for Energy Storage System, ESS applications. Higher performance level compared to the PV Switch-disconnectors ensures reliable breaking for higher short-circuit currents.



OTDC250...400UFV11-ESS

Single circuit, 1500 VDC, IEC - 250...400 A

Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UFV11P-ESS) or direct mount handle (OTDC_K, e.g. OTDC400UFV11K-ESS) are available.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1500 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism between the poles					
2	2a,2b	250	OTDC250UFV11-ESS	1SCA158167R1001	3.41
2	2a,2b	320	OTDC320UFV11-ESS	1SCA158191R1001	3.41
2	2a,2b	400	OTDC400UFV11-ESS	1SCA158216R1001	3.41

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...400	OX P12x185	OHB95J12	M10x30 M12x40
		OHB125J12	
		OHB145J12	
	-	OTDV400FK1	
		OTDV400FK2	



Circuit 2a, 2b

NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Non-fusible disconnect switches OTDC800...1000, 1000

Ordering information



OTDC800...1000U22

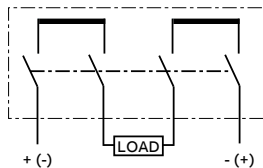


OTDC800...1000US22

Single circuit, 1000 VDC, UL98B - 800 to 1000 A

Shafts and handles are not included. Switches with direct handle OTV1000EK (OTDC_K) are available. Phase barriers are included - installation mandatory. Included terminal bolts M12x60. Circuit 6a, 6b requires connection bar kit for OTDC_U22 types.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Order code	Weight/unit [kg]
Front operated, mechanism between the poles. OTDC_US include pre-mounted connection bar kit.					
4	6a, 6b	800	OTDC800U22	1SCA142338R1001	21
4	6a, 6b	1000	OTDC1000U22	1SCA143712R1001	21
4	6a, 6b	800	OTDC800U22K	1SCA143721R1001	21
4	6a, 6b	1000	OTDC1000U22K	1SCA143713R1001	21
4	6m	800	OTDC800US22	1SCA142339R1001	21
4	6m	930	OTDC1000US22	1SCA143714R1001	21
4	6m	800	OTDC800US22K	1SCA143722R1001	21
4	6m	930	OTDC1000US22K	1SCA143715R1001	21



Single circuit

NOTE: The complete list of available accessories can be found in the Accessories section starting on page 9-120.

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for handle knobs

Handle knobs for base and DIN rail mounted switches

Mounting directly to the switch, no shaft needed, for base and DIN-rail mounted switches
Padlockable with one padlock with bail diameter 5mm, see the table below.



OHBS11



OHRS21



OHRS31

Color	Handle length [mm]	Type	Order code
Suitable for switches OTDC16...32F, OTDC16...32U_			
Black	31	OHBS1	1SCA109087R1001
Black	31	OHBS1/1	1SCA109088R1001
Red	31	OHR51	1SCA109095R1001
Red	31	OHR51/1	1SCA109096R1001
Suitable for switches OTDC16...32F, OTDC16...32U_			
Black	40	OHBS2	1SCA109089R1001
Black	40	OHBS2/1	1SCA109090R1001
Red	40	OHR52	1SCA108598R1001
Red	40	OHR52/1	1SCA108599R1001
Black	39	OHBS3	1SCA108320R1001
Black	39	OHBS3/1	1SCA108319R1001
Red	39	OHR53	1SCA108667R1001
Red	39	OHR53/1	1SCA108688R1001

Special information for handle knobs

Handle type	Padlockable	Shaft through the handle	45mm cut-out enable ¹
OHBS1_, OHR51_	No	No	Yes
OHBS2_, OHR52_	Yes	No	Yes
OHBS3_, OHR53_	No	No	Yes

¹In I-position the handle shall remain within the cut-out height

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for handles



OHBS3PH



OHBS2PJ



OHYS3RH



OHYS2RJ

Selector handles, for door mounted switches

Indication I-O and ON-OFF. No separate shaft needed.

Color	Type	Order code
Snap-on mounting, door drilling 22.5mm, for OTDC16...32FT and OTDC16...32U_T		
No padlocking, IP54, NEMA 1		
Black	OHBS1PH	1SCA105211R1001
Red-yellow	OHYS1PH	1SCA105294R1001
Padlockable with one padlock, IP54, NEMA 1		
Black	OHBS3PH	1SCA105236R1001
Red-yellow	OHYS3PH	1SCA105327R1001
Padlockable with max. 3 padlocks, IP65, NEMA 1, 3R, 12		
Black	OHBS2PJ	1SCA105231R1001
Red-yellow	OHYS2PJ	1SCA105322R1001
Screw mounting, hole distance 36mm, for OTDC16...32FT and OTDC16...32U_T		
No padlocking, IP54, NEMA 1		
Black	OHBS1RH	1SCA105212R1001
Red-yellow	OHYS1RH	1SCA105295R1001
Padlockable with one padlock, IP54, NEMA 1		
Black	OHBS3RH	1SCA105237R1001
Red-yellow	OHYS3RH	1SCA105328R1001
Padlockable with max. 3 padlocks, IP65, hole distance 36/48mm, NEMA 1, 3R, 12		
Black	OHBS2RJ	1SCA105232R1001
Red-yellow	OHYS2RJ	1SCA105323R1001

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for handles

Selector handles for base and DIN-rail mounted switches

Indication I-O and ON-OFF, for shaft diameter 6mm, door drilling 22.5mm.



OHBS3



OHYS3



OHBS2

Color	Type	Order code
IP 54 handles, NEMA 1, suitable for switches OTDC16...32F and OTDC16...32U_		
Black	OHBS1AH	1SCA102680R1001
Yellow-red	OHYS1AH	1SCA105290R1001
Door interlock in ON-position.		
Black	OHBS1AH1	1SCA105210R1001
Yellow-red	OHYS1AH1	1SCA105291R1001
Padlockable with one padlock with bail diameter 5...6.3mm.		
Black	OHBS3AH	1SCA105234R1001
Yellow-red	OHYS3AH	1SCA105325R1001
Padlockable with one padlock with bail diameter 5...6.3mm, door interlock in ON-position.		
Black	OHBS3AH1	1SCA105235R1001
Yellow-red	OHYS3AH1	1SCA105326R1001
IP 65 handles, NEMA 1, 3R, 12, suitable for switches OTDC16...32F and OTDC16...32U_		
Padlockable with max. 3 padlocks with bail diameter 5...8mm, door interlock in ON-position, defeatable.		
Black	OHBS2AJ	1SCA105213R1001
Yellow-red	OHYS2AJ	1SCA105296R1001
Padlockable with max. 3 padlocks with bail diameter 5...8mm, door interlock in ON-position.		
Black	OHBS2AJ1	1SCA105215R1001
Yellow-red	OHYS2AJ1	1SCA105297R1001

Selector handle with metal hasp

IP65 handles, NEMA 1, 3R, 12, suitable for switches OTDC16...32F and OTDC16...32U_

Padlockable with max. 3 padlocks, door interlock in the ON-position, defeatable.

Black	OHBS2AJEH	1SCA108230R1001
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Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for handles

Pistol handles OH_ handles for front operation: IP 65, NEMA 1, 3R, 12

Padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle ensures double insulation.



OHY_



OHB274/J12

Color	Handle length [mm]	Suitable for switches	Type	Order number	Weight/unit [kg]
For shaft diameter 6mm, indication in types OHB and OHY: I-0, ON-OFF, in types OHG: I-0.					
Black	65	OTDC100...250E_, OTDC100...245U_	OHB65J6	1SCA022380R9660	0.12
Yellow-red	65	OTDC100...250E_, OTDC100...245U_	OHY65J6	1SCA022380R9820	0.12
Grey	65	OTDC100...250E_, OTDC100...245U_	OHG65J6	1SCA022380R9740	0.12
Black	80	OTDC100...250E_, OTDC100...245U_	OHB80J6	1SCA022381R0240	0.14
Yellow-red	80	OTDC100...250E_, OTDC100...245U_	OHY80J6	1SCA022381R0410	0.14
Grey	80	OTDC100...250E_, OTDC100...245U_	OHG80J6	1SCA022381R0320	0.14
For shaft diameter 6mm, indication: Test-OFF-ON/Test-0-I					
Black	65	OTDC100...250E_, OTDC100...200U_	OHB65J6T	1SCA022399R8110	0.12
Yellow-red	65	OTDC100...250E_, OTDC100...200U_	OHY65J6T	1SCA022456R9540	0.12
For shaft diameter 12mm, indication OHB and OHY: I-0, ON-OFF, in types OHG: I-0					
Black	95	OTDC315...800F_, OTDC250...600UF_	OHB95J12	1SCA022381R0830	0.16
Yellow-red	95	OTDC315...800F_, OTDC250...600UF_	OHY95J12	1SCA022381R1050	0.16
Grey	95	OTDC315...800F_, OTDC250...600UF_	OHG95J12	1SCA022381R0910	0.16
Black	125	OTDC315...800F_, OTDC250...600UF_	OHB125J12	1SCA022381R1560	0.17
Yellow-red	125	OTDC315...800F_, OTDC250...600UF_	OHY125J12	1SCA022381R1720	0.17
Grey	125	OTDC315...800F_, OTDC250...600UF_	OHG125J12	1SCA022381R1640	0.17
Black	145	OTDC315...800F_, OTDC250...600UF_	OHB145J12	1SCA022381R2110	0.17
For shaft diameter 12mm, indication: Test-OFF-ON/Test-0-I					
Black	95	OTDC315...800F, OTDC250...600U_	OHB95J12T	1SCA022736R1750	0.16
Yellow-red	95	OTDC315...800F, OTDC250...600U_	OHY95J12T	1SCA022736R1910	0.16
Black	125	OTDC315...800F, OTDC250...600U_	OHB125J12T	1SCA022652R2220	0.16
Yellow-red	125	OTDC315...800F, OTDC250...600U_	OHY125J12T	1SCA022652R2310	0.16
Black	274	OTDC1000...1600E, OTDC800...1000U_	OHB274J12T	1SCA115920R1001	0.54
Yellow-red	274	OTDC1000...1600E, OTDC800...1000U_	OHY274J12T	1SCA115919R1001	0.54

Door interlocking in ON-position means that the door cannot be opened when the handle is in ON-position. This can be defeated in IP65 types to allow authorized personnel access for inspection. NEMA 4, 4x pistol handles available on request. Handles padlockable in all positions available on request.

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for handles



OTDV400FK1



OTDV400FK2

Direct mount handles

Color	Handle length [mm]	Suitable for switches	Type	Order code	Weight/unit [kg]
Indication Test-OFF-ON/Test-O-I. Padlockable with three padlocks in OFF-position. Includes shaft and mechanism cover.					
Black	65	OTDC100...250E_, OTDC100...245U_ ¹	OTDV250EK	1SCA127390R1001	0.1
Red-yellow	65	OTDC100...250E_, OTDC100...245U_ ¹	OTDVY250EK	1SCA127391R1001	0.1
Black	95	OTDC315...800F_, OTDC250...600UF_	OTDV400FK1	1SCA157315R1001	0.3
Black	145	OTDC315...800F_, OTDC250...600UF_	OTDV400FK2	1SCA157316R1001	0.33
Black	274	OTDC1000...1600E, OTDC800...1000U_	OTV1000EK	1SCA106608R1001	1.5

¹Valid only for front-operated switches

OH_ handles for side operation: IP 65, NEMA 1, 3R, 12

For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position, IP 65. The position indications are rotated 90°.



OHB_

Color	Handle length [mm]	Suitable for switches	Type	Order code	Weight/unit [kg]
Side operation: for shaft diameter 6mm, indication in types OHB and OHY: I-O, ON-OFF, in types OHG: I-O.					
Plastic handles					
Black	65	OTDC100...245U_S	OHB65J6E00S	1SCA022382R9850	0.12
Red-yellow	65	OTDC100...245U_S	OHY65J6E00S	1SCA022382R9930	0.12
Grey	65	OTDC100...245U_S	OHG65J6E00S	1SCA022383R4510	0.12
Side operation: for shaft diameter 6mm, indication: Test/I-O/ON-OFF, grey: Test/I-O					
Black	65	OTDC100...245U_S	OHB65J6TE00S	1SCA109016R1001	0.12
Red-yellow	65	OTDC100...245U_S	OHY65J6TE00S	1SCA022688R0140	0.12
Grey	65	OTDC100...245U_S	OHG65J6TE00S	1SCA109014R1001	0.12

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for shafts



OXS6X_



OXP12



OXP6X



OXP12X185



OXP6X150

Extended shafts for selector handles

Shaft length [mm]	H [mm]	Type	Order number	Weight/unit [kg]
Suitable for switches OTDC16...32F, shaft diameter 6mm				
85	See dimension drawings	OXS6X85	1SCA101647R1001	0.02
105		OXS6X105	1SCA108043R1001	0.02
120		OXS6X120	1SCA101654R1001	0.03
130		OXS6X130	1SCA101655R1001	0.03
160		OXS6X160	1SCA101656R1001	0.04
180		OXS6X180	1SCA101659R1001	0.04
250		OXS6X250	1SCA101660R1001	0.07

Extended shafts for pistol handles

Shaft length [mm]	H [mm]	Type	Order number	Weight/unit [kg]
For pistol type handles				
Suitable for switches OTDC100...250E_, OTDC100...200U_, shaft diameter 6mm¹				
130	109...174	OMP6X130	1SCA022057R0570	0.04
150	129...194	OMP6X150	1SCA022295R5600	0.05
161	140...205	OMP6X161	1SCA022067R1760	0.05
210	189...254	OMP6X210	1SCA022295R6080	0.06
290	269...334	OMP6X290	1SCA022042R6370	0.08
Suitable for switches OTDC315...800F, OTDC250...600UF_, shaft diameter 12mm				
166	146...226	OMP12X166	1SCA022325R7100	0.2
185	165...245	OMP12X185	1SCA022325R6710	0.2
250	230...310	OMP12X250	1SCA022325R6980	0.28
280	260...340	OMP12X280	1SCA022137R5140	0.3
325	305...385	OMP12X325	1SCA022042R5810	0.36
395	445...525	OMP12X395	1SCA022042R5990	0.43
465	439...519	OMP12X465	1SCA022042R6020	0.51
535	515...595	OMP12X535	1SCA022042R6110	0.59
Suitable for switches OTDC1000...1600E_, OTDC800...1000U_, shaft diameter 12mm				
250	221...350	OMP12X250	1SCA022325R6980	0.28
280	251...380	OMP12X280	1SCA022137R5140	0.30
325	296...425	OMP12X325	1SCA022042R5810	0.36
395	366...495	OMP12X395	1SCA022042R5990	0.43
465	436...565	OMP12X465	1SCA022042R6020	0.51
535	506...635	OMP12X535	1SCA022042R6110	0.59

¹Longer shafts on request

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for phase separators

Phase separators

Plastic phase separators for maintaining 1" clearance between the phases without terminal shrouds. Snap-on mounting. Included as standard in OTDC100...1600E_ , OTDC315...800F or OTDC100...1000U_ if use mandatory.



