

Disconnect Switches

Fusible
Non-fusible
Enclosed

AC1240



Non-fusible • Fusible

Disconnect switches



Disconnect Switches

- Compact, heavy duty

SwitchLine

Non-fusible disconnect switches1.1 - 1.42

PowerLine

Fusible disconnect switches2.1 - 2.32

SafeLine

Enclosed disconnect switches3.1 - 3.12

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SwitchLine Non-fusible Disconnect switches

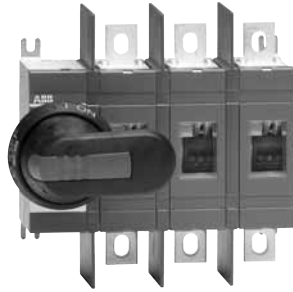


SwitchLine

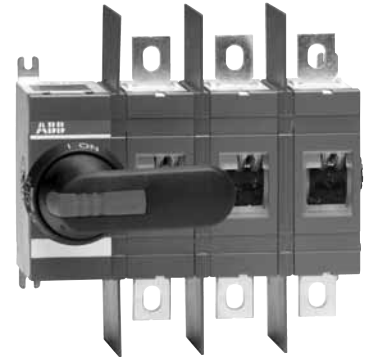
Non-fusible disconnect switches

Compact, Heavy duty

16A – 2000A, 600V



OT200U



OT400U

ABB SwitchLine includes 16 different amperage sizes from 16A to 2000A. The basic construction provides flexibility, safety, and high performance in an extremely compact size. ABB SwitchLine is a perfect choice for all switching applications from industrial motor control to construction safety switches.

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Overview

Non-fusible disconnect switches

OT16E3 – OT100E3



OT16E3 OT25E3 OT32E3



OT45E3 OT63E3



OT30E3 OT60E3 OT100E3

Catalog number	3 pole	OT16E3	OT25E3	OT32E3	OT45E3	OT63E3	OT30E3	OT60E3	OT100E3
General purpose amp rating	A	16	25	40	60	80	30	60	100
Catalog reference	Page #	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Approvals ^①									
	2 pole	—	—	—	—	—	—	—	—
	3 pole	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	4 pole	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
Technical ratings									
CSA,UL^②									
Max operating voltage	V	600	600	600	600	600	600	600	600
Max horsepower rating									
Three phase									
	208V HP	3	7.5	10	15	20	10	20	25
	240V HP	5	7.5	10	15	20	10	20	30
	480V HP	10	15	20	30	40	20	40	50
	600V HP	10	20	25	30	40	30	40	50
Single phase									
	120V HP	1	1.5	2	2	2	2	3	5
	240V HP	2	3	5	7.5	10	5	7.5	15
Technical ratings									
IEC^③									
Rated insulation and operational voltage, AC20 and DC20 ^④	V	750	750	750	750	750	750	750	750
Rated thermal current, I _{th}									
AC 20/DC 20 open	A	25	32	40	63	80	40	63	115
AC 20/DC 20 enclosed	A	25	32	40	63	80	40	63	115
AC 21A ≤ 500V	A	16	25	40	63	80	40	63	100
690V	A	16	25	40	63	80	40	63	100
Rated operational power AC23									
400/415V	kW	7.5	9	11	22	37	15	18.5	37
690V	kW	7.5	9	11	15	18.5	15	15	37
Physical characteristics									
Weight ^④ 3 pole	Kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	0.36
Dimension 3 pole									
	H mm	68	68	68	91	91	100	100	100
	W mm	35	35	35	53	53	70	70	70
	D mm	56	56	56	72	72	75	75	75
Accessories									
Terminal lug kit		Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Terminal shroud		•	•	•	•	•	•	•	•
Auxiliary contact		•	•	•	•	•	•	•	•
Handle CSA/UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Handle type									
Selector		•	•	•	•	•	•	•	•
Pistol		•	•	•	•	•	•	•	•
Conversion kits									
6 pole		•	•	•	•	•	•	•	•
Transfer		•	•	•	•	•	•	•	•
Bypass		•	•	•	•	•	•	•	•
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		—	—	—	—	—	—	—	—

• = Available
— = Not available

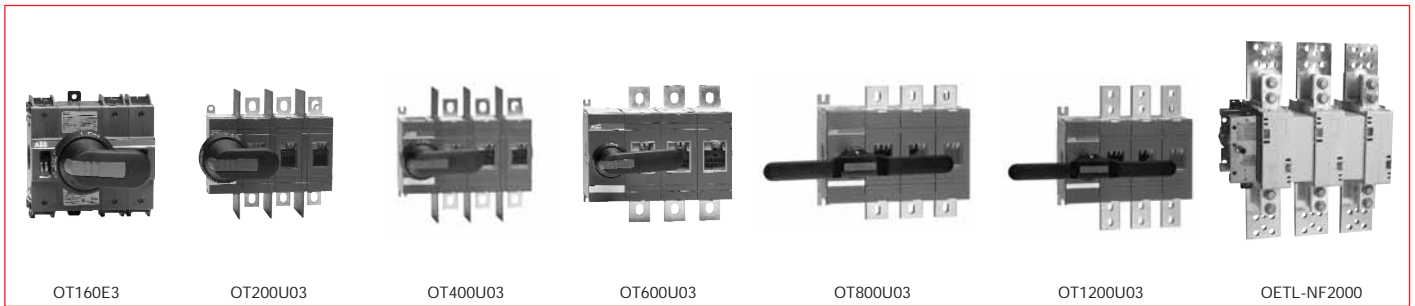
CSA approved, UL listed, IEC rated, CE marked

① CSA approved switches are also UL listed.
② For complete technical information please see page 1.28 – 1.35.
③ 1000V, IEC 408.
④ Switch only

Overview

Non-fusible disconnect switches

OT160E3 – OETL-NF2000



Catalog number	3 pole	OT160E3	OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OETL-NF1600	OETL-NF2000
General purpose amp rating	A	125	200	400	600	800	1200	1600	2000
Catalog reference	Page #	1.15	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Approvals^①	2 pole 3 pole 4 pole	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 IEC	CSA C22.2 No.4 CSA C22.2 No.4 IEC
Technical ratings CSA, UL^②									
Max operating voltage	V	600	600	600	600	600	600	600	480
Max horsepower rating									
Three phase									
200 – 208V	HP	30	60	100	150	200	—	—	—
240V	HP	40	75	125	200	250	—	—	—
480V	HP	75	150	250	450	500	—	—	—
600V	HP	100	200	350	500	500	—	—	—
Single phase									
120V	HP	7.5	—	—	—	—	—	—	—
240V	HP	20	—	—	—	—	—	—	—
Technical ratings IEC^③									
Rated insulation and operational voltage. AC20 and DC20 ^④	V	750	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I _{th}									
AC 20/DC 20 open	A	200	250	400	800	1000	1600	2500	2500
AC 20/DC 20 enclosed	A	160	250	400	800	1000	1600	2300	2300
AC 21A 500V	A	160	250	400	800	1000	1600	2500	2500
690V	A	160	250	400	800	1000	1600	2500	2500
Rated operational power AC23									
400/415V	kW	75	140	220	400	450	560	400	400
690V	kW	75	240	390	800	800	800	—	—
Physical characteristics									
Weight ^⑤	3 pole	Kg	1.1	1.2	2.2	5.2	17	19	57.9
Dimension	3 pole	H mm	127	170	220	250	372	372	636
		W mm	126	170	221	266	334	334	468
		D mm	74	84	105	139	141	141	271
Accessories									
Terminal lug kit		Integral	OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200	DSK8TL	DSK8TM
Terminal shroud		•	•	•	•	•	•	—	—
Auxiliary contact		•	•	•	•	•	•	•	•
Handle CSA/UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Handle type									
Selector		—	—	—	—	—	—	—	—
Pistol		•	•	•	•	•	•	•	•
Conversion kits									
6 pole		•	•	•	•	•	•	—	—
Transfer		•	•	•	•	•	•	—	—
Bypass		•	•	•	•	•	•	—	—
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		—	•	•	•	•	•	•	•

• = Available
— = Not available

CSA approved, UL listed, IEC rated, CE marked

① CSA approved switches are also UL listed.
② For complete technical information please see page 1.28 – 1.35.
③ 1000V, IEC 408.
④ Switch only