OTDCB250/2

Suitable for switches	Type	Order number	Units/ type	Weight/ unit [kg]
OTDC100...250E_ , OTDC100...245U_	OTDCB250/2	1SCA148901R1001	2	0.03
OTDC315...800F_ , OTDC250...600UF_	OTDCB400F/2	1SCA157314R1001	2	0.10



OTDCB400F/2

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for auxiliary contacts

Auxiliary contact blocks, IP20

Contact numbering according to EN 50013. The type and the ordering numbers are for one piece.



OA1G10, OA3G01



OEA28

Mounting on the left side of the switch or under the mechanism cover

Mounting on the left side of the switch: Max. 8 auxiliary contact blocks with the OEA28 module.

Mounting under the mechanism cover:

OTDC100...250E, OTDC100...200U_: Max. 4 test contacts or 2 test contacts + 2 test indication contacts.¹

OTDC315...800F, OTDC250...600UF_: Max. 4 test contacts + 4 test indication contacts.¹

OTDC1000...1600E_, OTDC800...1000U_: Max 4 test indication contacts + 6 test contacts + 2 early operation test contacts.

The test contacts can be used as standard auxiliary contacts as well.

Suitable for switches	Function	Type	Order code	Delivery batch [pcs] ²	Weight/unit [kg]
OTDC100...1600E_, OTDC100...1000U_	1NO	OA1G10	1SCA022353R4970	10	0.03
OTDC100...1600E_, OTDC100...1000U_	1NC	OA3G01	1SCA022456R7410	10	0.03

Module for auxiliary contacts

Screw mounting to the left side of the switch

Suitable for switches	Type	Order code	Delivery batch [pcs]	Weight/unit [kg]
OTDC100...1600E_, OTDC100...1000U_	OEA28	1SCA022714R8810	1	0.04

¹Contact numbering:

(83) (43) (53) 13 21 (61) (31) (71)

(84) (44) (54) 14 22 (62) (32) (72)

²Auxiliary contacts OA1G_ are available in larger packing as well.

A bulk package includes 50 auxiliary contacts. Type number: add a suffix: /B, e.g. OA1G01/B.

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for connection bar kits

Connection bar kits

Refer to pages for circuit diagrams showing the possible connections and needed amounts of kits. The kits include the necessary mounting hardware.



OEZXY91



OTDCKIT250S11



OTDCKIT400FS101



OTDCKIT600FS101



OTDCKIT400FS11



OTDCKIT600FS11

Suitable for switches	Type	Order code	Weight/unit [kg]
OTDC100...250E_	OEZXY91	1SCA125290R1001	0.14
OTDC100...250E_, OTDC100...200U_	OTDCKIT250S11	1SCA148902R1001	0.14
OTDC250...400UF_	OTDCKIT400FS101	1SCA157317R1001	0.33
OTDC600UF_	OTDCKIT600FS101	1SCA157319R1001	0.75
OTDC250...400UF_	OTDCKIT400FS11	1SCA157318R1001	0.65
OTDC600UF_	OTDCKIT600FS11	1SCA157320R1001	1.26

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for terminal shrouds

Terminal shrouds

The type and ordering numbers are for one piece.



OTS250G1L



OTDCS400FG1



OTS1600G1S



OTS1600G1L



OTS250T1L

Suitable for switches	Description	Type	Order number	Weight/ unit [kg]
Grey				
OTDC100...250E, OTDC100...245US	long	OTS250G1L	1SCA022715R5340	0.01
OTDC315...800F_, OTDC250...600UF_	-	OTDCS400FG1	1SCA157308R1001	0.08
OTDC1000...1600E_, OTDC800...1000U_	short	OTS1600G1S ¹	1SCA102667R1001	0.13
OTDC1000...1600E_, OTDC800...1000U_	long	OTS1600G1L ¹	1SCA106134R1001	0.22
Transparent				
OTDC100...250E, OTDC100...245US	long	OTS250T1L	1SCA022726R0640	0.01
OTDC315...800F_, OTDC250...600UF_	-	OTDCS400FT1	1SCA157309R1001	0.08

¹The use of shrouds limits the rated current: OTDC1000U22 to 980 A and OTDC1000US22 to 920 A.

Shrouds for jumpers connection bars

The type and ordering numbers are for one piece.

Suitable for switches	Suitable for jumper/ connection bar	Type	Order code	Weight/ unit [kg]
Grey				
OTDC1000...1600E_, OTDC800...1000U_	OTDCKIT1250B11	OTDCS1250T2	1SCA144021R1001	0.07
OTDC1000...1600E_, OTDC800...1000U_	OTDCKIT1250B101	OTDCS1250T3	1SCA143477R1001	-

Accessories for non-fusible disconnect switches OTDC16...1000

Ordering information for interlocks and mechanical lugs

Mechanism interlock kits and electrical interlocks

OTDC switch-disconnectors can be interlocked in the OFF-position using padlocks or a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8mm.



OTZT4_

Suitable for switches	Type	Order code	Weight/unit [kg]
Interlocking in OFF position			
OTDC1000...1600E, OTDC800...1000U_	OTZT4A	1SCA106526R1001	1.0
Mechanical interlock kit			
Interlocking in OFF and ON positions			
OTDC1000...1600E, OTDC800...1000U_	OTZT4L	1SCA106531R1001	1.0

Mechanical lugs

Mechanical lugs for Al and Cu cables for UL switch-disconnectors



OZXA200



OZXA250



OZXA1200

Suitable for switches	Wire range AWG	Type	Order code	Weight/unit [kg]
OTDC100...245U_	AWG 4 - 300MCM	OZXA200/1	1SCA022747R8940	0.03
OTDC100...245U_	AWG 2 - 500MCM	OZXA250/1	1SCA148396R1001	0.19
OTDC250...400UF_	AWG 6 - 300MCM	OZXA402	1SCA157321R1001	0.31
OTDC600UF_	2 x AWG 6 - 300MCM	OZXA604	1SCA157322R1001	0.93
OTDC1000...1600E_, OTDC800...1000U_	4 X AWG 2 - 600MCM	OZXA1200/1	1SCA130842R1001	0.55

Non-fusible disconnect switches OTDC16...1000

Technical data

Technical data in accordance to UL508I for photovoltaic disconnect switches OTDC16...32U

Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size			OTDC16U	OTDC25U	OTDC32U
UL Listed	Standard		UL 508I	UL 508I	UL 508I
Rated ambient temperature			°C -20...+60	-20...+60	-20...+60
Rated current /poles in series	600 V	One circuit	A 16/2	25/2	
		Two circuits	A 16/2	25/2x2	32/2x2
Short circuit rating	600 V	kA	5	5	5
Protection type			RK5 Fuse	RK5 Fuse	RK5 Fuse
Wire range	MCM		12-6 AWG	12-6 AWG	12-6 AWG

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100...245U

Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size			OTDC100U	OTDC200U	OTDC245U ¹
UL Listed	Standard		UL98B	UL98B	UL98B
Rated ambient temperature			°C -20...+50	-20...+50	-20...+50
Rated current /poles in series	1000 V	One circuit	A 100/2	200/2	250/2 ¹
		Two circuits	A 100/2x2	200/2x2	
		Three circuits	A 100/3x2	200/3x2	
	1500 V	One circuit	A 100/4	200/4	
Short circuit rating	1000 V	kA	10	10	10
Protection type			Circuit breaker	Circuit breaker	Circuit breaker
Wire range	MCM		#250-500	#250-500	#250-500

¹For enclosure details, please refer to installation instructions or consult us.

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC250UF_...600UF_

Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size			OTDC250UF_	OTDC320UF_	OTDC400UF_	OTDC600UF_
UL Listed	Standard		UL98B	UL98B	UL98B	UL98B
Rated ambient temperature			°C -20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C
Rated current /poles in series	1000 V	One circuits	A 250/2	320/2	400/2	600/2
		Two circuits	A 250/2x2	320/2x2	400/2x2	600/2x2
	1500 V	One circuits	A 250/2	320/2	400/2	600/2
		Two circuits	A 250/2x2	320/2x2	400/2x2	600/2x2
Short circuit rating	1000 V	kA	10	10	10	10
	1500 V	kA	10	10	10	10
Protection type			Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker
Mechanical lug			OZXA 402	OZXA 402	OZXA 402	OZXA 406
Wire range	MCM		300kcmil-6 Cu/Al	300kcmil-6 Cu/Al	300kcmil-6 Cu/Al	2x 300kcmil-6 Cu/Al
Tightening torque			lb-in. 275	275	275	275

Non-fusible disconnect switches OTDC16...1000

Technical data

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC250UF...400UF-ESS

Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size			OTDC250UF_-ESS	OTDC320UF_-ESS	OTDC400UF_-ESS
UL Listed	Standard		UL98B	UL98B	UL98B
Rated ambient temperature			°C -20...+50°C	-20...+50°C	-20...+50°C
Rated current /poles in series	1500 V	One circuits	A 250/2	320/2	400/2
Rated conditional short-circuit current	R.M.S. -value I _q		kA 30	30	30
	Max. ETI fuse size, gPV ¹	L/R=1ms	A 400	400	400
Mechanical lug			OZXA 402	OZXA 402	OZXA 402
Wire range	MCM		300kcmil-6 Cu/Al	300kcmil-6 Cu/Al	300kcmil-6 Cu/Al
Tightening torque			lb-in. 275	275	275

¹Fuse manufacturer, size and type: ETI, 400A, Cat.no 004110 followed by 632, 637 or 642. More details from the fuse manufacturer catalog.

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC800...1000U

Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size			OTDC800US22	OTDC800U22	OTDC1000US22	OTDC1000U22
UL Listed	Standard		UL98B	UL98B	UL98B	UL98B
Rated ambient temperature			°C -20...+50	-20...+50	-20...+50	-20...+50
Rated current /poles in series	1000 V	One circuit	A 800 / 4	800 / 4	930 / 4 ¹	1000 / 4 ²
Short circuit rating	1000 V		kA 10	10	10	10
Protection type			Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker
Wire range	MCM		4 x #4 - 300	4 x #4 - 300	4 x #4 - 300	4 x #4 - 300
Cable lug			OZXA1200	OZXA1200	OZXA1200	OZXA1200

¹When shrouds are used rated current I = 920A

²When shrouds are used rated current I = 980A

HPC™, new generation high-pressure contact switch

Top- or bottom feed

800-4000 Amperes - 600 VAC max.

Product Introduction

ABB's type HPC™ switches are UL listed in accordance with Standard 977, Fused Power Circuit Devices (UL File No. E-51827). The charge-after-close mechanism provides stored energy, quick-make/quick-break operation. Multiple spring-loaded high-pressure current-carrying contact arms and an arcing contact arm provide excellent current-carrying capability without sacrificing high interrupting fault performance. These switches are 100 percent rated and can interrupt, on a make and break basis, a minimum of 12 times their nameplate rating without fuse assistance at 600Vac. Complete HPC™ switch and Class L fuse coordination is therefore achieved for all levels of fault current up to 200,000 rms amperes symmetrical at 600Vac maximum. Type HPC™ switches used as service disconnects comply with the National Electrical Code Article 110.10 for adequate short-circuit current and ground fault protection.

Greater Convenience and Operational Safety

The controls and status indicators you need most are readily accessible. The flush-mounted handle, ON/OFF buttons, test receptacle, bell alarm reset buttons — with or without lockout — are easily reached and all are double-insulated from live components. And, for added security, a standard padlock device lets you prevent accidental or unauthorized closing of the switch.

HPC™ switches, new generation are versatile and designed for a wide variety of applications including temperature insensitive control units, push-to-open and close control, charge-after-close operation, 3 cycle closing, UL listed (file E-51827) field installable accessories suitable for 50/60 Hz. All accessories and control wiring are prewired to dedicated, secondary terminal points on each switch.

Features

- High Durability – Safety of Operation
High-dielectric strength, glass reinforced insulated case.
- High Interrupting Capability
Arc chute of unique construction suppresses arcs and cools gases rapidly, providing quick arc interruption and extended switch life.
- High Transient Voltage Withstandability
Interphase partitions mesh with switch midcover to completely isolate each pole.
- Extended Switch Life
Preloaded constant pressure pivot eliminates braid whip and fraying on high short circuit currents and repeated operations.
- Positive “ON-OFF” Indication
Green (OFF), Red (ON), provides visual indication regarding the position of the switch contacts.
- Easy Operation – Quick Make
Flush-mounted handle, operated 6 times to charge; push button on remote close to close the switch
- Emergency Open – Quick Break
Finger-tip “OFF” button rapidly opens the switch contacts.
- Fuse Mounting Bolts for Ease of Mounting Fuses
- Padlocking Provisions Standard



1600A HPC™ Switch
(Type SHP, Top-Feed)



1600A HPC™ Switch
(Type SHP, Bottom-Feed)

Product Forms

- Top Feed – Line terminals at top of switch.
- Bottom Feed – Line terminals at bottom of switch; fuses are de-energized when switch is in OFF positions. Same size as top-feed.