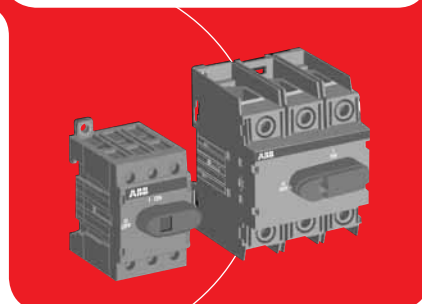
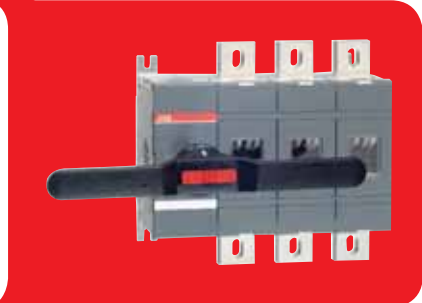
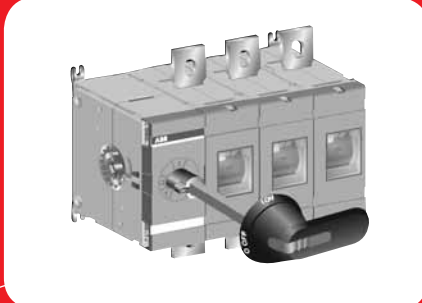
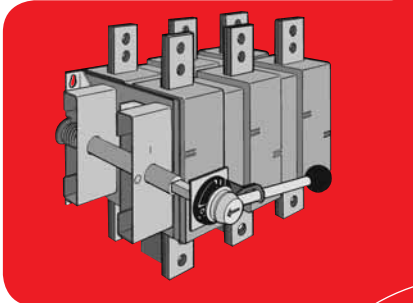
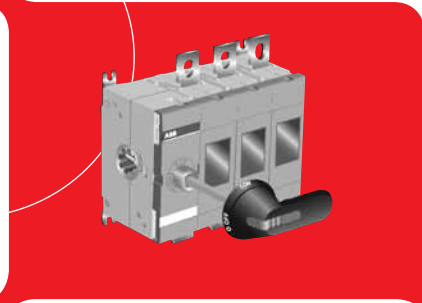
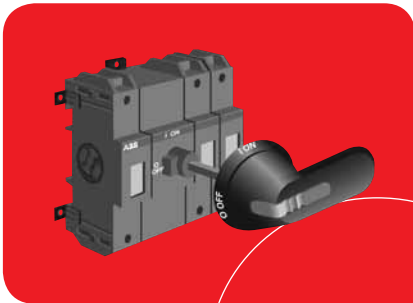


Enhanced range of non-fusible disconnect switches

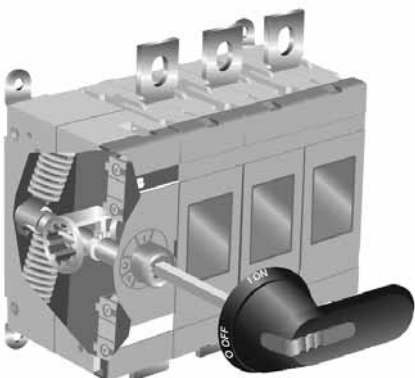
From 16 to 2000 A, 600 V

The non-fusible disconnect switches are suitable for diverse applications, in motor control centers, in switchboards and as main switches in various equipments and machines. From single to 8-poles front operated switches with pistol handle or direct mounted handle. For installation in enclosures, side operated switches and combination switches for change-over, bypass, reversing etc.

- Mountable on DIN rails or base plates and on the door, both by snap-on and screw fitting
- Snap-on mounting of accessories



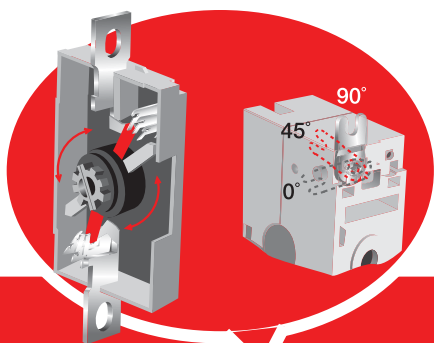
The most compact disconnect (isolation) solution



Optimally designed, the OT disconnect switch offers an advanced and compact solution, providing you with added value.

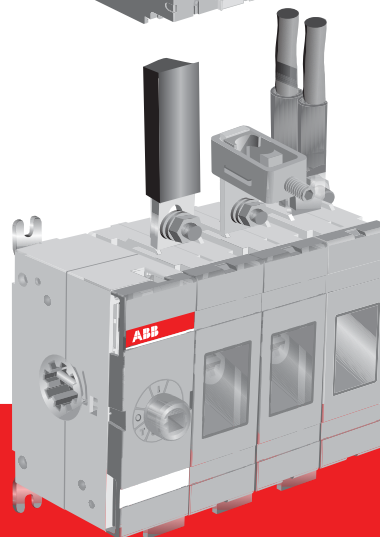
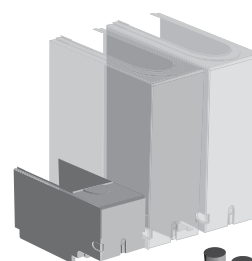
- The new double-sided spring construction in combination with fewer components made an innovative and compact design of the operation mechanism possible.
- The uniquely short current path enabled a small-sized contact construction.

High performance despite the small size



The powerful new construction, with its quick-make and quick-break operation features and two contact points instead of one, adds value to and enhances the performance of the disconnect switches.

- The OT range offers you improved power ratings, the highest on the market. Full I_{th} ratings can be used both in open air and in enclosures, without having to derate or enlarge the box.
- User-friendly and flexible, the OT disconnect switch provides you with full horse power ratings for all the voltages, even up to 600 V.



The OT disconnect switch is easy to use and a snap to install according to your choice: horizontally or vertically - even in the ceiling! The adjustable mounting feet allow both top and side mounting of the switch.

ABB's disconnect switch range meets disconnect and isolation requirements more effectively than ever, maximizing the benefits and optimizing your use of assets.

OT16E... OT100E

- 1 Disconnect switch
- 2 Extended shaft
- 3 Terminal clamp
- 4 Fourth pole, N-and PE-terminals
- 5 Auxiliary contact
- 6 Terminal shroud
- 7 Shaft alignment ring
- 8 Legend plate
- 9 Selector type handle
- 10 Handle knob
- 11 Pistol type handle
- 12 Conversion kit
- 13 Labelling accessories
- 14 Cam attachment for interlocking

OT 16ET...100ET

- 1 Disconnect switch
- 2 Terminal clamp
- 3 Fourth pole, N-and PE-terminals
- 4 Auxiliary contact
- 5 Terminal shroud
- 6 Legend plate
- 7 Selector type handle
- 8 Pistol type handle

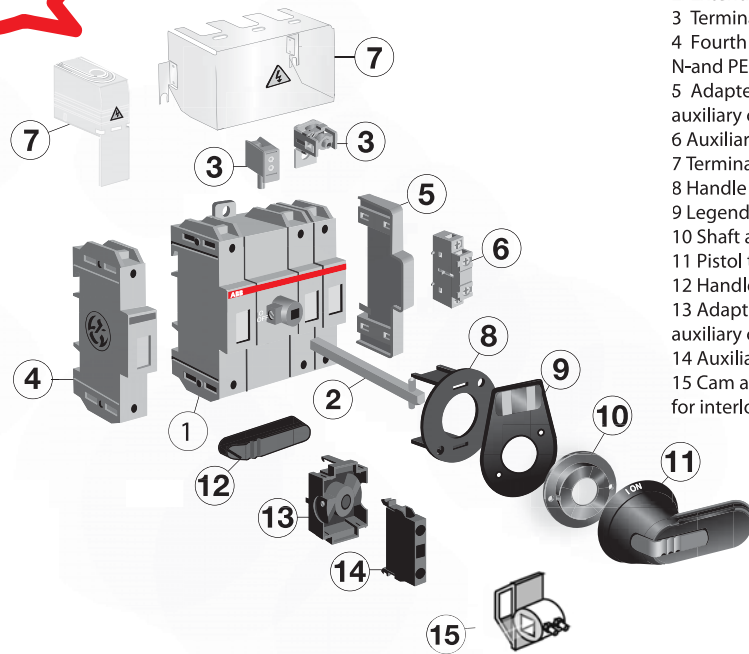
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Accessories

Selection overview

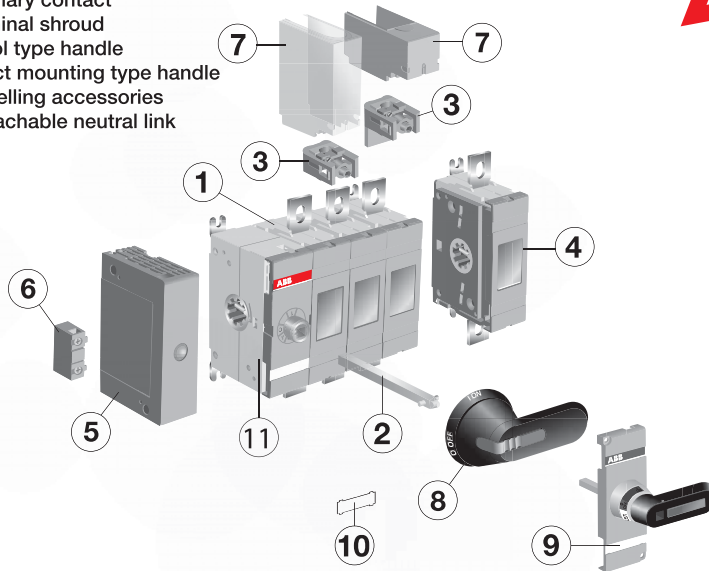


OT160



- 1 Disconnect switch
- 2 Extended shaft
- 3 Terminal clamp
- 4 Fourth pole, N-and PE-terminals
- 5 Adapter for auxiliary contact blocks
- 6 Auxiliary contact
- 7 Terminal shroud
- 8 Handle support
- 9 Legend plate
- 10 Shaft alignment ring
- 11 Pistol type handle
- 12 Handle knob
- 13 Adapter for auxiliary contact blocks
- 14 Auxiliary contact
- 15 Cam attachment for interlocking

- 1 Disconnect switch
- 2 Extended shaft
- 3 Terminal clamp
- 4 Fourth pole
- 5 Module for auxiliary contact
- 6 Auxiliary contact
- 7 Terminal shroud
- 8 Pistol type handle
- 9 Direct mounting type handle
- 10 Labelling accessories
- 11 Detachable neutral link



OT200... 1200

S02069A

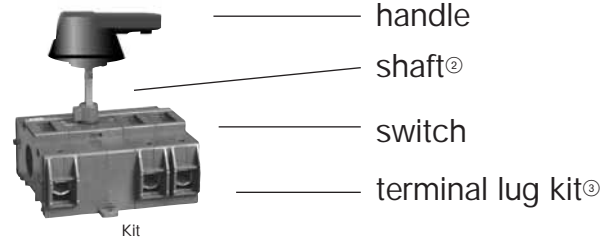


Complete switches

Non-fusible disconnect switches

16A – 2000A, 600V, 3 pole^①

Each kit includes:
 1 three pole^① switch
 1 handle
 1 shaft



Complete switches, base & DIN rail mounted, selector handles

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Complete switches catalog number	List price
		Single phase			Three phase				
		120V	240V	200V – 208V	240V	480V	600V		
16	14	1	2	3	5	10	10	OT16E3S OT25E3S OT32E3S	
25	14	1.5	3	7.5	7.5	15	20		
40	14	2	5	10	10	20	25		
60	14	2	7.5	15	15	30	30	OT45E3S OT63E3S	
80	14	2	10	20	20	40	40		
30	4	2	5	10	10	20	30	OT30E3S OT60E3S OT100E3S	
60	4	3	7.5	20	20	40	40		
100	4	5	15	25	30	50	50		

Complete switches, base & DIN rail mounted, pistol handles[®]

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Complete switches catalog number	List price
		Single phase		Three phase					
		120V	240V	200V – 208V	240V	480V	600V		
16	14	1	2	3	5	10	10	OT16E3P OT25E3P OT32E3P	
25	14	1.5	3	7.5	7.5	15	20		
40	14	2	5	10	10	20	25		
60	14	2	7.5	15	15	30	30	OT45E3P OT63E3P	
80	14	2	10	20	20	40	40		
30	4	2	5	10	10	20	30	OT30E3P OT60E3P OT100E3P	
60	4	3	7.5	20	20	40	40		
100	4	5	15	25	30	50	50		
125	4	7.5	20	30	40	75	100	OT160E3P	
200	4	—	40	60	75	150	200	OT200U03P [®]	
400	4	—	—	100	125	250	350	OT400U03P [®]	
600	4	—	—	150	200	400	500	OT600U03P [®]	
800	4	—	—	200	250	500	500	OT800U03P [®]	
1200	4	—	—	—	—	—	—	OT1200U03P [®]	
1600	4	—	—	—	—	—	—	OETL-NF1600P [®]	
2000	4	—	—	—	—	—	—	OETL-NF2000P [®]	

Complete switches, door mounted

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Complete switches catalog number	List price
		Single phase		Three phase					
		120V	240V	200V – 208V	240V	480V	600V		
16	14	1	2	3	5	10	10	OT16ET3S OT25ET3S OT32ET3S	
25	14	1.5	3	7.5	7.5	15	20		
40	14	2	5	10	10	20	25		
60	14	2	7.5	15	15	30	30	OT45ET3S OT63ET3S	
80	14	2	10	20	20	40	40		
30	4	2	5	10	10	20	30	OT30ET3S OT60ET3S OT100ET3S	
60	4	3	7.5	20	20	40	40		
100	4	5	15	25	30	50	50		
30	4	2	5	10	10	20	30	OT30ET3P OT60ET3P OT100ET3P	
60	4	3	7.5	20	20	40	40		
100	4	5	15	25	30	50	50		
125	4	7.5	20	30	40	75	100	OT160ET3	

① Four poles are available — please refer to accessories page.

② Shaft is not required with door mounted switch, except OT160ET3.

③ Terminal lug kit are sold separately, see accessories page 1.21.

④ Maximum operating voltage 480V.

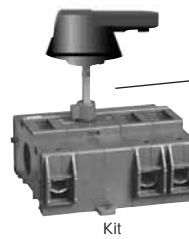
Components list

for non-fusible disconnect switches

16A – 2000A, 600V, 3 pole^①



Each kit includes:
 1 three pole^② switch
 1 handle
 1 shaft



handle^②
 shaft
 switch
 terminal lug kit^③

Components for base & DIN rail mounted switches with selector handles

Complete switches catalog number	Switch		Handle ^②			Shaft			Terminal lugs ^③		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth ^④ (mm)	Length (mm)	Catalog number	Wire size	Wire type	Catalog number
OT16E3S	OT16E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	190 – 205	180	OXS5X180	#18 – #8	Cu	Integral
OT25E3S	OT25E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	190 – 205	180	OXS5X180	#18 – #8	Cu	Integral
OT32E3S	OT32E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	190 – 205	180	OXS5X180	#18 – #8	Cu	Integral
OT45E3S	OT45E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	205 – 220	180	OXS5X180	#14 – #1	Cu	Integral
OT63E3S	OT63E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	205 – 220	180	OXS5X180	#14 – #1	Cu	Integral
OT30E3S	OT30E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	195 – 215	180	OXS5X180	#14 – #4	Cu	Integral
OT60E3S	OT60E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	195 – 215	180	OXS5X180	#14 – #4	Cu	Integral
OT100E3S	OT100E3	1,3R,12	O/I & OFF/ON	Y	OHB2AJ	195 – 215	180	OXS5X180	#8 – 1/0	Cu	Integral

Components for base & DIN rail mounted switches with pistol handles

Complete switches catalog number	Switch		Handle ^②			Shaft			Terminal lugs ^③		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth ^④ (mm)	Length (mm)	Catalog number	Wire size	Wire type	Catalog number
OT16E3P	OT16E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	175 – 190	170	OXF5X170	#18 – #8	Cu	Integral
OT25E3P	OT25E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	175 – 190	170	OXF5X170	#18 – #8	Cu	Integral
OT32E3P	OT32E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	175 – 190	170	OXF5X170	#18 – #8	Cu	Integral
OT45E3P	OT45E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	195 – 205	170	OXF5X170	#14 – #1	Cu	Integral
OT63E3P	OT63E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	195 – 205	170	OXF5X170	#14 – #1	Cu	Integral
OT30E3P	OT30E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	180 – 205	170	OXF5X170	#14 – #4	Cu	Integral
OT60E3P	OT60E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	180 – 205	170	OXF5X170	#14 – #4	Cu	Integral
OT100E3P	OT100E3	1,3R,12	O/I & OFF/ON	Y	OHB65J5	180 – 205	170	OXF5X170	#8 – 1/0	Cu	Integral
OT160E3P	OT160E3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	185 – 215	210	OXF6X210	#8 – 1/0	Cu	Integral
OT200U03P	OT200U03	1,3R,12	O/I & OFF/ON	Y	OHB80J6	220 – 320	210	OXF6X210	#6 – 300 kcmil	Cu/Al	OZXA-200
OT400U03P	OT400U03	1,3R,12	O/I & OFF/ON	Y	OHB145J12	260 – 370	280	OXF12X280	#2 – 600 kcmil	Cu/Al	OZXA-400
OT600U03P	OT600U03	1,3R,12	O/I & OFF/ON	Y	OHB145J12	260 – 370	280	OXF12X280	(2)#2 – 600 kcmil	Cu/Al	OZXA-800
OT800U03P	OT800U03	1,3R,12	O/I & OFF/ON	Y	OHB200J12	295 – 390	280	OXF12X280	(4)#2 – 600 kcmil	Cu/Al	OZXA-1200
OT1200U03P	OT1200U03	1,3R,12	O/I & OFF/ON	Y	OHB200J12	295 – 390	280	OXF12X280	(4)#2 – 600 kcmil	Cu/Al	OZXA-1200
OETL-NF1600P	OETL-NF1600	1,3R,4,4X,12	OFF/ON	—	YASDA-8	340 – 585	325	OXF12X325	(4)#1/0 – 750 kcmil	Cu/Al	DSK8TL
OETL-NF2000P	OETL-NF2000	1,3R,4,4X,12	OFF/ON	—	YASDA-8	340 – 585	325	OXF12X325	(6)#1/0 – 750 kcmil	Cu/Al	DSK8TM