Quick, Error-Free Installation of Universal Accessories

Drop-in bell alarm, bell alarm with manual reset lockout, shunt trip, shunt trip with lockout, and undervoltage release install in seconds. No special tools. No switch disassembly. Just slide them into place. The modules are universal across all frame sizes and each is mechanically keyed to its compartment so you make the right connection, every time. These accessories are field installable and upgradable.

ABB's innovative, modular, drop-in accessories provide the ultimate customer solution for field customization:

UL Listed

- Accessory combination (one each) shunt trip, shunt trip with lockout, undervoltage release, bell alarm (alarm only), bell alarm with lockout.
- Rated 12-250 Vdc through 12-240 Vac, continuous duty.

Complete installation in seconds without special tools, switch disassembly or adjustment

- The user can select how protective control unit functions, the shunt trip (with or without lockout), and UVR accessories interface with the bell alarm and bell alarm with lockout accessories: An overcurrent, shunt trip, or UVR trip can be set to actuate the bell alarm or bell alarm with lockout. Any combination of output actions based on inputs can be selected.
- Shunt trip and undervoltage trip targets are clearly displayed by the control unit LCD.

Pre-wired wire harness makes field installation a snap for:

- Motor operator with remote charge indicator
- Form C auxiliary switches, up to 12-stage maximum
- Remote close solenoid

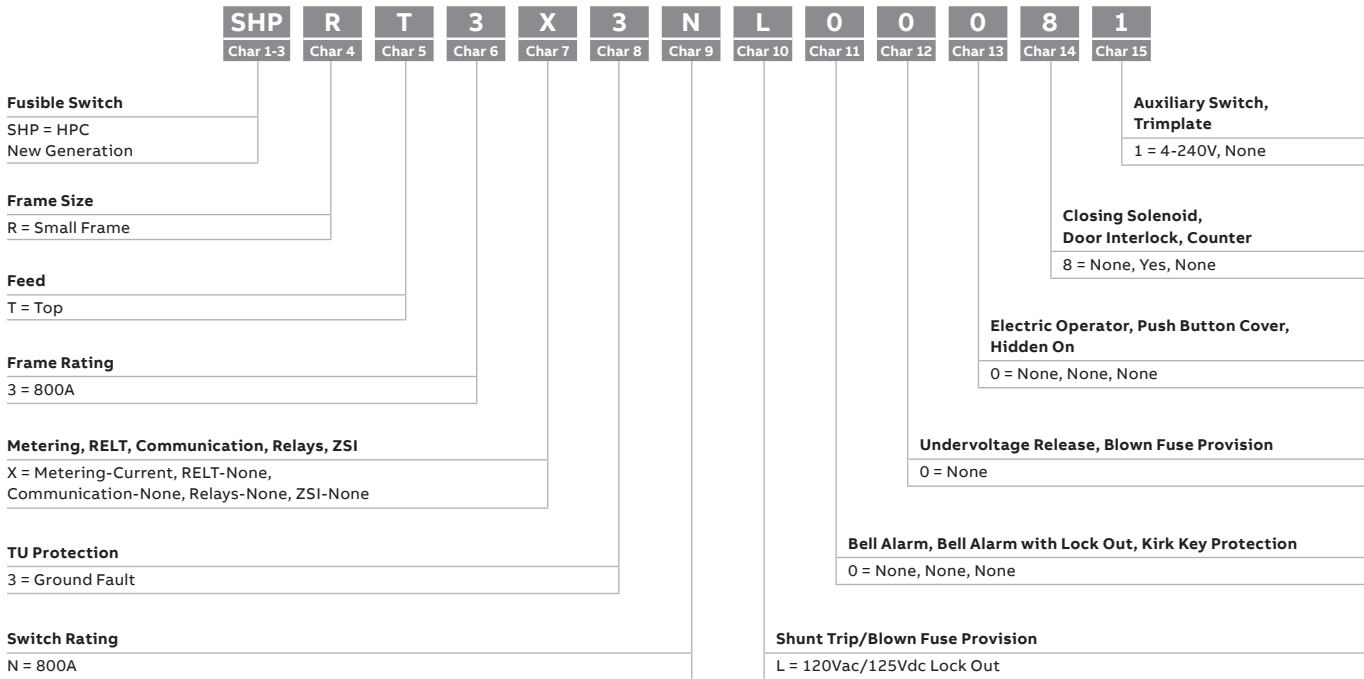
Additional field-installable accessories including:

- Key interlock provision (4 locks maximum)
- Limited access ON/OFF cover
- Mechanical operations counter
- Door interlock

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation, nomenclature system

HPC™ Switch, New Generation, Nomenclature



Characters 1, 2, 3 Fusible Switch

	Character 1, 2, 3
HPC™, New Generation	SHP

Characters 4 Frame Size

	Character 4
Small (800A - 1600A)	R
Large (2000A - 4000A)	C
Long (42" 4000A w/ GF, Retrofill only)	L

Character 5 Feed

	Character 5
Top	T
Bottom	B

Character 6 Frame Rating

	Character 6
800A	3
1600A	5
2000A	6
2500A	7
3000A	8
4000A	9

Character 7 Metering, RELT, Communication, Relays, ZSI

Metering	RELT	Comm	Relays	ZSI	Character 7
Current	None	None	None	None	X
Current	RELT	None	None	None	A
Current	RELT	Modbus	None	None	B
Current	None	Modbus	None	None	C
Adv & WFC	RELT	Modbus	None	None	E
Adv & WFC	None	Modbus	None	None	F
Adv & WFC	RELT	Modbus	Yes	None	H
Adv & WFC	None	Modbus	Yes	None	J
Current	None	None	None	G	K
Current	RELT	None	None	G	L
Current	RELT	Modbus	Yes	G	M
Current	None	Modbus	Yes	G	N
Adv & WFC	RELT	Modbus	None	G	Q
Adv & WFC	None	Modbus	None	G	R
Adv & WFC	RELT	Modbus	Yes	G	W
Adv & WFC	None	Modbus	Yes	G	Y
Current	None	None	None	G&I	Z
Current	RELT	None	None	G&I	1
Current	RELT	Modbus	None	G&I	2
Current	None	Modbus	None	G	3
Adv & WFC	RELT	Modbus	None	G&I	5
Adv & WFC	None	Modbus	None	G	6
Adv & WFC	RELT	Modbus	Yes	G&I	8
Adv & WFC	None	Modbus	Yes	G	9

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation, nomenclature system

Character 8 TU Protection

	Character 8
Fuse Only	X
I (Switchable)	1
IG (I Switchable)	8
IGA (I Switchable) ¹	9
IGDA (All Switchable) ^{1,2}	A
G	3
GA	4
GDA (All Switchable) ^{1,2}	5

¹GF Alarm is not available when RELT is selected.
²G switchable by password only.

Character 9 Switch Rating

	Character 9
800A	N
1200A	R
1600A	U
2000A	W
2500A	1
3000A	2
4000A	5

Character 10 Shunt Trip/Blown Fuse Provision

Voltage	with Lockout	without Lockout	Blown Fuse Provision	Character 10
None	•		None	0
12 Vdc	•		None	H
24 Vac/24 Vdc	•		None	J
48 Vac/48 Vdc	•		None	K
120 Vac/125 Vdc	•		None	L
208 Vac	•		None	M
240 Vac/250 Vdc	•		None	N
480 Vac	•		None	P
600 Vac	•		None	R
120 Vac	•		•	V
208 Vac	•		•	W
240 Vac	•		•	Y
12 Vdc		•	None	1
24 Vac/24 Vdc		•	None	2
48 Vac/48 Vdc		•	None	3
120 Vac/125 Vdc		•	None	4
208 Vac		•	None	5
240 Vac/250 Vdc		•	None	6
480 Vac		•	None	7
600 Vac		•	None	8
120 Vac		•	•	S
208 Vac		•	•	T
240 Vac		•	•	U

Character 11 Bell Alarm, Bell Alarm with Lock Out, Kirk Key Protection

Bell Alarm	Bell Alarm with Lock Out	Kirk Key Protection	Character 11
None	None	None	0
None	240	None	1
None	600	None	2
240	None	None	4
240	240	None	5
240	600	None	6
600	None	None	8
600	240	None	9
600	600	None	A
None	None	4	G

Character 11 Bell Alarm, Bell Alarm with Lock Out, Kirk Key Protection (Continued)

Bell Alarm	Bell Alarm with Lock Out	Kirk Key Protection	Character 11
None	240	4	H
None	600	4	J
240	None	4	L
240	240	4	M
240	600	4	N
600	None	4	R
600	240	4	S
600	600	4	T

Character 12 Undervoltage Release, Blown Fuse Provision

Undervoltage Release	Blown Fuse Provision	Character 12
None	None	0
24 Vac	None	1
48 Vac	None	2
120 Vac	None	3
208 Vac	None	4
240 Vac	None	5
480 Vac	None	6
600 Vac	None	7
12 Vdc	None	8
24 Vdc	None	9
48 Vdc	None	A
125 Vdc	None	B
250 Vdc	None	C
120 Vac	•	W
208 Vac	•	X
240 Vac	•	Y

Character 13 Electric Operator, Push Button Cover, Hidden On

Electric Operator	Push Button Cover	Hidden On	Character 13
None	None	None	0
120 Vac	None	None	1
240 Vac	None	None	2
24 Vdc	None	None	3
48 Vdc	None	None	4
72 Vdc	None	None	5
125 Vdc	None	None	6
None	Yes	None	8
120 Vac	Yes	None	9
240 Vac	Yes	None	A
24 Vdc	Yes	None	B
48 Vdc	Yes	None	C
72 Vdc	Yes	None	D
125 Vdc	Yes	None	E
None	None	Yes	G
120 Vac	None	Yes	H
240 Vac	None	Yes	J
24 Vdc	None	Yes	K
48 Vdc	None	Yes	L
72 Vdc	None	Yes	M
125 Vdc	None	Yes	N
None	Yes	Yes	R
120 Vac	Yes	Yes	S
240 Vac	Yes	Yes	T
24 Vdc	Yes	Yes	U
48 Vdc	Yes	Yes	V
72 Vdc	Yes	Yes	W
125 Vdc	Yes	Yes	X

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation, nomenclature system

Character 14 Closing Solenoid, Door Interlock, Counter

Closing Solenoid	Door Interlock	Counter	Character 14
None	Yes	None	8
120 Vac	Yes	None	9
240 Vac	Yes	None	A
24 Vdc	Yes	None	B
48 Vdc	Yes	None	C
72 Vdc	Yes	None	D
125 Vdc	Yes	None	E
None	Yes	Yes	R
120 Vac	Yes	Yes	S
240 Vac	Yes	Yes	T
24 Vdc	Yes	Yes	U
48 Vdc	Yes	Yes	V
72 Vdc	Yes	Yes	W
125 Vdc	Yes	Yes	X

Character 15 Auxiliary Switch, Trimplate

Auxiliary Switch	Trimplate	Character 15
None	None	0
4-240V	None	1
8-240V	None	2
12-240V	None	3
4-600V	None	4
8-600V	None	5
None	Yes	8
4-240V	Yes	9
8-240V	Yes	A
12-240V	Yes	B
4-600V	Yes	C
8-600V	Yes	D

HPC™ Switch, New Generation, Frame Product Numbers

THP **R** **2** **3** **6** **08** **T**

Fusible Switch

THP = HPC™ Switch

Frame Size

R = Small Frame (800A-1600A)
 C = Large Frame (2000A-4000A)
 L = Long Frame (42" 4000A w/GF, Retrofill only)

Construction

2 = New Generation

Poles

3 = 3 Pole

Feed

T = Top
 B = Bottom

Switch Rating

08 = 800A
 12 = 1200A
 16 = 1600A
 20 = 2000A
 25 = 2500A
 25 = 2500A
 40 = 4000A

Voltage

6 = 600V

HPC™, new generation high-pressure contact switch

Product number nomenclature system

Accessory Product Numbers

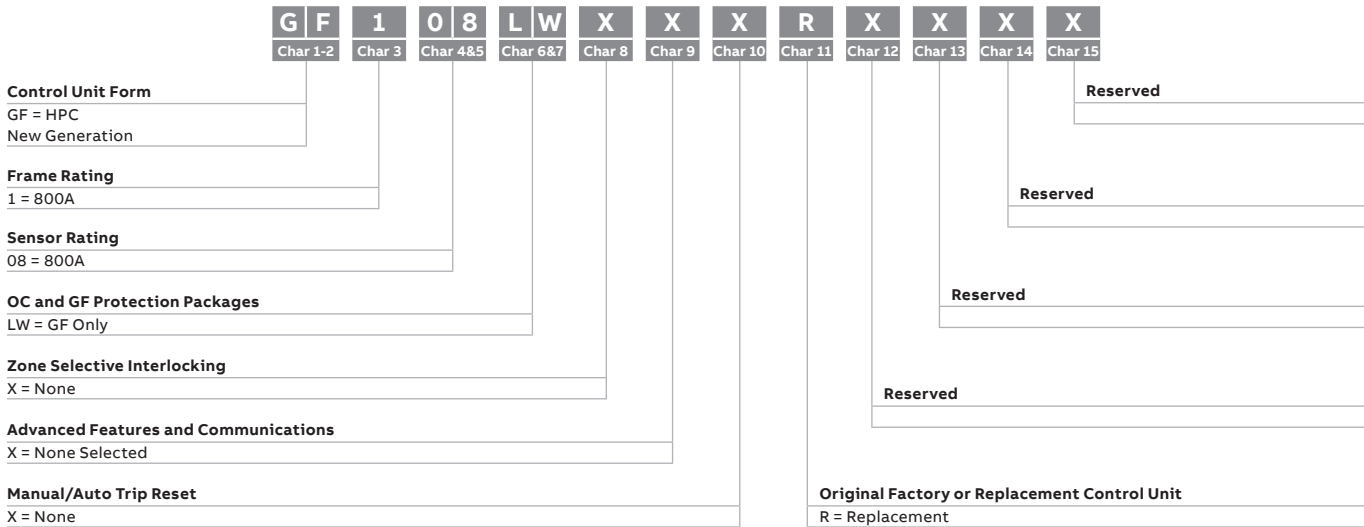
	SP	AS	240	AB4	R
HPC™ Switch					
Device Type					
AS = Auxiliary switch ¹					
BAA = Bell alarm, alarm only ¹					
BAL = Bell alarm with lockout ¹					
COUNTER = Mechanical counter ¹					
DIL = Defeatable door interlock					
E = Electric operator ¹					
K4 = Kirk key lock (4 maximum) ¹					
PBCOVER = Pushbutton cover ¹					
RCS = Remote close solenoid ¹					
ST = Shunt trip					
STL = Shunt trip with lockout ¹					
UV = Undervoltage release					
					Extender
					R = Field installable kit
					Blank = Factory installed
					Auxiliary Switch Extender
					AB4 = Auxiliary switch, type AB with 4 elements
					AB8 = Auxiliary switch, type AB with 8 elements
					AB12 = Auxiliary switch, type AB with 12 elements
					Voltage, unless otherwise stated
					012 = 12 Vdc
					024 = 24 Vdc
					048 = 48 Vdc
					120/125 = 120 Vac or 125 Vdc
					240/250 = 240 Vac and 250 Vdc
					250 = 250 Vdc
					480 = 480 Vac
					600 = 600 Vac
					08 = 800 A 25 = 2500 A
					16 = 1600 A 30 = 3000 A
					20 = 2000 A 40 = 4000 A

¹Device Product Number requires an extender "R" for field installable kit version only.
 NOTE: This information is provided only for use interpreting product numbers. It cannot be used to build product numbers.