Components for door mounted switches

Complete switches catalog number	Switch		Handle ^②			Shaft			Terminal lugs ^③		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth (mm)	Length (mm)	Catalog number	Wire size	Wire type	Catalog number
OT16ET3S	OT16ET3	1,3R,12	O/I & OFF/ON	—	OHB2PJ	—	No shaft required		#18 – #8	Cu	Integral
OT25ET3S	OT25ET3	1,3R,12	O/I & OFF/ON	—	OHB2PJ				#18 – #8	Cu	Integral
OT32ET3S	OT32ET3	1,3R,12	O/I & OFF/ON	—	OHB2PJ				#18 – #8	Cu	Integral
OT45ET3S	OT45ET3	1,3R,12	O/I & OFF/ON	—	OHB2RJ	—	No shaft required		#14 – #1	Cu	Integral
OT63ET3S	OT63ET3	1,3R,12	O/I & OFF/ON	—	OHB2RJ				#14 – #1	Cu	Integral
OT30ET3S	OT30ET3	1,3R,12	O/I & OFF/ON	—	OHB2RJ	—	No shaft required		#14 – #4	Cu	Integral
OT60ET3S	OT60ET3	1,3R,12	O/I & OFF/ON	—	OHB2RJ				#14 – #4	Cu	Integral
OT100ET3S	OT100ET3	1,3R,12	O/I & OFF/ON	—	OHB2RJ				#8 – #1/0	Cu	Integral
OT30ET3P	OT30ET3	1,3R,12	O/I & OFF/ON	—	OHB65J5	—	Include OHZX6 adapter		#14 – #4	Cu	Integral
OT60ET3P	OT60ET3	1,3R,12	O/I & OFF/ON	—	OHB65J5				#14 – #4	Cu	Integral
OT100ET3P	OT100ET3	1,3R,12	O/I & OFF/ON	—	OHB65J5				#8 – 1/0	Cu	Integral
OT160ET3	OT160ET3-2	1,3R,12	O/I & OFF/ON	—	OHB65J6	—	130	OXF6X130	#8 – 1/0	Cu	Integral

①Other pole configurations available; please see individual components.

②All handles are black and accept three padlocks. For other handles please see individual components.

③Terminal lug kit for OT/OETL switches are sold separately, see accessories page 1.21.

④Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.



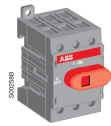
16A – 80A

Manual motor controllers

Base & DIN rail mounted, door mounted

For a complete assembly, please select one of each:

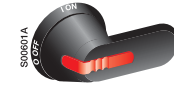
- 1 switch
- 1 handle
- 1 shaft^①



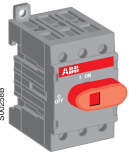
OT32E3



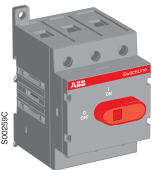
+ OXP5X170



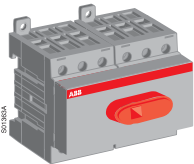
+ OHB65J5



OT16-OT32E3



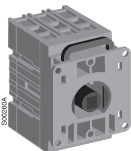
OT45-63E3



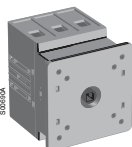
OT16E6



OT45E3C



OT16-OT32ET3



OT45-OT63ET3

Base and DIN rail mounted, 16 – 80 Amp switches, 600V, 3 pole^②

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase		Three phase				Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
16	14	1	2	3	5	10	10	#18 – #8	Cu	5	OT16E3 OT25E3 OT32E3	
25	14	1.5	3	7.5	7.5	15	20					
40	14	2	5	10	10	20	25					
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	5	OT45E3 OT63E3	
80	14	2	10	20	20	40	40					

16 – 80 Amp switches- 600V, 6 pole

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase		Three phase				Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
16	14	1	2	3	5	10	10	#18 – #8	Cu	5	OT16E6 OT25E6 OT32E6	
25	14	1.5	3	7.5	7.5	15	20					
40	14	2	5	10	10	20	25					
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	6	OT45E6 OT63E6	
80	14	2	10	20	20	40	40					

16 – 80 Amp switches- 600V, 3 pole change-over switches

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower ratings						Terminal lugs		Shaft (MM)	Catalog number	List price
		Single phase		Three phase				Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
16	14	1	2	3	5	10	10	#18 – #8	Cu	5	OT16E3C OT25E3C OT32E3C	
25	14	1.5	3	7.5	7.5	15	20					
40	14	2	5	10	10	20	25					
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	5	OT45E3C OT63E3C	
80	14	2	10	20	20	40	40					

Door mounted, 16 – 80 Amp switches, 600V, 3 pole^{①②}

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size	Catalog number	List price
		Single phase		Three phase				Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
16	14	1	2	3	5	10	10	#18 – #8	Cu	-	OT16ET3 OT25ET3 OT32ET3	
25	14	1.5	3	7.5	7.5	15	20					
40	14	2	5	10	10	20	25					
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	-	OT45ET3 OT63ET3	
80	14	2	10	20	20	40	40					

① Door mounted switches do not require shafts
 ② A snap on fourth pole may be added — please reference accessories pg 1.14.

30A – 125A

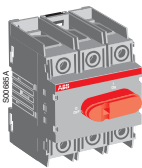
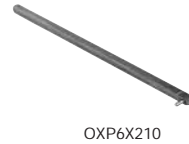
Non-fusible disconnect switches

Base & DIN rail mounted, door mounted

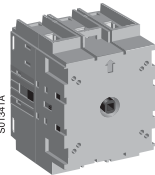


For a complete assembly,
please select one of each:

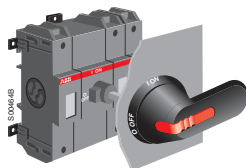
- 1 switch
- 1 handle
- 1 shaft^①



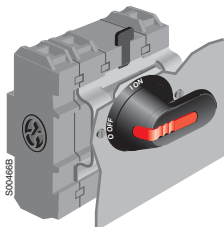
OT100E3



OT100E3



OT160E3



OT160E3

Base and DIN rail mounted, 30 – 100 Amp switches, 600V, 3 pole^②

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase			Three phase			Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
30	4	2	5	10	10	20	30	#14 – #4	Cu	5	OT30E3 OT60E3 OT100E3	
60	4	3	7.5	20	20	40	40	#14 – #4				
100	4	5	15	25	30	50	50	#8 – 1/0				

30 – 100 Amp switches- 600V, 6 pole

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase			Three phase			Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
30	4	2	5	10	10	20	30	#14 – #4	Cu	6	OT30E6 OT60E6 OT100E6	
60	4	3	7.5	20	20	40	40	#14 – #4				
100	4	5	15	25	30	50	50	#8 – 1/0				

30 – 100 Amp switches- 600V, 3 pole change-over switches

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower ratings						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase			Three phase			Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
30	4	2	5	10	10	20	30	#14 – #4	Cu	5	OT30E3C OT60E3C OT100E3C	
60	4	3	7.5	20	20	40	40	#14 – #4				
100	4	5	15	25	30	50	50	#8 – 1/0				

Door mounted, 30 – 100 Amp switches, 600V, 3 pole^{①②}

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase			Three phase			Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
30	4	2	5	10	10	20	30	#14 – #4	Cu	-	OT30ET3 OT60ET3 OT100ET3	
60	4	3	7.5	20	20	40	40	#14 – #4				
100	4	5	15	25	30	50	50	#8 – 1/0				

Base & DIN rail mounted, 125 Amp switches, 600V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase			Three phase			Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
2 pole 125	4	—	—	—	—	—	—	#8 – 1/0	Cu	6	OT160E2	
3 pole 125	4	7.5	20	30	40	75	100	#8 – 1/0	Cu	6	OT160E3	

125 Amp Door mounted switch, 600V, 3 pole

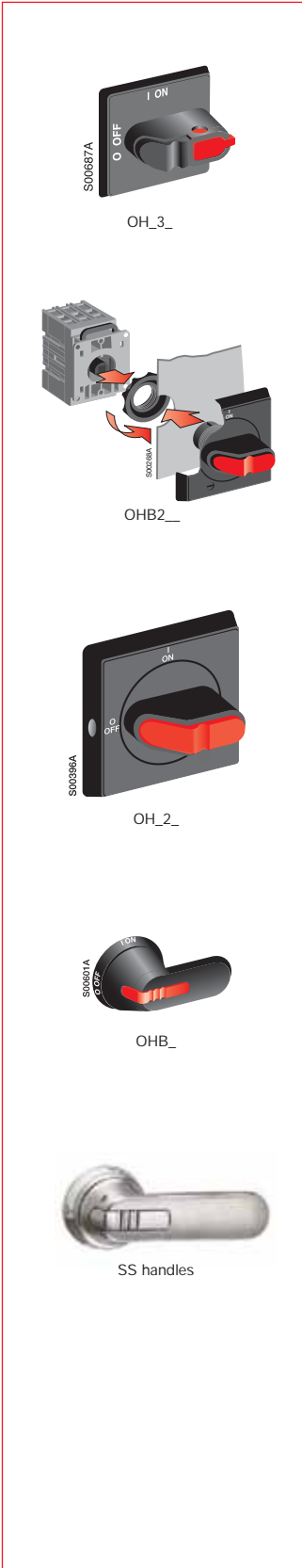
CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Shaft Size (MM)	Catalog number	List price
		Single phase			Three phase			Wire size	Wire type			
		120V	240V	200V	240V	480V	600V					
125	4	7.5	20	30	40	75	100	#8 – 1/0	Cu	6	OT160ET3-2	

① Door mounted switches do not require shafts, except OT160ET3-2
② A snap on fourth pole may be added — please reference accessories pg 1.14.



Handles

for 16A – 125A non-fusible disconnect switches
Base & DIN rail mounted



Selector handles — for use with shafts (□ 5 x 5 mm)

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Dim. (mm ²)	Catalog number	List price
All marked both O/I & Off/On								
1	IP54	Blk	O/I & OFF/ON	—	Yes	48	OHB3AH1 ^①	
1	IP54	Red/Yel	O/I & OFF/ON	—	Yes	48	OHY3AH1 ^①	
1, 3R,12	IP65	Blk	O/I & OFF/ON	Yes	Yes	65	OHB2AJ	
1, 3R,12	IP65	Grey	O/I & OFF/ON	Yes	Yes	65	OHG2AJ	
1, 3R,12	IP65	Red/Yel	O/I & OFF/ON	Yes	Yes	65	OHY2AJ	
1, 3R,12	IP65	Blk	I / O / II	Yes	Yes	65	OHB2AJE011	
1, 3R,12	IP65	Red/Yel	I / O / II	Yes	Yes	65	OHY2AJE011	
1, 3R,12	IP65	SS HASP	O/I & OFF/ON	Yes	Yes	65	OHB2AJEH	

Selector handles, Door mounted switches

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Dim. (mm ²)	Catalog number	List price
All marked both O/I & Off/On								
Snap-on mounting — for use on OT16ET3 – OT32ET3								
1	IP54	Blk	O/I & OFF/ON	—	Yes	48	OHB3PH	
1	IP54	Red/Yel	O/I & OFF/ON	—	Yes	48	OHY3PH	
1,3R,12	IP65	Blk	O/I & OFF/ON	—	Yes	65	OHB2PJ	
1,3R,12	IP65	Red/Yel	O/I & OFF/ON	—	Yes	65	OHY2PJ	
1, 3R,12	IP65	SS HASP	O/I & OFF/ON	—	Yes	65	OHB2PJEH	

Screw mounting — for use on OT16ET3 – OT00ET3

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Dim. (mm ²)	Catalog number	List price
1	IP54	Blk	O/I & OFF/ON	—	Yes	48	OHB3RH	
1	IP54	Red/Yel	O/I & OFF/ON	—	Yes	48	OHY3RH	
1,3R,12	IP65	Blk	O/I & OFF/ON	—	Yes	65	OHB2RJ	
1,3R,12	IP65	Red/Yel	O/I & OFF/ON	—	Yes	65	OHY2RJ	

Pistol handles — for use with shafts (□ 5 x 5 mm) ^②

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Shaft size (mm ²)	Catalog number	List price
1,3R,12	IP65	Blk Red/Yel Blk Grey Red/Yel	O/I & OFF/ON	Yes	Yes	5	OHB45J5 OHY45J5 OHB65J5 OHG65J5 OHY65J5	
1,3R,4,4X,12	IP66	Blk Red/Yel	O/I & OFF/ON	Yes	Yes	5	OHB65L5 OHY65L5	
1, 3R, 12	IP65	Black Red/Yel	I / O / II I / O / II	Yes	Yes	5	OHB65J5E011 OHY65J5E011	
1, 3R, 4, 4X,12	IP66	Black Red/Yel	I / O / II I / O / II	Yes	Yes	5	OHB65L5E011 OHY65L5E011	
1, 3R, 4, 4X,12	IP65	SS	O/I & OFF/ON	Yes	Yes	5	OHM65L5	

Pistol handles — for use with shafts (□ 6 x 6 mm) ^②

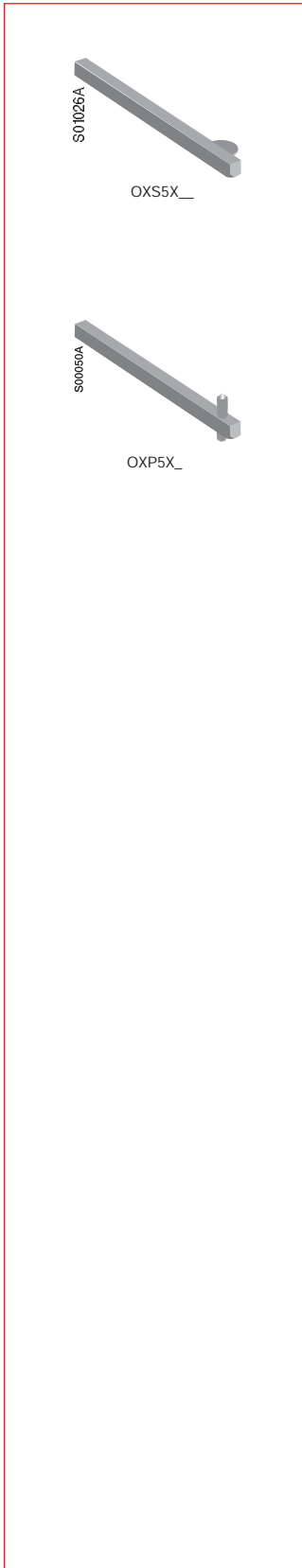
NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Shaft size (mm ²)	Catalog number	List price
1, 3R, 12	IP65	Black Grey Red/Yel Black Grey Red/Yel	O/I & OFF/ON	Yes	Yes	6	OHB65J6 OHG65J6 OHY65J6 OHB80J6 OHG80J6 OHY80J6	
1, 3R, 4, 4X,12	IP66	Black Red/Yel	O/I & OFF/ON	Yes	Yes	6	OHB80L6 OHY80L6	
1, 3R, 4, 4X,12	IP65	SS	O/I & OFF/ON	Yes	Yes	6	OHM65L6	

^① Not suitable for use with OT30E3, OT60E3, OT100E3

^② Plastic pistol grip handle with stainless steel hasp, add suffix EH. ex.: OHB65J5EH

Shafts

for 16A – 125A non-fusible disconnect switches
Base & DIN rail mounted



Shafts — for use with OH selector handles (□ 5 x 5 mm)



Mounting depth[Ⓢ] in mm

Shaft length (mm)	OT16E3 OT25E3 OT32E3		OT45E3 OT63E3		OT30E3 OT60E3 OT100E3	Catalog number	List price
	OH_3_	OH_2_	OH_3	OH_2_	OH_2_		
85	105 – 125	90 – 110	125 – 140	110 – 125	100 – 125	OXS5X85	
130	150 – 170	135 – 155	170 – 185	155 – 170	145 – 170	OXS5X130	
180	200 – 220	185 – 205	220 – 235	205 – 220	195 – 220	OXS5X180	
250	270 – 290	255 – 275	290 – 305	275 – 290	265 – 290	OXS5X250	
330	350 – 370	335 – 355	370 – 385	355 – 370	345 – 370	OXS5X330	
455	475 – 495	460 – 480	495 – 510	480 – 495	470 – 495	OXS5X455	

Shafts — for use with pistol handles (□ 5 x 5 mm)



Mounting depth[Ⓢ] in mm

Shaft length (mm)	OT16E3 OT25E3 OT32E3		OT45E3 OT63E3	OT30E3 OT60E3 OT100E3	Catalog number	List price
	150	155 – 170	175 – 185	160 – 185		
170	175 – 190	195 – 205	180 – 205	OXP5X170		
265	270 – 285	290 – 300	275 – 300	OXP5X265		
400	405 – 420	425 – 435	410 – 435	OXP5X400		
500	505 – 520	525 – 535	510 – 535	OXP5X500		
700	705 – 720	725 – 735	710 – 735	OXP5X700		

Shafts — for use with pistol handles (□ 6 x 6 mm)



Mounting depth[Ⓢ] in mm

Shaft length (mm)	OT160E	OT30E6 OT60E6 OT100E6	Catalog number	List price
	130	105 – 135		
150	125 – 155	185 – 195	OXP6X150	
210	185 – 215	245 – 255	OXP6X210	
290	265 – 295	325 – 335	OXP6X290	
360	335 – 365	395 – 405	OXP6X360	
430	405 – 435	465 – 475	OXP6X430	
700	...	675 – 745	OXP6X700	

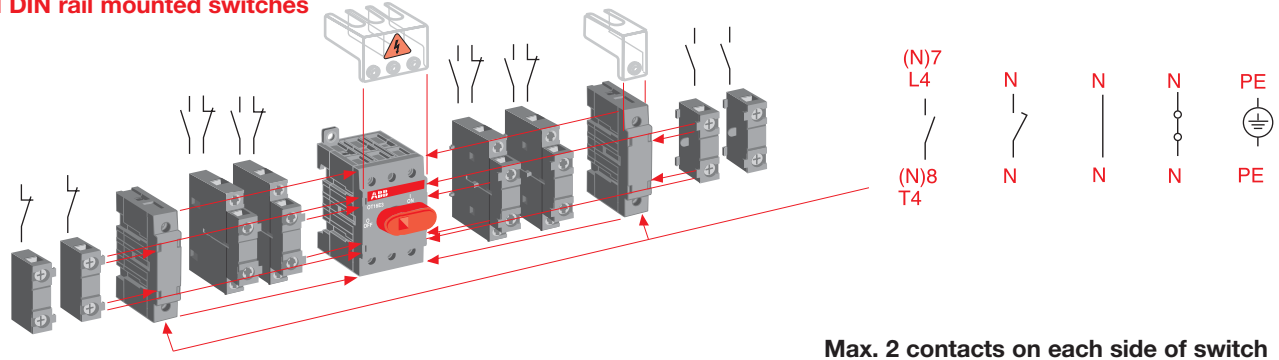
Ⓢ Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.