HPC™, new generation high-pressure contact switch

EntelliGuard™ control unit nomenclature

EntelliGuard™ Control Unit Nomenclature



Character 1 & 2 EntelliGuard™ Control Unit Form

	Character 1 & 2
HPC™, New Generation	GF

Character 3 Frame Ratings

	Character 3
800A	1
1600A	2
2000A	3
2500A	4
3000A	5
4000A	7

Note: Use 1600A CT w/ 1200A rating plug for 1200A HPC™ frame.

Character 4 & 5 Sensor Rating (Amperes)

	Character 4 & 5
800A	08
1600A	16
2000A	20
2500A	25
3000A	30
4000A	40

Character 6 & 7 OC and GF Protection Packages

	Character 6 & 7
Fuse Only	LZ
I (Switchable)	S1
IG (I Switchable)	S2
IGA (I Switchable)	S3
IGDA (All Switchable) ¹	S4
GDA (All Switchable) ¹	S5
G	LW
GA	LY

¹G switchable by password only

Character 8 Zone Selective Interlocking

	Character 8
None	X
G user selectable	Z
Z+IOC user selectable	T

Character 9 Advanced Features and Communications

	Character 9
None Selected	X
RELT	1
RELT+Modbus	2
Modbus-Adv Meter+WFC+RELT	6
Modbus-Adv Meter+WFC+RELT+relay	8
Modbus Only (No RELT)	A
Adv Metering, Modbus (No RELT)	D
Adv Metering, Modbus, Relays (No RELT)	E

Character 10 Manual/Auto Trip Reset

	Character 10
None	X

Character 11 Original Factory or Replacement Control Unit

	Character 11
Factory	F
Replacement	R

HPC™, new generation high-pressure contact switch

Application information
Outlines and dimensions

Application Information - HPC™ Switches, New Generation

Ampere Rating	Feed	Outline Drawing
800A	Top	10112083P1
800A	Bottom	10112083P2
1200/1600A	Top	10112083P3
1200/1600A	Bottom	10112083P4
2000A	Top	10112083P5
2000A	Bottom	10112083P6
2500/3000A	Top	10112083P7
2500/3000A	Bottom	10112083P8
4000A	Top	10112083P11
4000A	Bottom	10112083P12

Weights - HPC™ Switches, New Generation

Frame Rating	Operation Type	Weight (lb.)
800A	Manual	81
800A	Electrical	90
1200/1600A	Manual	95
1200/1600A	Electrical	104
2000A	Manual	110
2000A	Electrical	119
2500/3000A	Manual	210
2500/3000A	Electrical	219
4000A	Manual	400
4000A	Electrical	409

Enclosure Dimensions, Volume and Ventilation Requirements

Ampere Rating	Min Volume (Cubic Inches)	A Min Ventilation Top and Bottom ¹ (Square Inches)	B Min Line to Ground (Inches)	C Min Height (Inches)	D Min Width (Inches)	E Mounting Depth (Inches)	F Min to Ground or Insulation (Inches)
800A	6062	23	2	28	25	8.66	3.5
1200A-1600A	6495	63	2	30	25	8.66	3.5
2000A	9380	63	2	40	25	9.38	3
2500A	9380	172	2	40	25	9.38	3
3000A	9380	172	2	40	25	9.38	3
4000A	17347	189	9	52	30	11.12	3

Note: For dimensions of neutral current sensor to be used with integral ground fault switches, see outline drawings: 139C5016SH1 & SH2 (TSVG types) and 10112973P1 (SSVG types).
¹Ventilating openings can be in alternate location but must provide equivalent ventilating areas.

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation

How to Order:

1. Determine your new HPC™ 15-digit part number by using the Configurator (contact your authorized ABB Distributor) and refer to the Buylog™ for complete list of options.
2. Check empower for price and availability (For access to empower, contact your authorized ABB Distributor). Note: Because of multiple possible combinations, only product numbers that have been ordered are in empower. If the product number you are interested in is not in empower, email the request to epis.uscustomerexcellence@abb.com to add it to the system.
3. Once the product number is loaded, the order can be placed via empower.
4. Note: Neutral CTs and T-Studs are ordered separately from the 15-digit product number.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

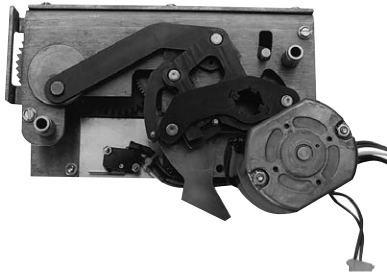
All devices UL listed for factory or field installation except where noted.

Accessories

The complete line of new generation HPC™ switch accessories may be either factory or field installed to meet user needs. The electronic shunt trip, the bell alarm, the bell alarm with mechanical lockout, and the undervoltage release modules are drop-in from the front of the switch, interchangeable across all frames, and require no field internal wiring or switch disassembly. Auxiliary switch modules are available in groups of 4, 8 or 12, NO/NC single-pole, double-throw (SPDT) switches. Their installation simply involves removal of switch cover, installation of the switch module, routing of wiring and installation of the pre-wired terminal block and re-installation of the cover. Auxiliary switches are also interchangeable across all new generation HPC™ switch frames.

Electrical Operator

The electrical operator mounts inside the front cover of the manually operated switch. This accessory can be added to any new generation HPC™ switch in the factory or the field to provide electrical spring charging and charge indication. **For remote closing, the remote close solenoid must be ordered separately.** All switches are prewired to dedicated secondary terminals for easy field installation. When electrical operation is used, either a shunt trip or an undervoltage release must be ordered separately.

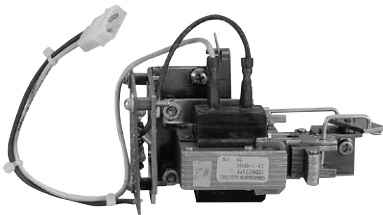


Electrical Operator

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
120	-	SPE120R	SPE120
240	-	SPE240R	SPE240
-	24	SPE024R	SPE024
-	48	SPE048R	SPE048
-	72	SPE072R	SPE072
-	125	SPE125R	SPE125

Remote Close Solenoid

This accessory provides an electrically operated solenoid which, when energized, closes the switch. It is suitable for control interlock schemes in which manual closing capability would not be convenient or desirable. The switch is provided with a manual close button, which can be replaced by the Hidden "ON" Button accessory and/or sealed using the Limited Access Pushbutton Cover accessory. The remote close accessory is continuously rated and has an anti-pump feature, which prevents a motor operated switch from repeatedly closing into a fault. Closing control voltage must be removed and re-applied for each switch closure.



Remote Close Solenoid

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
120	-	SPRCS120R	SPRCS120
240	-	SPRCS240R	SPRCS240
-	24	SPRCS024R	SPRCS024
-	48	SPRCS048R	SPRCS048
-	72	SPRCS072R	SPRCS072
-	125	SPRCS125R	SPRCS125

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Shunt Trip Module

Shunt Trip

The shunt trip accessory is an electronic module, which provides remote control capability to open the switch. When activated, the shunt trip module sends a signal to the control unit to open the switch. This allows the control unit to record, display, distinguish and communicate that the opening event was initiated by the shunt trip device. The shunt trip is continuously rated and requires no cut-off switch. When energized, the shunt trip supplies +24Vdc power to the control unit to power the display.

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
-	12	SPST012R	SPST012
24	24	SPST024R	SPST024
48	48	SPST048R	SPST048
120	125	SPST120R	SPST120
208	-	SPST208R	SPST208
240	250	SPST240R	SPST240
480	-	SPST480R ¹	SPST480 ¹
600	-	SPST600R ¹	SPST600 ¹

¹ Kit contains externally mounted transformer.

Shunt Trip with Lockout Module

The shunt trip with lockout is identical to the regular shunt trip, but when energized, it will also prevent closure of an "open" switch by mechanically blocking both manual and electrical closing. When energized, the closing springs will not discharge, the movable contacts will not move; the contacts are "kiss free."

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
-	12	SPSTL012R	SPSTL012
24	24	SPSTL024R	SPSTL024
48	48	SPSTL048R	SPSTL048
120	125	SPSTL120R	SPSTL120
208	-	SPSTL208R	SPSTL208
240	250	SPSTL240R	SPSTL240
480	-	SPSTL480R ¹	SPSTL480 ¹
600	-	SPSTL600R ¹	SPSTL600 ¹

¹ Kit contains externally mounted transformer.

Undervoltage Release Module

The undervoltage release is an electronic module used to open the switch when the monitored voltage drops below 35-60% of its rated value. The undervoltage release "resets" when the monitored voltage is re-established allowing the switch to re-close (the sealing voltage of the UVR is 60-85% of its rated voltage).

An undervoltage release trip operation is produced by the GTU control unit in response to a signal from the undervoltage release module. This allows the control unit to record, display, distinguish and communicate that the switch opening event was due to undervoltage release. Operation of the undervoltage release module will prevent switch contact closure, i.e. "kiss-free" operation. When energized, the undervoltage release supplies +24 Vdc power to the control unit to power the display.



Undervoltage Release Module

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
24	-	SPUV024ACR	SPUV024AC
48	-	SPUV048ACR	SPUV048AC
120	-	SPUV120ACR	SPUV120AC
208	-	SPUV208ACR	SPUV208AC
240	-	SPUV240ACR	SPUV240AC
480	-	SPUV480ACR ¹	SPUV480AC ¹
600	-	SPUV600ACR ¹	SPUV600AC ¹
-	12	SPUV012DCR	SPUV012DC
-	24	SPUV024DCR	SPUV024DC
-	48	SPUV048DCR	SPUV048DC
-	125	SPUV125DCR	SPUV125DC
-	250	SPUV250DCR	SPUV250DC

¹ Kit contains externally mounted transformer.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Bell Alarm (Alarm Only)

Blown Fuse Protector

The Blown Fuse Protector (factory installed) is an accessory which includes components mounted on and external to the new HPC™ switch. Control wiring is connected from one end of each fuse mounting bus-strap to a 6 pt. terminal block mounted on the side of the new HPC™ switch. A shunt trip Lockout device or UVR trip device is included based on the product numbers below for remote opening of the new HPC™ switch in the event of a blown fuse to avoid single phasing.

The accessory also includes a pin-wheel style Blown Fuse Detector equipped with 3 trigger fuses + 1 spare. Wiring from the pin-wheel device to the new HPC™ switch is the responsibility of the switchboard builder.

Ratings Vac	Factory Installed Product Number	Field Installable Product Number ¹	Trip Accessory Provided
120	BFSPSTL120AC	BFSPSTL120ACR	SPSTL120
208	BFSPSTL208AC	BFSPSTL208ACR	SPSTL208
240	BFSPSTL240AC	BFSPSTL240ACR	SPSTL240
120	BFSPUV120AC	BFSPUV120ACR	SPUV120AC
208	BFSPUV208AC	BFSPUV208ACR	SPUV208AC
240	BFSPUV240AC	BFSPUV240ACR	SPUV240AC
120	BFSPST120AC	BFSPST120ACR	SPST120
208	BFSPST208AC	BFSPST208ACR	SPST208
240	BFSPST240AC	BFSPST240ACR	SPST240

¹For field installable kits only, the Pin wheel style Blown Fuse Detector is not included due to UL accessory listing requirements.

Source the Boltswitch PW-2 Blown Fuse Detector separately and follow that manufacturer's instructions for mounting and use.

Bell Alarm (Alarm Only)

The bell alarm module is used to signal switch "tripped" status to other accessories (e.g., external alarm devices, indicating lights, relays, or logic circuits) for remote indication and interlocking functions. The bell alarm response is configurable by means of rear-mounted DIP switches on the control unit. The bell alarm can be made to operate in response to an overcurrent (including ground fault) or protective relay trip and/or a shunt trip operation, and/or operation of the undervoltage release module. It is not actuated as a result of normal switch "ON/OFF" operation.

This module provides a visual, mechanical pop-out target, which protrudes through the face of the switch door when it operates. The bell alarm may be reset manually by depressing the mechanical target, or automatically by closing the switch.

The bell alarm is provided with one SPDT switch with control power duty contacts as shown in the auxiliary switch accessories.