Accessories

for 16A – 160A non-fusible disconnect switches
Base & DIN rail mounted, door mounted

Base and DIN rail mounted switches



Auxiliary contacts – snap-on mounting

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. mounts on right side (2 max)	OT16E(T)3 - OT100E(T)3	10	600	OA1G10	
1 N.O. mounts on left side (2 max)	OT16E3C - OT100E3C	10	600	OA7G10	
1 N.C. mounts on left side (2 max)	OT16E(T)3 - OT100E(T)3	10	600	OA1G01	
1 N.C. mounts on right side (2 max)	OT16E3C - OT100E3C	10	600	OA3G01	
1 N.O. + 1 N.C. mounts on left or right hand side of switch (2 max. per side)	OT16E3 - OT100E3	10	600	OA2G11	

Auxiliary contacts top mounted^①

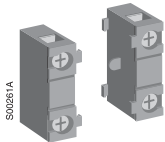
- OEZNP1 mounting base required to mount auxiliary contacts (order separately)

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O.	OT160E3	10	600	OBEA10	
1 N.C.		10	600	OBEA01	
1 N.O. gold plated		10	600	OBEA-10AU	
1 N.C. gold plated		10	600	OBEA-01AU	
Mounting base on top	OBEA_			OEZNP1	

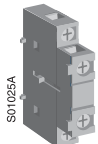
Auxiliary contacts side mounted^①

- Accepts four contacts maximum

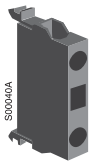
Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. + 1 N.C.	OT160E3	10	600	OA2G11	
Mounting base required for OA2G11				OAZX1	



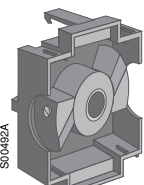
OA1G_



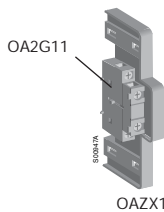
OA2G11



OBEA_



OEZNP1

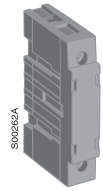


OAZX1

^① When using OBEA_ auxiliary contacts, mounting base OEZNP1 is required, and when using OA2G11, mounting base OAZX1 is required.

Accessories

for 16A – 160A non-fusible disconnect switches
Base & DIN rail mounted, door mounted



OTP_32_



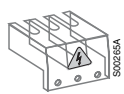
OTP_63_



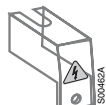
OTP_125_



OTP_160EP



OTS_T3



OTS_T1

Power poles — Only one power pole per switch, mounts on left or right side of switch

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
 Fourth pole	OT16E3 – OT32E3	40	600	OTPS32EP OTPS63EP OTPS60EP OTPS125EP OTPS160EP	
	OT45E3 – OT63E3	80	600		
	OT30E3, OT60E3	60	600		
	OT100E3	100	600		
	OT160E3, ET3	125	600		
 Late-break/early-make	OT16E3 – OT32E3	40	600	OTPL32EP OTPL63EP OTPL125EP	
	OT45E3 – OT63E3	80	600		
	OT30E3, OT60E3, OT100E3	100	600		
 Fourth pole	OT16ET3 – OT32ET3	40	600	OTPS32ED OTPS63ED OTPS125ED	
	OT45ET3 – OT63ET3	80	600		
	OT30ET3, OT60ET3, OT100ET3	100	600		
 Late-break/early-make	OT16ET3 – OT32ET3	40	600	OTPL32ED OTPL63ED OTPL125ED	
	OT45ET3 – OT63ET3	80	600		
	OT30ET3, OT60ET3, OT100ET3	100	600		

Terminal poles — Switch accepts one terminal pole per side, mounts on left or right side of switch

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
 Solid neutral Base & DIN rail mounted	OT16E3 – OT32E3	40	600	OTPN32EP OTPN63EP OTPN125EP OTPN160EP	
	OT45E3 – OT63E3	80	600		
	OT30E3, OT60E3, OT100E3	100	600		
	OT160E3, ET3	125	600		
 Detachable neutral Base & DIN rail mounted	OT16 E3 – OT32E3	40	600	OTPD32EP OTPD63EP OTPD60EP OTPD125EP	
	OT45E3 – OT63E3	80	600		
	OT30E3, OT60E3	60	600		
	OT100E3	100	600		
 Ground terminal Base & DIN rail mounted	OT16E3 – OT32E3	30	600	OTPE32EP OTPE63EP OTPE125EP OTPE160EP	
	OT45E3 – OT63E3	60	600		
	OT30E3, OT60E3, OT100E3	100	600		
	OT160E3, ET3	125	600		
 Solid neutral Door mounted	OT16ET3 – OT32ET3	30	600	OTPN32ED OTPN63ED OTPN125ED	
	OT45ET3 – OT63ET3	60	600		
	OT30ET3, OT60ET3, OT100ET3	100	600		
 Detachable neutral Door mounted	OT45ET3 – OT63ET3	60	600	OTPD63ED	
 Ground terminal Door mounted	OT16ET3 – OT32ET3	30	600	OTPE32ED OTPE63ED OTPE125ED	
	OT45ET3 – OT63ET3	60	600		
	OT30ET3, OT60ET3, OT100ET3	100	600		

Terminal shrouds — snap on mounting for line or load side

Description	For use on:	Catalog number	List price
3 pole includes one shroud for line or load side	OT16E3 – OT32E3, -ET3 OT45E3 – OT63E3, -ET3 OT30E3, OT60E3, OT100E3 OT160E3	OTS32T3 OTS63T3 OTS125T3 OTS160T3	
For 1 to 4-pole switches, shroud for single pole and for fourth	OTP_32E- OTP_63E- OTP_60E, OTP_125E OT160E	OTS32T1 OTS63T1 OTS125T1 OTS160T1	

* All disconnects are IP20 touch safe as standard. Terminal shrouds provide an additional level of protection.



Accessories

for 16A – 160A non-fusible disconnect switches
Base & DIN rail mounted



CXBY68419/1



OHB11



OHB12



OTZS1



OHY7



CXBY68140



SO0327A

OHZX5

Replacement Knob – mounts directly to switch; no shaft necessary

UL/NEMA type	Color	For use on :	Length (MM)	Padlockable	Catalog number	List price
1	Red	OT16, OT25, OT32	25	–	CXBY68135	
1	Red	OT30, OT45, - OT100	35	–	CXBY68306	
1	Red	OT30, OT45, - OT100	40	Yes	CXBY68419/1	
1	Black	OT125	–	Yes	OHB11	
1	Black	OT16-OT32	–	Yes	OHB12	
1	Black	OT45...100	–	Yes	OHB2/1	
Metal collar		OT16- OT100	–	–	OTZS1	
Metal collar		OT160	–	–	OTZS2	
Red knob for locking shaft in place **re-use original set screw **		OT160	–	–	CXBY68100	
Set screw Ⓞ		OT16- OT100	–	–	FLSWM5X8AY	

Modular adapter cover – for OT16, OT25, OT32

Item	For use on :	Length (Inches)	Padlockable	Catalog number	List price
Adapter cover grey	OT16, OT25, OT32	–	Yes	OHB7	
Adapter cover yellow	OT16, OT25, OT32	–	Yes	OHY7	

A padlock can be used with the adapter cover.

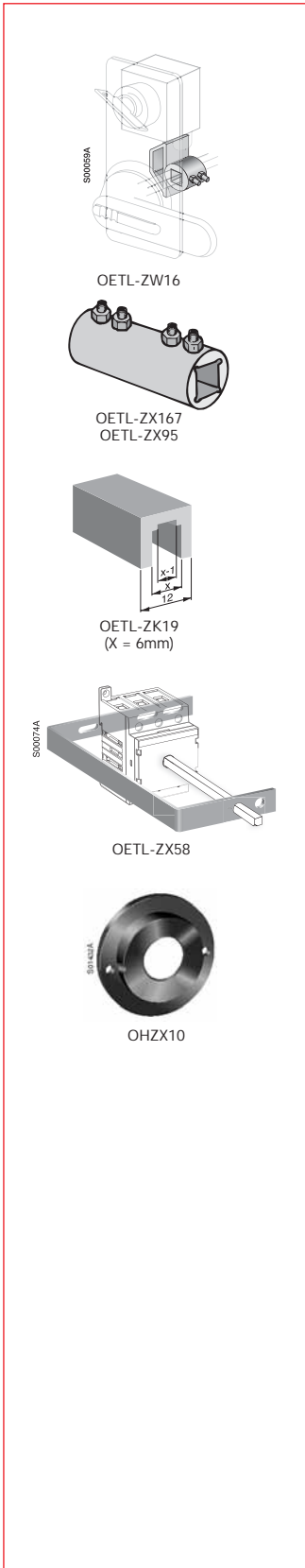
Locking clip – (replacement part)

Description	For use on :	Catalog number	List price
Door mounted switch handle locking clip	OT16, OT25, OT32	CXBY68140	

Handle support – (for direct mounting on the switch mechanism for OH_65, 80 handles)

Description	For use on:	Catalog number	List Price
Handle Support	OT160E3	OHZX5	

Accessories for 16A - 100A Non-fusible disconnect switches



Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key interlock. The interlock is not included.	5, 6 & 8mm shafts	OETL-ZW16	

Shaft extension couplers

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	for 6mm shafts for 12mm shafts	OESA-ZX167 OETL-ZX95	

Shaft adapter

Description	For use on:	Catalog number	List price
Adapts one end of a 5 or 6mm shaft to 12mm Use with shaft extension coupler	5 & 6mm shafts	OETL-ZK19	

Stainless steel hasp

Description	For use on:	Catalog number	List price
Replacement stainless steel hasp	Selector handle Pistol handle	OHZX12 OHZX13	

Shaft support

Description	For use on:	Catalog number	List price
Shaft support	OT16E3 – OT100E3	OETL-ZX58	

Pistol handle adapter, door mounted switches

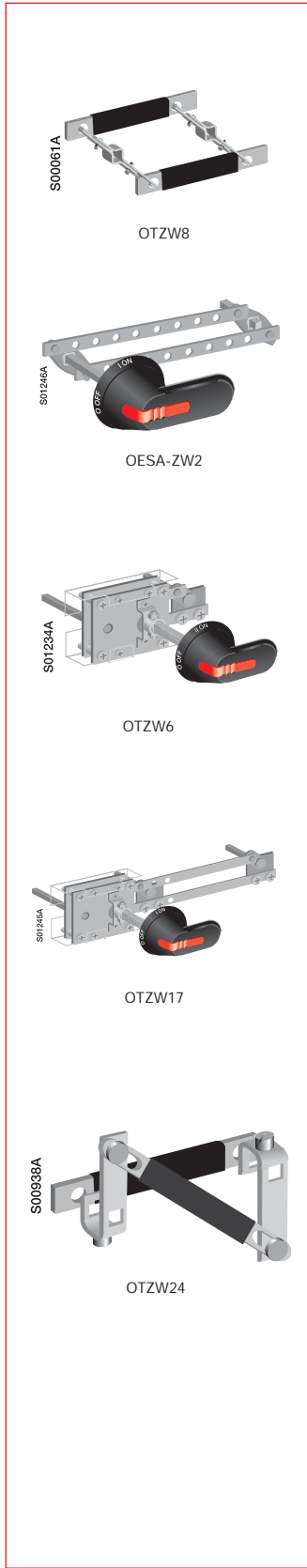
Description	For use on:	Catalog number	List price
Adapter piece for pistol handle	OT30ET3, OT60ET3, OT100ET3	OHZX6	

Shafts alignment ring

Description	For use on:	Catalog number	List price
Pistol Handles	OH_45, 65, 80, 125, 145, 175J, L	OHZX10	
Selector Handles	OH_2, 3, AH, AJ	OHZX11	



Accessories for 16A - 200A Non-fusible disconnect switches



Conversion mechanisms

- For use with Base and DIN rail mounted switches only
- Switches are not included

Description	For use on:	Catalog number	List price
6 or 8 pole	OT16E3 - OT100E3	OTZW8	
Transfer		OTZW6	
Bypass		OTZW17	
Mechanical Interlock		OTZW24	
6 or 8 pole	OT160E3 - OT200E3	OESA-ZW2	
Transfer		OTZW25	
By pass		OTZW26	
Mechanical Interlock		OTZW10	

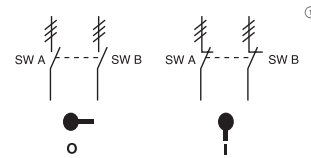
6 or 8 pole — OTZW8, OESA-ZW2

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle
- Two 5mm shafts

Note: OESA-ZW2 include shaft & handle (OHB145J12)



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

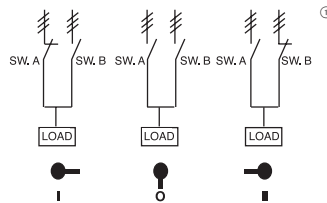
X = Closed
O = Open

Transfer — OTZW6, OTZW25

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position.

A 3 position handle OHB80J6E011 is included for OTZW6 and OHB95J12E011 for OTZW25. Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

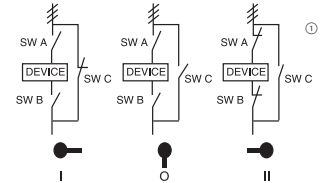
X = Closed
O = Open

Bypass — OTZW17, OTZW26

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

A 3 position handle OHB80J6E011 is included for OTZW17 and OHB95J12E011 for OTZW26. Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

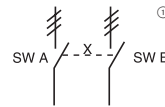
X = Closed
O = Open

Mechanical interlock — OTZW24, OTZW10

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time. Shaft distance = 100 mm, for OTZW24 and 190 mm for OTZW10

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two handles
- Two shafts



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

① = Three poles

200A – 2000A Non-fusible disconnect switches



For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OT200U03



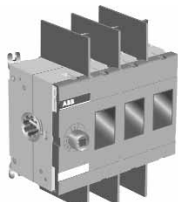
OXP6X210



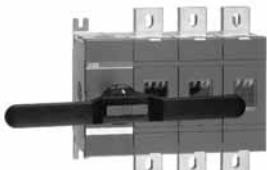
OHB80J6



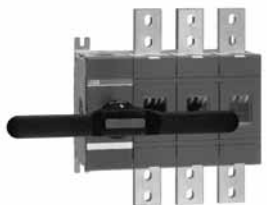
OZXA-200



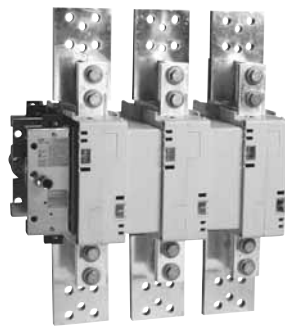
OT200U03



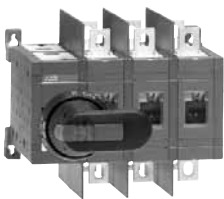
OT800U03P



OT1200U03P



OETL-NF1600
OETL-NF2000



OT200U03C

200 Amp switches, 600V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
2 pole								
200	4	30/1Ph	40/1Ph	40/1Ph	—	—	OT200U02	
3 pole								
200	4	60	60	75	150	200	OT200U03	
200	4	60	60	75	150	200	OT200U12	
200	4	60	60	75	150	200	OT200U30	
4 pole								
200	4	60	60	75	150	200	OT200U04	

400 – 800 Amp switches, 600V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
2 pole								
400	4	—	—	—	—	—	OT400U02	
600	4	—	—	—	—	—	OT600U02	
800	4	—	—	—	—	—	OT800U02	
3 pole								
400	4	100	100	125	250	350	OT400U03	
400	4	100	100	125	250	350	OT400U12	
400	4	100	100	125	250	350	OT400U30	
600	4	150	150	200	400	500	OT600U03	
600	4	150	150	200	400	500	OT600U12	
600	4	150	150	200	400	500	OT600U30	
800	4	200	200	250	500	500	OT800U03	
800	4	200	200	250	500	500	OT800U12	
800	4	200	200	250	500	500	OT800U30	
4 pole								
400	4	100	100	125	250	350	OT400U04	
600	4	150	150	200	400	500	OT600U04	
800	4	200	200	250	500	500	OT800U04	