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
240	125-250	SPBAA240R	SPBAA240
600	125-250	SPBAA600R ²	SPBAA600 ²

²600 Vac module not UL Listed.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Bell Alarm with Mechanical Reset Lockout

Bell Alarm With Lockout

The bell alarm with lockout module combines both the bell alarm and a manual lockout function. The bell alarm switch operates identically to the standard bell alarm module, except that the mechanical pop-out target must be manually reset before the switch can be closed.

Operation of the bell alarm with lockout module can be independently set by means of setting the DIP switches at the rear of the control unit. Current rating of the single SPDT switch is identical to the auxiliary switch accessories.

Ratings Vac	Ratings Vdc	Field Installable Product Number	Factory Installed Product Number
240	125-250	SPBAL240R	SPBAL240
600	125-250	SPBAL600R ¹	SPBAL600 ¹

¹600 Vac module not UL Listed.

Auxiliary Switch

An auxiliary switch signals the HPC™ switch's primary contact position (i.e., OPEN or CLOSED) to other devices, such as indicating lights, relays or logic circuits. This enables the user to provide remote indication, interlocking or control operations as a function of HPC™ switch primary contact position. The auxiliary switch operation is independent of the method by which the HPC™ switch is opened or closed. The auxiliary switch does not distinguish between a "tripped" or "open" condition. The auxiliary switch contacts follow the main HPC™ switch contacts on opening and precede them on closing.

Auxiliary switch modules are available with 4, 8 or 12 NO/NC (SPDT) switches for control power duty ac/dc ratings. When ordered for field installation, an auxiliary switch module comes pre-wired to its own terminal board, which mounts with one screw to the left of the HPC™ switch. All switch ratings are 6A at 120V-600 Vac, 1/2A at 125 Vdc and 1/4A at 250 Vdc.



Auxiliary Switch with Pre-wired Secondary Terminals

Ratings Vac	Ratings Vdc	No. of SPDT Switch Elements (Contacts)	Field Installable Product Number	Factory Installed Product Number
240	125-250	4	SPAS240AB4R	SPAS240AB4
240	125-250	8	SPAS240AB8R	SPAS240AB8
240	125-250	12	SPAS240AB12R	SPAS240AB12
600	125-250	4	SPAS600AB4R ¹	SPAS600AB4 ¹
600	125-250	8	SPAS600AB8R ¹	SPAS600AB8 ¹

¹600 Vac module not UL Listed.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Mechanical Operations Counter

Mechanical Operations Counter

The mechanical operations counter is mounted behind the front cover of the switch. It is viewable through a rectangular knockout window opening in the switch cover. It is a five-digit, non-resettable counter, which is actuated each time the switch is opened by any means.

Field Installed Product Number	Factory Installed Product Number
SPCOUNTER	SPCOUNTER



Limited access pushbutton cover

Limited Access Pushbutton Cover

This accessory limits access to "ON/OFF" control of a switch to authorized personnel. The pushbutton cover accessory consists of transparent hinged covers that can be individually sealed to the limited access assembly. Both the "ON" and "OFF" buttons can be pilot drilled to allow use of a 1/8" rod to operate either one or both pushbuttons.

Field Installed Product Number	Factory Installed Product Number
SPPBCOVERR	SPPBCOVER



Activating the switch closing mechanism through the hole in the Hidden "ON" Button

Hidden "ON" Button

The hidden "ON" button is assembled to the mechanism behind an unlabeled, false pushbutton. Manual closing of the switch can only be performed by means of a small diameter rod. This accessory is used to limit access to the manual "ON" control to authorized personnel.

Field Installed Product Number	Factory Installed Product Number
SPPBNONR	SPPBNON

Maintenance/Repair Parts

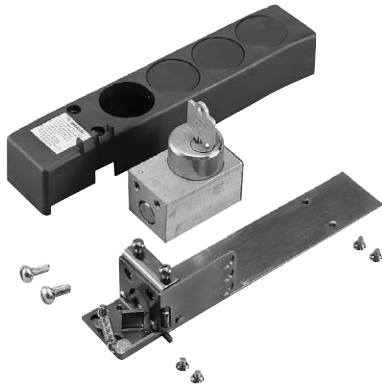
Description	Product Number
Top Cover and Rating Labels	SPBICOVER ¹
Visible "On" Button Conversion	SPPBRONR

¹Special handling and order entry required to preserve UL Listing of switch. Contact Post Sale Service for additional details of special process.

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation

All devices UL listed for factory or field installation except where noted.



Key Interlock Kit (lock not included)

Key Interlock Provisions

The key interlock provision enables the user to mount a one- to four-cylinder, narrowfaced, Kirk-type FN or Superior customer-supplied lock on the face of the switch. This accessory provides mounting for key interlocks that are furnished by the customer. The key interlock provision works in conjunction with the padlock provision. The key interlock extends a lever through the padlock hasp when the key is turned to the key removal or bolt extended position. Additionally, the accessory provides a hasp for mounting three padlocks with 1/4" to 3/8" diameter shanks.

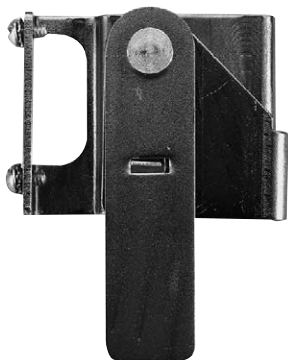
Key Interlock Reference Table

Product Number	Number of Locks	Kirk Key Lock Product Number	Superior Product Number
SPK4	1	KFN00001 ¹	S105827Y
SPK4	2	KFN00002 ¹	S105828Y
SPK4	3	KFN00003 ¹	S105829Y
SPK4	4	KFN00004 ¹	S105827-4Y

¹Final digit may be 0, 1, 2 or 3 depending on number of key removal positions.

Product Numbers, Key Interlock Provisions

Circuit Breaker Envelope Size (Amps)	Number of Key Locks	Field Installed Product Number	Factory Installed Product Number
All	1 to 4	SPK4R	SPK4



Door Interlock

Door Interlock

The door interlock provides interlocking of the switch compartment's hinged door so that the switch must be in the "OFF" position before the door can be opened. The door interlock is defeatable with a small tool to allow authorized access.

Field Installed Product Number	Factory Installed Product Number
SPDILR	SPDIL

Padlock Provisions (Standard)

Padlocking provisions are standard on all new generation HPC™ switches. When the switch is in the open position, and the padlock hasp is raised at least 1/4", the switch cannot be closed mechanically or electrically. The hasp accepts up to three padlocks with 1/4" to 3/8" diameter shanks.

HPC™, new generation high-pressure contact switch

Accessories

UL listed

Adapter Kits

(Accepts either lugs, bus, or Anderson VCEL VersaCrimp)
For Line or Load end of 3-pole switch.

Ampere Rating	Product Number
800A	THPCLUGA08
1200A 1600A	TPLUGA16

Field Installed Lugs Kits 800-1600 Ampere Switches - Direct Mounting

Field installed only. Kits consist of lugs and hardware for direct mounting to switch terminal straps (multiple-hole tang lugs) or lugs for mounting to 800 ampere terminal adapter kit. Order three kits for three-pole line or load end. For 1600-ampere, copper conductors must be used.

Ampere Rating	Accessory Type	Wire Range (Cu/Al)	Product Number
800A	Lug Kit Line & Lug Kit Load	(3) 300-750	THPCLUG308
1200A, 1600A	Lug Kit Line	(4) 500-800 kcmil	TPLUG408
1200A, 1600A	Lug Kit Load	(4) 500-800 kcmil	THPCLUG408

Field Installed Lugs Kits 2000-4000 Ampere Switches - Direct Mounting

Field installed only. To terminate line and load cables, must be used in conjunction with bus-connection adapter (T Studs). Each lug kit includes lugs, straps and hardware for three-phase line or load connections. Each cable lug accommodates 1-3/0 Cu or 250 kcmil Al to 800 kcmil Cu-Al. Accepts Anderson VersaCrimp when lugs are removed from straps.

Ampere Rating	No. of Lugs per Pole Line or Load End	Product Number
2000A	6	TSLUG20
2500A	7	TSLUG25
3000A	9	TSLUG30
4000A	11	TSLUG40

Field Installed T Studs

Field installed only. May be used to adapt line and load terminals of switch to vertical or horizontal bus arrangements. Three required for line or load connections on three-phase bus. Accepts either lugs, bolts, or Anderson VCEL VersaCrimp.

Basic Switch Rating (Amperes)	Product Number
800	THPC08FCA ¹
1200-1600	TP16FCA
2000	TS20FCA
2500	TS25FCA
3000	TS30FCA
4000	TS40FCA ² TS40LFCA ³

¹For vertical bussing only.

²For load terminals and left/right line terminals.

³For center pole, line terminal.

Lug Kits (For use with adapter only)

(Accepts either lugs, bus or Anderson VCEL Versa Crimp)
One per Product Number; standard carton contains:
6 - TPLUG106;
3 - TPLUG108.

Ampere Rating	No. of Lugs per Pole Line or Load End	Wire Range Cu/Al	Product Number
800A	3	(1) #2-600 kcmil or (2) 1/0-250 kcmil	TPLUG106
800A	3 6	(1) 3/0-800 kcmil Cu or (1) 250-800 kcmil Al	TPLUG108

Trimplate

Factory Installed Product Number	Field Installable Product Number
SPTRIMPLATE	SPTRIMPLATER

HPC™, new generation high-pressure contact switch

Accessories - HPC™ switch, new generation



TSVG Neutral Current Sensor

Neutral Current Sensors¹

HPC™ Switch Frame (Amperes)	HPC™ Switch Sensor Rating (Amperes)	Neutral Sensor Rating or Tap Settings (Amperes)	Product Number
800	200	200	TSVG302
	400	400/200	TSVG304A
	400	600/300 ²	TSVG306A
800-1600	800	800/400	TSVG308A
	1000	800/400 ²	TSVG808A
1600	1000	1000/500	TSVG810A
	1600	1200/600 ²	TSVG812A
	1600	1600/1000	TSVG816A
2000	2000	2000/1000	TSVG820A
	1000	800/400 ²	TSVG808A
3000	1000	1000/500	TSVG810A
	1000	1200/600 ²	TSVG812A
	1000	1600/1000 ²	TSVG816A
	2000	2000/1200	TSVG820A
	2500	2500/1800	TSVG825A
4000	3000	3000/2400	TSVG830A
	4000	4000/3000	TSVG940A

¹Match neutral current sensor rating (or tap setting) to new HPC™ switch sensor rating.

²For use with multiple source ground fault protection schemes. Rating does not match EntelliGuard™ TU frame sensor.



SSVG Neutral Current Sensors

Neutral Current Sensors¹

HPC™ Switch Frame (Amperes)	HPC™ Switch Sensor Rating (Amperes)	Neutral Sensor Rating or Tap Settings (Amperes)	Product Number of Window Sensor	Inside Diameter (inches)
800	800	800/400	SSVG808W	4.25
1200	12003	2000/1200	SSVG820W	5.63
	16003	1600/1000	SSVG816W	5.63
1600	1600	1600/1000	SSVG816W	5.63
2000	2000	2000/12003	SSVG820W	5.63
2500	2500	2500/1800	SSVG825W	5.63
3000	3000	4000/3000	SSVG940W	6.50
4000	4000	4000/3000	SSVG940W	6.50

¹Match neutral current sensor rating (or tap setting) to new HPC™ Switch sensor rating.

³At time of initial product release, the 1200A new HPC™ Switch was using 1600A installed sensors and a 1200A rating plug. Later models may or may not use 1200A phase sensors. Match Neutral sensor tap to HPC™ sensor rating.

HPC™, new generation high-pressure contact switch

HPC™ switch, new generation

Reference Publications

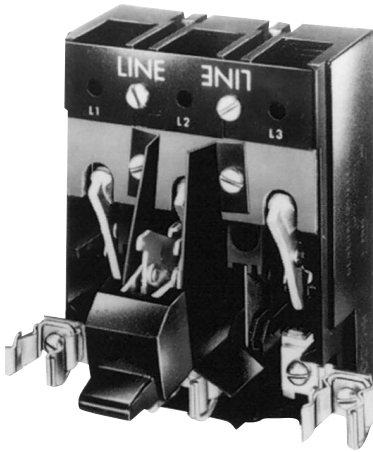
Auxiliary Switch Module	GEH-6274
Bell Alarm - Alarm Only	GEH-6275
Door Interlock	GEH-6276
Lugs & Adapters for 800-2000 A Frames	GEH-4546
Bell Alarm with Lockout	GEH-6278
Key Interlock Mounting Provision	GEH-6279
Mechanical Counter	GEH-6280
Motor Operator Mechanism	GEH-6281
Push Button Cover	GEH-6282
Remote Close	GEH-6283
Shunt Trip and Shunt Trip with Lockout (except 480 and 600 Vac)	GEH-6284
Shunt Trip and Shunt Trip with Lockout, 480 & 600 Vac	GEH-6519
Undervoltage Release (except 480 and 600 Vac)	GEH-6285
Undervoltage Release, 480 & 600 Vac	GEH-6520
Instructions, HPC™ Heat Sink Installation	DEH-41694
Instructions, HPC™ Blown Fuse Protector	DEH-41695
EntelliGuard™ TU Trip Unit	DEH-4567
HPC™ Switches, New Generation, User's Guide	DEH-41689
Time Current Curves HPC™ Switches, New Generation, Ground Fault	DES-121
Time Current Curves HPC™ Switches, New Generation, Adjustable Selective Instantaneous Trip, Reduced Energy Let-Through (RELT)	DES-122
HPC™ Switches, New Generation, Instantaneous Protection Guide	DEE-715

Premium duty QMW, heavy duty QMR

Individual components

30-200 Amperes

240, 480, 600 VAC, 250 VDC



QMW Premium Heavy-Duty Switch
(with Fuse Clips from Fuse Kit)

Product Description

QMR and QMW switches (30-200 amperes), fuse and no-fuse kits are UL Recognized Components, File E-36152, and UL Recognized to Canadian safety requirements under the Component Recognition Program of Underwriters Laboratories Inc.

The 30-200 ampere fusible switches are UL Recognized for use on circuits capable of delivering not more than 200,000 rms symmetrical amperes at 240 or 600Vac when fused with Class R rated size fuses. Refer to the table 7-3 for the appropriate Class R Fusing Kit. They are suitable for use with Type STDA flange handles and variable depth operating mechanisms on page 9-155.

Basic Switches - Premium Duty (QMW) and Heavy Duty (QMR)

Duty Type	Ampere Rating	Interrupting Rating Amperes Symmetrical 600Vac, 3-phase	Product Number
Premium Duty - QMW	30A	950	THMC31 ¹
Premium Duty - QMW	60A	1700	THMC32 ¹
Premium Duty - QMW	100A	1800	THMC33 ¹
Premium Duty - QMW	200A	3600	THMC34
Heavy Duty - QMR	30A	420	THMS31 ¹
Heavy Duty - QMR	60A	900	THMS32 ¹
Heavy Duty - QMR	100A	1700	THMS33 ¹
Heavy Duty - QMR	200A	3400	THMS34

Handle Operator: Order from pages 9-155 or 9-156.

¹Specify special screw kit if load risers are to be fastened from underside of base. Two screws required per switch; 10 screws in each product number THMC1 kit.

Premium duty QMW, heavy duty QMR

Individual components

30-200 Amperes

240, 480, 600 VAC, 250 VDC

Fuse and No-Fuse Kits - Horsepower Ratings 3-pole

Product Number	Description of Kit	HP Rating, AC, 3-Phase, NEC Std. Fuse @ 240Vac	HP Rating, AC, 3-Phase, NEC Std. Fuse @ 480Vac	HP Rating, AC, 3-Phase, NEC Std. Fuse @ 600Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 240Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 480Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 600Vac	HP Rating, 125Vdc	HP Rating, 250Vdc
THMC3100	No Fuse	-	-	-	7.5	20	25	3	5
THMC3200	No Fuse	-	-	-	20	40	50	5	10
THMC3300	No Fuse	-	-	-	30	60	75	-	20
THMC3400	No Fuse	-	-	-	60	125	150	-	40
THMC3121	30A, 240Vac/250Vdc	3	-	-	7.5	-	-	3	5
THMC3222	60A, 240Vac/250Vdc	5	-	-	15	-	-	5	10
THMC3161	30A, 600Vac	-	5	7.5	-	15	20	3	5
THMC3262	60A, 600Vac	-	15	20	-	40	50	5	10
THMC3363	100A, 240Vac/250Vdc 100A, 600Vac	10	25	30	30	60	75	-	20
THMC3364	200A, 600Vac	25	50	60	-	-	-	-	-
THMC3464	200A, 240Vac/250Vdc 200A, 600Vac	25	50	60	60	125	150	-	40
THMC3465	400A, 600Vac	50	100	125	-	-	-	-	-

Fuse and No-Fuse Kits (Includes load block, clips, and lugs)

Product Number	Description of Kit	Switch Product Number	Fuse Type	No. of Poles	Lug Wire Size
THMC3100 ²	No Fuse	THMC31 or THMS31	No Fuse	3	Wire Keeper Term. for #14-8 CU
THMC3200	No Fuse	THMC32 or THMS32	No Fuse	3	CU 14-2 AL 12-2
THMC3300	No Fuse	THMC33 or THMS33	No Fuse	3	CU 14-0 AL 12-0
THMC3400	No Fuse	THMC34 or THMS34	No Fuse	3	6-250 kcmil CU-AL
THMC3121 ¹	30A, 240Vac/250Vdc	THMC31 or THMS31	NEC Standard	3	Wire Keeper Term. for #14-8 CU
THMC3222 ¹	60A, 240Vac/250Vdc	THMC31 or THMS31	NEC Standard	3	Wire Keeper Term. for #14-8 CU
THMC3161 ¹	30A, 600Vac	THMC31 or THMS31	NEC Standard and Class J	3	Wire Keeper Term. for #14-8 CU
THMC3262 ¹	60A, 600Vac	THMC31 or THMS31	NEC Standard and Class J	3	Wire Keeper Term. for #14-8 CU
THMC3363	100A, 240Vac/250Vdc 100A, 600Vac	THMC32 or THMS32	NEC Standard and Class J	3	CU 14-2 AL 12-2
THMC3364	200A, 600Vac	THMC33 or THMS33	NEC Standard and Class J	3	CU 14-0 AL 12-0
THMC3464	200A, 240Vac/250Vdc 200A, 600Vac	THMC34 or THMS34	NEC Standard and Class J	3	6-250 kcmil CU-AL
THMC3465	400A, 600Vac	THMC34 or THMS34	NEC Standard and Class J	3	6-250 kcmil CU-AL

No-fuse ratings indicate switch capability as permitted by UL 508 (Ind. Cont. Equip.), additional hp ratings correspond to commercially available fuses. For DC use outer poles.

¹Can be used for one-step underfusing for next higher current-rated disconnect.

²Maximum UL listing 20 hp. at 600V.

Premium duty QMW, heavy duty QMR

Factory assembled fuse clips

Choice of handle style

30-600 Amperes

240, 480, 600 VAC, 250 VDC



QMR Disconnect with TDR Handle

Product Description

These 30-600 ampere disconnect switches are complete with Class H fuse clips except where noted, line/load lugs and handle operators, all factory assembled, and are mounted on a heavy gauge steel backplate. They are UL Recognized Components, File E-36152, and UL Recognized to Canadian safety requirements under the Component Recognition Program of Underwriters Laboratories Inc.

The 30-200 ampere fusible switches are UL Recognized for use on circuits capable of delivering not more than 200,000 rms symmetrical amperes at 240 or 600Vac when fused with Class R rated size fuses. Refer to the table below for the appropriate Class R Fusing Kit. Class H Fuse Clips are standard. Suitable for NEMA 1 and NEMA 12 enclosures.

Assembled with Lugs, Fuse Clips and Handle Operators - Horsepower Ratings

Duty Type	Disconnect Switch Rating (Amperes)	Max. HP Rating @ 240Vac 3-Phase	Max. HP Rating @ 480Vac 3-Phase	Max. HP Rating @ 600Vac 3-Phase	Max. HP Rating @ 250 Vdc	Product Number
Heavy Duty - QMR	30A	7.5	20	20	5	THMR3100
Heavy Duty - QMR	30A	7.5	-	-	5	THMR3121
Heavy Duty - QMR	30A	7.5	15	20	5	THMR3161
Heavy Duty - QMR	60A	20	40	50	10	THMR3200
Heavy Duty - QMR	60A	15	-	-	10	THMR3222
Heavy Duty - QMR	60A	-	30	50	10	THMR3262
Heavy Duty - QMR	100A	30	60	75	20	THMR3300
Heavy Duty - QMR	100A	30	60	75	20	THMR3363 ¹
Heavy Duty - QMR	200A	60	125	150	40	THMR3400
Heavy Duty - QMR	200A	60	125	150	40	THMR3464 ¹
Heavy Duty - QMR	400A	125	250	350	50	THMA35NF
Heavy Duty - QMR	400A	125	-	-	50	THMA3525
Heavy Duty - QMR	400A	125	250	350	-	THMA3565
Heavy Duty - QMR	400A	125	250	350	-	THMA35J5 ²
Heavy Duty - QMR	400A	125	250	350	50	THMRB35NF
Heavy Duty - QMR	400A	125	250	350	-	THMRB3565
Heavy Duty - QMR	400A	125	250	350	-	THMRB35J5 ²
Heavy Duty - QMR	600A	200	400	500	50	THMA36NF
Heavy Duty - QMR	600A	200	400	500	-	THMA3665
Heavy Duty - QMR	600A	200	400	500	-	THMA3666 ³
Heavy Duty - QMR	600A	200	400	500	-	THMA36J6 ²
Heavy Duty - QMR	600A	200	400	500	50	THMRB36NF
Heavy Duty - QMR	600A	200	400	500	-	THMRB3666 ³
Heavy Duty - QMR	600A	200	400	500	-	THMRB36J6 ²
Heavy Duty - QMR	600A	200	400	500	-	THMRB36L7 ⁴
Premium Duty - QMW	30A	7.5	-	-	5	THMCR3121
Premium Duty - QMW	30A	7.5	15	20	5	THMCR3161
Premium Duty - QMW	60A	20	40	50	10	THMCR3200
Premium Duty - QMW	60A	15	-	-	10	THMCR3222
Premium Duty - QMW	60A	-	30	50	10	THMCR3262
Premium Duty - QMW	100A	30	60	75	20	THMCR3300
Premium Duty - QMW	100A	30	60	75	20	THMCR3363
Premium Duty - QMW	200A	60	125	150	40	THMCR3400
Premium Duty - QMW	200A	60	125	150	40	THMCR3464

400 and 600 Ampere QMR units are UL Recognized on 100,000 Ampere rms circuits when fused with rated size Class J or R fuses.

Order Door Ring Interlock Kit—343L483G4; Gasket Kit—792A489G3.

400 and 600 Ampere switches with TDM handle have "pendulum" operation.

400 and 600 Ampere QMR units are UL Recognized on 100,000 Ampere rms circuits when fused with rated size Class J or R fuses.

¹Field convertible to 250 Volt fusing.

²Supplied with Class J fuse clips.

³600 Ampere, 600 Volt Class H fused to Class J fusing. Order kit Product Number THJ6. One kit required per switch. 400 Ampere units can be field converted by moving the

fuse block toward the switch.

⁴Supplied with Class L fuse clips.

Premium duty QMW, heavy duty QMR

Factory assembled fuse clips

Choice of handle style

30-600 Amperes

240, 480, 600 VAC, 250 VDC

Assembled Switches with Lugs, Fuse Clips and Handle Operators

Duty Type	Ampere Rating	Fuse Clip Rating (Ampere) @ 250Vdc Max.	Fuse Clip Rating (Ampere) @ 600Vac Max.	Handle Style	Lug Wire Size	Product Number
Heavy Duty - QMR	30A	No Fuse	No Fuse	TDR Rotary Handle	Wire Keeper, Term. for #14-8 Cu	THMR3100
Heavy Duty - QMR	30A	30	-	TDR Rotary Handle	Wire Keeper, Term. for #14-8 Cu	THMR3121
Heavy Duty - QMR	30A	-	30	TDR Rotary Handle	Wire Keeper, Term. for #14-8 Cu	THMR3161
Heavy Duty - QMR	60A	No Fuse	No Fuse	TDR Rotary Handle	CU 14-2 AL 12-2	THMR3200
Heavy Duty - QMR	60A	60	-	TDR Rotary Handle	CU 14-2 AL 12-2	THMR3222
Heavy Duty - QMR	60A	-	60	TDR Rotary Handle	CU 14-2 AL 12-2	THMR3262
Heavy Duty - QMR	100A	No Fuse	No Fuse	TDR Rotary Handle	10-1/0 Cu/Al	THMR3300
Heavy Duty - QMR	100A	100	100	TDR Rotary Handle	10-1/0 Cu/Al	THMR3363 ¹
Heavy Duty - QMR	200A	No Fuse	No Fuse	TDR Rotary Handle	6-250 kcmil Cu/Al	THMR3400
Heavy Duty - QMR	200A	200	200	TDR Rotary Handle	6-250 kcmil Cu/Al	THMR3464 ¹
Heavy Duty - QMR	400A	No Fuse	No Fuse	TDM Adjustable Shaft Handle	(1) # 22-600 kcmil Cu/Al or (2) 1/0-3/0 Cu or (2) 1/0-250 kcmil Al	THMA35NF
Heavy Duty - QMR	400A	400	-	TDM Adjustable Shaft Handle	(1) # 22-600 kcmil Cu/Al or (2) 1/0-3/0 Cu or (2) 1/0-250 kcmil Al	THMA3525
Heavy Duty - QMR	400A	-	400	TDM Adjustable Shaft Handle	(1) # 22-600 kcmil Cu/Al or (2) 1/0-3/0 Cu or (2) 1/0-250 kcmil Al	THMA3565
Heavy Duty - QMR	400A	-	400	TDM Adjustable Shaft Handle	(1) # 22-600 kcmil Cu/Al or (2) 1/0-3/0 Cu or (2) 1/0-250 kcmil Al	THMA35J5 ²
Heavy Duty - QMR	400A	No Fuse	No Fuse	TDR Rotary Handle	(1) # 22-600 kcmil Cu/Al or (2) 1/0-3/0 Cu or (2) 1/0-250 kcmil Al	THMRB35NF
Heavy Duty - QMR	400A	-	400	TDR Rotary Handle	(1) # 22-600 kcmil Cu/Al or (2) 1/0-3/0 Cu or (2) 1/0-250 kcmil Al	THMRB3565
Heavy Duty - QMR	400A	-	400	TDR Rotary Handle	(1) # 22-600 kcmil Cu/Al or (2) 1/0-3/0 Cu or (2) 1/0-250 kcmil Al	THMRB35J5 ²
Heavy Duty - QMR	600A	No Fuse	No Fuse	TDM Adjustable Shaft Handle	(2) # 4-600 kcmil Cu/Al	THMA36NF
Heavy Duty - QMR	600A	400	400	TDM Adjustable Shaft Handle	(2) # 4-600 kcmil Cu/Al	THMA3665
Heavy Duty - QMR	600A	-	600	TDM Adjustable Shaft Handle	(2) # 4-600 kcmil Cu/Al	THMA3666 ³
Heavy Duty - QMR	600A	-	600	TDM Adjustable Shaft Handle	(2) # 4-600 kcmil Cu/Al	THMA36J6 ²
Heavy Duty - QMR	600A	No Fuse	No Fuse	TDR Rotary Handle	(2) # 4-600 kcmil Cu/Al	THMRB36NF
Heavy Duty - QMR	600A	-	600	TDR Rotary Handle	(2) # 4-600 kcmil Cu/Al	THMRB3666 ³
Heavy Duty - QMR	600A	-	600	TDR Rotary Handle	(2) # 4-600 kcmil Cu/Al	THMRB36J6 ²
Heavy Duty - QMR	600A	-	800	TDR Rotary Handle	(2) # 4-600 kcmil Cu/Al	THMRB36L7 ⁴

400 and 600 Ampere QMR units are UL Recognized on 100,000 Ampere rms circuits when fused with rated size Class J or R fuses.

Order Door Ring Interlock Kit - 343L483G4. Gasket Kit - 792A489G3.

400 and 600 Ampere switches with TDM handle have "pendulum" operation.

400 and 600 Ampere QMR units are UL Recognized on 100,000 Ampere rms circuits when fused with rated size Class J or R fuses.

¹Field convertible to 250 Volt fusing.

²Supplied with Class J fuse clips.

³600 Ampere, 600 Volt Class H fused to Class J fusing. Order kit Product Number THJ6. One kit required per switch. 400 Ampere units can be field converted by moving the fuse block toward the switch.

⁴Supplied with Class L fuse clips.

Premium duty QMW, heavy duty QMR

Factory assembled fuse clips

Choice of handle style

30-600 Amperes

240, 480, 600 VAC, 250 VDC

Assembled Switches with Lugs, Fuse Clips and Handle Operators (Continued)

Duty Type	Ampere Rating	Fuse Clip Rating (Ampere) @ 250Vdc Max.	Fuse Clip Rating (Ampere) @ 600Vac Max.	Handle Style	Lug Wire Size	Product Number
Premium Duty - QMW	30A	30	-	TDR Rotary Handle	Wire Keeper, Term. for #14-8 Cu	THMCR3121
Premium Duty - QMW	30A	-	30	TDR Rotary Handle	Wire Keeper, Term. for #14-8 Cu	THMCR3161
Premium Duty - QMW	60A	No Fuse	No Fuse	TDR Rotary Handle	CU 14-2 AL 12-2	THMCR3200
Premium Duty - QMW	60A	60		TDR Rotary Handle	CU 14-2 AL 12-2	THMCR3222
Premium Duty - QMW	60A		60	TDR Rotary Handle	CU 14-2 AL 12-2	THMCR3262
Premium Duty - QMW	100A	No Fuse	No Fuse	TDR Rotary Handle	10-1/0 Cu/Al	THMCR3300
Premium Duty - QMW	100A	100	100	TDR Rotary Handle	10-1/0 Cu/Al	THMCR3363
Premium Duty - QMW	200A	No Fuse	No Fuse	TDR Rotary Handle	6-250 kcmil Cu/Al	THMCR3400
Premium Duty - QMW	200A	200	200	TDR Rotary Handle	6-250 kcmil Cu/Al	THMCR3464

400 and 600 Ampere QMR units are UL Recognized on 100,000 Ampere rms circuits when fused with rated size Class J or R fuses.

Order Door Ring Interlock Kit - 343L483G4. Gasket Kit - 792A489G3.

400 and 600 Ampere switches with TDM handle have "pendulum" operation.

400 and 600 Ampere QMR units are UL Recognized on 100,000 Ampere rms circuits when fused with rated size Class J or R fuses.

¹Field convertible to 250 Volt fusing.

²Supplied with Class J fuse clips.

³600 Ampere, 600 Volt Class H fused to Class J fusing. Order kit Product Number THJ6. One kit required per switch. 400 Ampere units can be field converted by moving the fuse block toward the switch.

⁴Supplied with Class L fuse clips.

Class R Fusing Conversion Kits

Switch Rating		Field Installed
Amperes	Volts	Product Number
30	250Vdc	TPBRK12A
30	600Vac	TPBRK16A
60	250Vdc	TPBRK22A
60	600Vac	TPBRK26A
100	250Vdc/600Vac	TPBRK36A
200	250Vdc/600Vac	TRK46A
400	250Vdc/600Vac	TPBRK56A ⁵
600	250Vdc/600Vac	TRK66A ⁵

⁵Not Suitable for use with individual components shown on pages 9-152 or 9-153.

Handle operators



Flange Handle, STDA1

Product Description

Type STDA Flange Handles and Variable Depth Operating Mechanisms For Use With QMR/QMW 30-200A Disconnects

- Designed to meet automotive duty specifications.
- NEMA 12/13 and 4/4X, UL Recognized Components, File E-57253, and UL Recognized to Canadian safety requirements under the Component Recognition Program of Underwriters Laboratories Inc.
- For right- or left-hand flange mounting – field convertible.
- Mounting dimensions to fit standard flange enclosures 8"-24" deep.
- Positive "ON-OFF" Indication
Green (OFF), Red (ON), provides visual indication regarding the position of the switch contacts.
- Drilling templates and detailed installation instructions.

Flange Handle Selection

Product Number STDA1 (6-inch) and STDA2 (10-inch) flange handles are interchangeable. While all operating mechanisms can be easily operated with the 6-inch STDA1 handle, the 10-inch STDA2 may be used to obtain lower operating force and/or to provide a proportionally larger handle on large enclosures.

Construction Details

Flange Handles

- Rugged aluminum alloy cast housing with provision for locking in off position with up to three 3/16- to 5/16-inch diameter padlocks.
- Optional provision for locking on by drilling hole in die casting.
- O-ring seals for dust-tight/oil-tight duty.
- Gusseted, 3/32-in. thick double-sided steel handle with large, red-black self-extinguishing grade plastic grip.

Variable Depth Operating Mechanisms

- Plated steel yokes and integral mounting plates are 1/8-inch thick minimum.
- Operating yokes have toggle spring assist for positive on/off operation.
- Mounting plates include positive yoke stops to prevent undue wear on disconnect and circuit breaker toggle handles.
- Threaded 3/8-in. dia. drive rod (16-in. length – standard, 22-in. length – optional) provides simple variable depth connection between flange-mounted handle and operating mechanism.
- Suitable for use with Hoffman Bulletin A-25 or equivalent enclosures.

Flange Handles

Enclosure Type	Nominal Length (Inches)	Installation Instruction Number	Drilling Template Number	Product Number
NEMA Type 12/13	6	GEH-5314	GEH-5314	STDA1
NEMA Type 12/13	10	GEH-5314	GEH-5314	STDA2
NEMA Type 4/4X	6	GEH-5314	GEH-5314	STDA1X
NEMA Type 4/4X	10	GEH-5314	GEH-5314	STDA2X

Operating Mechanism Selection

Disconnect Description	QMR/QMW/Flange Handle Product Number	Operating Mechanism Installation Instruction No.	Product Number
30-100A unfused; 30A-250V fused	STDA1, 1X or STDA2, 2X	GEH-5315	TDOM1A
30-100A 600V fused; 60A & 100A 250V fused	STDA1, 1X or STDA2, 2X	GEH-5315	TDOM1B
200A fused or unfused	STDA1, 1X or STDA2, 2X	GEH-5316	TDOM2

Select individual QMR or QMW disconnect and fuse or no-fuse kit from page 9-151.

Accessories and modifications

For type STDA flange handles and operating mechanisms

Auxiliary Contact Kit

Available SPDT and DPDT and actuated by operating mechanism yoke.

Contacts	Used With Operating Mechanism Product Number	When TDA handle is on Right Flange	When TDA handle is on Left Flange	Product Number
SPDT	TDOM1A, TDOM1B, TDOM2	•	-	TDAS1L1
SPDT	TDOM1A, TDOM1B, TDOM2	-	•	TDAS1R1
DPDT	TDOM1A, TDOM1B, TDOM2	•	-	TDAS1L2
DPDT	TDOM1A, TDOM1B, TDOM2	-	•	TDAS1R2

Auxiliary Contact Electrical Ratings

Type	AC Voltage				DC Voltage Double Throw		
	120	240	480	600	120	240	600
1-Pole	120	240	480	600	120	240	600
Make	40	20	20	8	0.5	0.2	.02
Break	15	10	6	5	0.5	0.2	.02
2-Pole	30	15	8	6	0.2	0.1	-
Make	3	1.5	1	0.8	0.2	0.1	-
Break							

Flange Stiffener Kit, Extended Drive Rod

Provides rigid 3/8-inch diameter rod between STDA handle mounting surface (flange or center mullion) and operating mechanism when STDA handle would otherwise not be rigidly supported.

Rod length is 22 inches and may be cut to appropriate length. Also used as extended length drive rod when standard 16-inch rod is not long enough.

Used With Operating Mechanism Product Number	Product Number
TDOM1A, 1B, TDOM2	TDSR

Extended Drive Stud

This optional drive stud permits locating the operating mechanism 1 5/16 inches further to the left (when flange handle is on right side) or to the right (when handle is on left side) to accommodate specific mounting restrictions.

Used With Operating Mechanism Product Number	Product Number
TDOM1A, TDOM1B, TDOM2	TDS1

Door Hardware, NEMA 12/12 and 4/4X

Type TDV door hardware provides sealing and interlocking of 3/4-inch nominal door depth hinged on left or right.

Interlocking design requires use of screwdriver to release.

When used with STDA flange handle and operating mechanisms, disconnect or circuit breaker cannot be turned on unless door and door hardware have been closed. For noninterlocking type, one bracket in kit is not used. Use of third-point latch recommended for doors 40 inches or longer.

Accessory Type	Description	Product Number
Door Hardware - Left Hinged	NEMA 12/13 two-point interlocking door hardware kit	TDV1
Door Hardware - Left Hinged	NEMA 4/4X two-point interlocking door hardware kit	TDV1X
Door Hardware - Left Hinged	Third-point latch kit for above	TDV3
Door Hardware - Right Hinged	NEMA 12/13 two-point interlocking door hardware kit	TDV1L
Door Hardware - Right Hinged	Third-point latch kit for above	TDV3L

Agency Certifications

STDA accessories are UL Recognized Components, File E-36152, and UL Recognized to Canadian safety requirements under the Component Recognition Program of Underwriters Laboratories Inc.

Reference Publications

Door Hardware	GEH-5322
Auxiliary Contact Kit	GEH-5323
Flange Stiffener Kit or Extended-Length Drive Rod	GEH-5324
Extended Drive Stud	GEH-5325
Operating Mechanism:	
TDOM1A through TDOM1B	GEH-5315
TDOM2	GEH-5316

Accessories and modifications

Overpack Kits

QMW disconnect switch, fuse kit with copper lugs, operating mechanism and STDA1 flange handle packed in a single carton.

QMW with Copper Lugs for Copper Cables Only and Class R Rejection Clips for Class R Fusing

Ampere Rating	Fuse Clip Rating (Ampere)	System Voltage	Fuse Kit Prod. No. (or No-Fuse Kit Prod. No.)	Variable Depth Operating Mechanism Prod. No.	Product Number
30A	No Fuse	No Fuse	THMC3200CL	TDOM1A	STDAD3NF
30A	30	250Vdc	THMC3121CLR	TDOM1A	STDAD332R
30A	30	600Vac	THMC3161CLR	TDOM1B	STDAD336R
60A	No Fuse	No Fuse	THMC3200CL	TDOM1A	STDAD6NF
60A	60	250Vdc	THMC3222CLR	TDOM1B	STDAD662R
60A	60	600Vac	THMC3262CLR	TDOM1B	STDAD666R
100A	No Fuse	No Fuse	THMC3300CL	TDOM1A	STDAD1NF
100A	100	250Vdc 600Vac	THMC3363CLR	TDOM1B	STDAD100R
200A	No Fuse	No Fuse	THMC3400CL	TDOM2	STDAD2NF
200A	200	250Vdc 600Vac	THMC3464CLR	TDOM2	STDAD200R

QMW with Copper Lugs for Copper Cables Only and Class J Clips for Class J Fusing

Ampere Rating	Fuse Clip Rating (Ampere)	System Voltage	Fuse Kit Prod. No. (or No-Fuse Kit Prod. No.)	Variable Depth Operating Mechanism Prod. No.	Product Number
30A	30	600Vac	THMC3161CL	TDOM1JA	STDAD336J
30A	60	600Vac	THMC3262CL	TDOM1JB	STDAD3362J
60A	60	600Vac	THMC3262CL	TDOM1JB	STDAD666J
60A	100	600Vac	THMC3363CL	TDOM1JA	STDAD6663J
100A	100	600Vac	THMC3363CL	TDOM1JA	STDAD106J
100A	200	600Vac	THMC3364CL	TDOM1A	STDAD1064J
200A	200	600Vac	THMC3464CL	TDOM2	STDAD206J
200A	400	600Vac	THMC3465	TDOM2	STDAD2065J

General-duty HCI

Individual components

30-200 Amperes

240, 480, 600 VAC, 250 VDC

Fuse Clip and No Fuse Kits – Horsepower Ratings

For Basic Switches with 600 Volt Industrial Control and 250 Volt Enclosed Switch and Switchboard Clearance Spacings

Basic Switch Rating	HP Rating, AC, 3-Phase, NEC Standard @ 240Vac	HP Rating, AC, 3-Phase, NEC Standard @ 480Vac	HP Rating, AC, 3-Phase, NEC Standard @ 600Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 240Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 480Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 600Vac	HP Rating, 250Vdc	Product Number
30 Ampere 3-Pole	-	-	-	7.5	15	20	5	THC3100 ^{1,3}
30 Ampere 3-Pole	3	-	-	7.5	-	-	5	THC3121
30 Ampere 3-Pole	-	5	7.5	-	15	20	-	THC3161
30 Ampere 3-Pole	-	5	7.5	-	15	20	-	THC31J1
30 Ampere 3-Pole	7.5	-	-	-	-	-	-	THC3122
30 Ampere 3-Pole	-	15	15	-	-	-	-	THC3162
30 Ampere 3-Pole	-	15	15	-	-	-	-	THC31J2
60 Ampere 3-Pole	-	-	-	15	30	50	10	THC3200 ²
60 Ampere 3-Pole	3	-	-	-	-	-	10	THC3221 ²
60 Ampere 3-Pole	-	5	7.5	-	-	-	-	THC3261 ²
60 Ampere 3-Pole	7.5	-	-	15	-	-	-	THC3222 ²
60 Ampere 3-Pole	-	15	15	-	30	50	-	THC3262 ²
60 Ampere 3-Pole	-	15	15	-	30	50	-	THC32J2 ²
60 Ampere 3-Pole	15	-	-	-	-	-	-	THC3223 ²
60 Ampere 3-Pole	-	25	30	-	-	-	-	THC3263 ²
60 Ampere 3-Pole	-	25	30	-	-	-	-	THC32J3 ²
100 Ampere 3-Pole	-	-	-	30	60	75	20	THC3300
100 Ampere 3-Pole	7.5	-	-	-	-	-	20	THC3322
100 Ampere 3-Pole	-	15	15	-	-	-	-	THC3362
100 Ampere 3-Pole	15	-	-	30	-	-	-	THC3323
100 Ampere 3-Pole	-	25	30	-	60	75	-	THC3363
100 Ampere 3-Pole	-	25	30	-	60	75	-	THC33J3
100 Ampere 3-Pole	25	-	-	-	-	-	-	THC3324
100 Ampere 3-Pole	-	50	60	-	-	-	-	THC3364
100 Ampere 3-Pole	-	50	60	-	-	-	-	THC33J4
200 Ampere 3-Pole	-	-	-	60	100	100	40	THC3400
200 Ampere 3-Pole	15	-	-	-	-	-	40	THC3423
200 Ampere 3-Pole	-	25	30	-	-	-	-	THC3463
200 Ampere 3-Pole	-	25	30	-	-	-	-	THC34J3
200 Ampere 3-Pole	25	-	-	60	-	-	-	THC3424
200 Ampere 3-Pole	-	50	60	-	100	100	-	THC3464
200 Ampere 3-Pole	-	50	60	-	100	100	-	THC34J4
200 Ampere 3-Pole	50	-	-	-	-	-	-	THC3425
200 Ampere 3-Pole	-	100	100	-	-	-	-	THC3465
200 Ampere 3-Pole	-	100	100	-	-	-	-	THC34J5

Auxiliary switch (SPDT) for HCI rated .5 ampere at 125Vdc, .25 ampere at 250Vdc, 15 ampere at 480Vac. Product Number 343L296G2.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHTY2) for mounting in a vertical position, line side up. UL File E-36152.

Line shield included with THC31 and THC31S. All other line shields included with fuse-clip or no-fuse kits.

For **Two-pole applications** – Use two poles of three-pole switch.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHTY2) for mounting in a vertical position, line side up. UL File E-36152.

Inside enclosure depth may be reduced to these depths while maintaining electrical spacings—requires cutting handle shaft.

¹Suitable for 25 hp @ 600 V but not UL listed.

²Basic switch with UL 600 Volt industrial control spacings only.

³For 30 ampere switch with 600 Volt enclosed switch spacing and 60 ampere terminals, order Product Number THC31S5E.

General-duty HCI

Individual components

30-200 Amperes

240, 480, 600 VAC, 250 VDC

Fuse and No-Fuse Kits – Horsepower Ratings

For Basic Switches with 600 Volt Enclosed Switch and Switchboard Clearance Spacings

Basic Switch Rating	HP Rating, AC, 3-Phase, NEC Standard @ 240Vac	HP Rating, AC, 3-Phase, NEC Standard @ 480Vac	HP Rating, AC, 3-Phase, NEC Standard @ 600Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 240Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 480Vac	HP Rating, AC, 3-Phase, Time-Delay Fuse @ 600Vac	HP Rating, 250Vdc	Product Number
30 Ampere 3-Pole	3	5	7.5	-	15	20	5	THC31S61 ^{1,3}
30 Ampere 3-Pole	3	5	7.5	-	15	20	5	THC31SJ1 ^{1,3}
30 Ampere 3-Pole	-	-	-	7.5	15	20	5	THC3100 ^{1,3}
60 Ampere 3-Pole	7.5	15	15	-	30	50	10	THC32S62
60 Ampere 3-Pole	7.5	15	15	-	30	50	10	THC32SJ2
60 Ampere 3-Pole	-	-	-	15	30	50	10	THC3200 ²
100 Ampere 3-Pole	-	25	30	-	60	75	-	THC3363
100 Ampere 3-Pole	-	25	30	-	60	75	-	THC33J3
100 Ampere 3-Pole	-	-	-	30	60	75	20	THC3300
200 Ampere 3-Pole	-	50	60	-	100	100	-	THC3464
200 Ampere 3-Pole	-	50	60	-	100	100	-	THC34J4
200 Ampere 3-Pole	-	-	-	60	100	100	40	THC3400

Auxiliary switch (SPDT) for HCI rated .5 ampere at 125Vdc, .25 ampere at 250Vdc, 15 ampere at 480Vac. Product Number 343L296G2.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHY2) for mounting in a vertical position, line side up. UL File E-36152.

Line shield included with THC31 and THC31S. All other line shields included with fuse-clip or no-fuse kits.

For **Two-pole applications** – Use two poles of three-pole switch.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHY2) for mounting in a vertical position, line side up. UL File E-36152.

Inside enclosure depth may be reduced to these depths while maintaining electrical spacings—requires cutting handle shaft.

¹Suitable for 25 hp @ 600 V but not UL listed.

²Basic switch with UL 600 Volt industrial control spacings only.

³For 30 ampere switch with 600 Volt enclosed switch spacing and 60 ampere terminals, order Product Number THC31SSE.

General-duty HCI

Individual components

30-200 Amperes

240, 480, 600 VAC, 250 VDC

Fuse Clip and No Fuse Kits

For Basic Switches with 600 Volt Industrial Control and 250 Volt Enclosed Switch and Switchboard Clearance Spacings

Basic Switch Rating	Basic Switch Product Number	Fuse Type	Fuse Kit Rating	Product Number
30 Ampere 3-Pole	THC31S	No Fuse	No Fuse - 600	THC3100 ^{1,3}
30 Ampere 3-Pole	THC31	NEC Standard	30A, 240Vac/250Vdc	THC3121
30 Ampere 3-Pole	THC31	NEC Standard	30A, 600Vac	THC3161
30 Ampere 3-Pole	THC31	Class J	30A, 600Vac	THC31J1
30 Ampere 3-Pole	THC31	NEC Standard	60A, 240Vac/250Vdc	THC3122
30 Ampere 3-Pole	THC31	NEC Standard	60A, 600Vac	THC3162
30 Ampere 3-Pole	THC31	Class J	60A, 600Vac	THC31J2
60 Ampere 3-Pole	THC32S	No Fuse	No Fuse - 600	THC3200 ²
60 Ampere 3-Pole	THC32	NEC Standard	30A, 240Vac/250Vdc	THC3221 ²
60 Ampere 3-Pole	THC32	NEC Standard	30A, 600Vac	THC3261 ²
60 Ampere 3-Pole	THC32	NEC Standard	60A, 240Vac/250Vdc	THC3222 ²
60 Ampere 3-Pole	THC32	NEC Standard	60A, 600Vac	THC3262 ²
60 Ampere 3-Pole	THC32	Class J	60A, 600Vac	THC32J2 ²
60 Ampere 3-Pole	THC32	NEC Standard	100A, 240Vac/250Vdc	THC3223 ²
60 Ampere 3-Pole	THC32	NEC Standard	100A, 600Vac	THC3263 ²
60 Ampere 3-Pole	THC32	Class J	100A, 600Vac	THC32J3 ²
100 Ampere 3-Pole	THC33S	No Fuse	No Fuse - 600	THC3300
100 Ampere 3-Pole	THC33	NEC Standard	60A, 240Vac/250Vdc	THC3322
100 Ampere 3-Pole	THC33	NEC Standard	60A, 600Vac	THC3362
100 Ampere 3-Pole	THC33	NEC Standard	100A, 240Vac/250Vdc	THC3323
100 Ampere 3-Pole	THC33S	NEC Standard	100A, 600Vac	THC3363
100 Ampere 3-Pole	THC33S	Class J	100A, 600Vac	THC33J3
100 Ampere 3-Pole	THC33	NEC Standard	200A, 240Vac/250Vdc	THC3324
100 Ampere 3-Pole	THC33	NEC Standard	200A, 600Vac	THC3364
100 Ampere 3-Pole	THC33	Class J	200A, 600Vac	THC33J4
200 Ampere 3-Pole	THC34S	No Fuse	No Fuse - 600	THC3400
200 Ampere 3-Pole	THC34	NEC Standard	100A, 240Vac/250Vdc	THC3423
200 Ampere 3-Pole	THC34	NEC Standard	100A, 600Vac	THC3463
200 Ampere 3-Pole	THC34	Class J	100A, 600Vac	THC34J3
200 Ampere 3-Pole	THC34	NEC Standard	200A, 240Vac/250Vdc	THC3424
200 Ampere 3-Pole	THC34	NEC Standard	200A, 600Vac	THC3464
200 Ampere 3-Pole	THC34	Class J	200A, 600Vac	THC34J4
200 Ampere 3-Pole	THC34	NEC Standard	400A, 240Vac/250Vdc	THC3425
200 Ampere 3-Pole	THC34	NEC Standard	400A, 600Vac	THC3465
200 Ampere 3-Pole	THC34	Class J	400A, 600Vac	THC34J5

Auxiliary switch (SPDT) for HCI rated .5 ampere at 125Vdc, .25 ampere at 250Vdc, 15 ampere at 480Vac. Product Number 343L296G2.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHTY2) for mounting in a vertical position, line side up. UL File E-36152. Line shield included with THC31 and THC31S. All other line shields included with fuse-clip or no-fuse kits.

For **Two-pole applications** – Use two poles of three-pole switch.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHTY2) for mounting in a vertical position, line side up. UL File E-36152. Inside enclosure depth may be reduced to these depths while maintaining electrical spacings – requires cutting handle shaft.

¹Suitable for 25 hp @ 600 V but not UL listed.

²Basic switch with UL 600 Volt industrial control spacings only.

³For 30 ampere switch with 600 Volt enclosed switch spacing and 60 ampere terminals, order Product Number THC31SSE.

General-duty HCI

Individual components

30-200 Amperes

240, 480, 600 VAC, 250 VDC

Fuse Clip and No-Fuse Kits

For Basic Switches with 600 Volt Enclosed Switch and Switchboard Clearance Spacings

Basic Switch Rating	Basic Switch Product Number	Fuse Type	Fuse Kit Rating	Product Number
30 Ampere 3-Pole	THC31S	NEC Standard	30A, 600Vac	THC31S61 ^{1,3}
30 Ampere 3-Pole	THC31S	Class J	30A, 600Vac	THC31SJ1 ^{1,3}
30 Ampere 3-Pole	THC31S	No Fuse	No Fuse - 600	THC3100 ^{1,3}
60 Ampere 3-Pole	THC32S	NEC Standard	60A, 600Vac	THC32S62
60 Ampere 3-Pole	THC32S	Class J	60A, 600Vac	THC32SJ2
60 Ampere 3-Pole	THC32S	No Fuse	No Fuse - 600	THC3200 ²
100 Ampere 3-Pole	THC33S	NEC Standard	100A, 600Vac	THC3363
100 Ampere 3-Pole	THC33S	Class J	100A, 600Vac	THC33J3
100 Ampere 3-Pole	THC33S	No Fuse	No Fuse - 600	THC3300
200 Ampere 3-Pole	THC34	NEC Standard	200A, 600Vac	THC3464
200 Ampere 3-Pole	THC34	Class J	200A, 600Vac	THC34J4
200 Ampere 3-Pole	THC34S	No Fuse	No Fuse - 600	THC3400

Auxiliary switch (SPDT) for HCI rated .5 ampere at 125Vdc, .25 ampere at 250Vdc, 15 ampere at 480Vac. Product Number 343L296G2.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHTY2) for mounting in a vertical position, line side up. UL File E-36152. Line shield included with THC31 and THC31S. All other line shields included with fuse-clip or no-fuse kits.

For **Two-pole applications** – Use two poles of three-pole switch.

HCI switches, fuse and no-fuse kits, are listed in UL "Recognized Component Index" (WHTY2) for mounting in a vertical position, line side up. UL File E-36152.

Inside enclosure depth may be reduced to these depths while maintaining electrical spacings—requires cutting handle shaft.

¹Suitable for 25 hp @ 600 V but not UL listed.

²Basic switch with UL 600 Volt industrial control spacings only.

³For 30 ampere switch with 600 Volt enclosed switch spacing and 60 ampere terminals, order Product Number THC31SSE.

TDR handle mechanism

Handle operating mechanisms



TDR Handle

TDR Integral Handle Mechanism for QMR/QMW Disconnects

- Rotary operating handle mounts directly to disconnect.
- Operates through enclosure door - mechanical interlock designed to prevent unauthorized opening of enclosure when disconnect is ON.
- Locking hasp accommodates up to three padlocks.
- Suitable for use with NEMA 1, 12, and 12K enclosures.
- UL Recognized Components, File E-36152.

Integral Handles (Separate Kits for Field Assembly)

Accessory Type	Ampere Rating	Add to Switch Product No. Suffix for Factory Assembly	Product Number
Integral Handle, Vertical	30A, 60A, 100A	V1	THMR1B
Integral Handle, Vertical	200A	V2	THMR2B
Integral Handle, Horizontal	30A, 60A, 100A	H1	THMR1HB
Integral Handle, Horizontal	200A	H1	THMR2HB
Door ring interlock	-	-	SEFRDRCK
Gasket kit	-	-	SEFRGSK

Auxiliary Switches (Separate Kits for Field Assembly)

Accessory Type	Ampere Rating	Add to Integral Handle Product No. Suffix for Factory Installation	Product Number
Auxiliary Switch	100	AS1	343L492G1
Auxiliary Switch	200	AS2	343L492G2