1200 – 2000 Amp switches, 600V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		Three phase						
2 pole								
1200	4	The Canadian Electric Code does not specify HP ratings for switches this large. Please select a switch based on 115% of application FLA. For example: a motor with an FLA of 800A would require a 1200A switch: 800A x 115% = 920A, the closest higher rated switch is 1200A.					OT1200U02	
1600	4						OETL-NF1600-2	
2000	4						OETL-NF2000-2 [Ⓞ]	
3 pole								
1200	4	The Canadian Electric Code does not specify HP ratings for switches this large. Please select a switch based on 115% of application FLA. For example: a motor with an FLA of 800A would require a 1200A switch: 800A x 115% = 920A, the closest higher rated switch is 1200A.					OT1200U03	
1200	4						OT1200U12	
1600	4						OETL-NF1600	
2000	4						OETL-NF2000 [Ⓞ]	
4 pole								
—	—	The Canadian Electric Code does not specify HP ratings for switches this large. Please select a switch based on 115% of application FLA. For example: a motor with an FLA of 800A would require a 1200A switch: 800A x 115% = 920A, the closest higher rated switch is 1200A.					OT1200U04	
—	—						OETL-NF1600-4	
—	—						OETL-NF2000-4 [Ⓞ]	

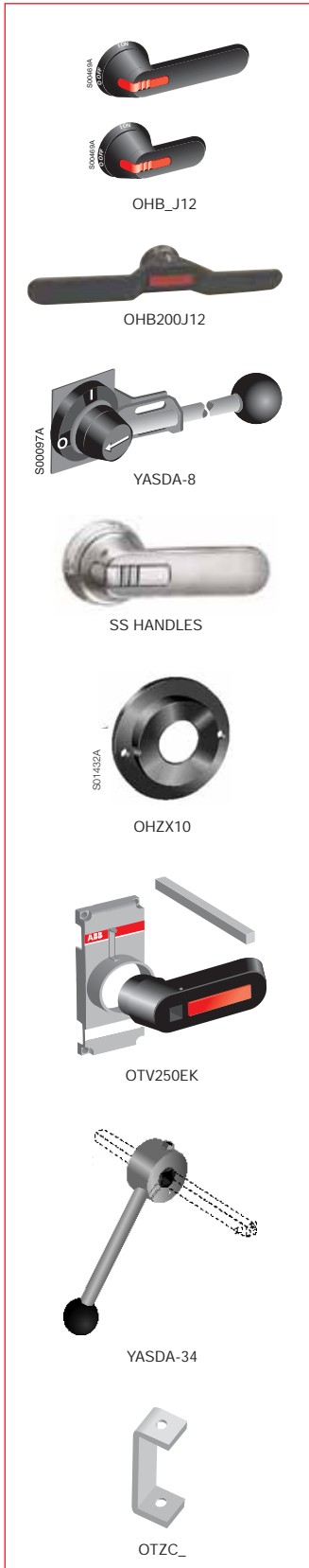
200 – 600 Amp change-over switches

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
3 pole								
200	4	60	60	75	150	200	OT200U03C	
400	4	100	100	125	250	350	OT400U03C	
600	4	150	150	200	400	500	OT600U03C	
4 pole								
200	4	60	60	75	150	200	OT200U04C	
400	4	100	100	125	250	360	OT400U04C	
600	4	150	150	200	400	500	OT600U04C	

[Ⓞ] Maximum operating voltage: 480V



200A – 2000A Non-fusible disconnect switches



Pistol handles — for use with (□ 6 x 6 mm) OT200 ②

NEMA type	IEC type	Color	Length mm	Marking	Defeatable	Padlockable	Catalog number	List price
1, 3R, 12	IP65	Blk	80	O/I & Off/On	Yes	Yes	OHB80J6	
1, 3R, 12	IP65	Grey	80	O/I & Off/On	Yes	Yes	OHG80J6	
1, 3R, 12	IP65	R/Y	80	O/I & Off/On	Yes	Yes	OHY80J6	
1, 3R, 4, 4X, 12	IP66	Blk	80	O/I & Off/On	Yes	Yes	OHB80L6	
1, 3R, 4, 4X, 12	IP66	R/Y	80	O/I & Off/On	Yes	Yes	OHY80L6	
1, 3R, 4, 4X, 12	IP66	SS	65	O/I & Off/On	Yes	Yes	OHM65L6	

Shafts — for use with pistol handles (□ 6 x 6 mm)

Shaft length mm	Mounting depth ^① in mm	Catalog number	List price
150	129 – 194	OSP6X150	
210	189 – 254	OSP6X210	
290	269 – 334	OSP6X290	
360	339 – 404	OSP6X360	
430	409 – 474	OSP6X430	
700	675 – 705	OSP6X700	

Pistol handles — for use with shafts (□ 12 x 12 mm) OT400...OETL-NF2000 ②

NEMA type	IEC type	Color	Length in mm	Marking	Defeatable	Padlockable	Catalog number	List price
1,3R,12	IP65	Blk	145	O/I & Off/On	Yes	Yes	OHB145J12	
1,3R,12	IP65	Grey	145	O/I & Off/On	Yes	Yes	OHG145J12	
1,3R,12	IP65	R/Y	145	O/I & Off/On	Yes	Yes	OHY145J12	
1,3R,12	IP65	Blk	175	O/I & Off/On	Yes	Yes	OHB175J12	
1,3R,12	IP65	R/Y	175	O/I & Off/On	Yes	Yes	OHY175J12	
1,3R,12	IP65	Blk	2 x 200	O/I & Off/On	Yes	Yes	OHB200J12	
1,3R,4,4X,12	IP66	Blk	145	O/I & Off/On	Yes	Yes	OHB145L12	
1,3R,4,4X,12	IP66	R/Y	145	O/I & Off/On	Yes	Yes	OHY145L12	
1,3R,4,4X,12	IP66	Blk	175	O/I & Off/On	Yes	Yes	OHB175L12	
1,3R,4,4X,12	IP66	R/Y	175	O/I & Off/On	Yes	Yes	OHY175L12	
1,3R,4,4X,12	IP65	Metal	220	Off/On	—	Yes	YASDA-8	
1,3R,4,4X,12	IP66	SS	125	O/I & Off/On	Yes	Yes	OHM125L12	
1,3R,4,4X,12	IP66	SS	175	O/I & Off/On	Yes	Yes	OHM175L12	
1,3R,4,4X,12	IP66	SS	275	O/I & Off/On	Yes	Yes	OHM275L12	

Shafts — for use with pistol handles (□ 12 x 12 mm)

Shaft length mm	OT400, 600	OT800U03 - OT1200U03	OETL-NF1600,2000	Catalog number	List price
For use on:	OT400, 600	OT800U03 - OT1200U03	OETL-NF1600,2000		
280	260-340	295-390	—	OSP12X280	
325	305-385	350-435	350-435	OSP12X325	
395	375-455	410-505	410-505	OSP12X395	
465	445-525	480-575	480-575	OSP12X465	
535	515-595	550-645	550-645	OSP12X535	
625	605-685	640-735	640-735	OSP12X625	

Shafts alignment ring — for use on :

Description	For use on:	Catalog number	List price
Pistol Handles	OH_45...275J5...12	OHZX10	

Direct Mounted Handle

Description	For use on:	Catalog number	List price
Padlockable with 3 padlocks in O-position	OT200	OTV250EK	
Includes shaft and mechanism	OT400	OTV400EK	
	OT600	OTV800EK	
Mounts on shaft	OETL-NF1600, 2000	YASDA-34	

Bridging bars

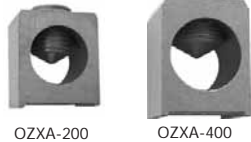
The bridging bars provide a connection link either on the incoming or outgoing side of the switch.

Suitable for switches	Number of poles	Catalog number	List price
OT200U_C	3	OTZC13	
	4	OTZC14	
OT400U_C	3	OTZC23	
	4	OTZC24	
OT600U_C	3	OTZC33	
	4	OTZC34	
OT800U_C	3	OTZC43	
	4	OTZC44	

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

② Plastic pistol grip handle with stainless steel hasp, add suffix EH

Accessories for 200 – 2000A Non-fusible disconnect switches



OZXA-200

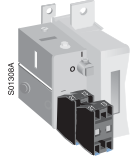
OZXA-400



OZXA-800



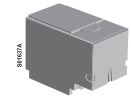
OEA28



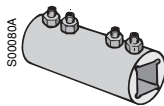
OZXK-
501500A



OTS_L_
501500A



OTS_S_
501500A



OETL-ZX95
S00080A

Terminal lug kits

For use on:	Wire size	Wire type	Terminal lugs per kit	Kit catalog number	List price
OT200	#4 – 300 kcmil	Cu/Al	6	OZXA-200	
	(6)#14 – #6 AWG	Cu/Al	3	OZXA-206T	
OT400	#2 – 600 kcmil	Cu/Al	6	OZXA-400	
	(2) #2 – 300 kcmil	Cu/Al	6	OZXA-402	
	(6) #14 – #6 AWG	Cu/Al	3	OZXA-406	
	(2) #4 – 500 kcmil	Cu/Al	6	OZXA-33	
OT600	(2) #2 – 600 kcmil	Cu/Al	6	OZXA-800	
OT800, OT1200	(4) #2 – 600 kcmil	Cu/Al	6	OZXA-1200	
OETL-NF1600	(4) #1/0 – 750 kcmil	Cu/Al	6	DSK8TL	
OETL-NF2000	(6) #1/0 – 750 kcmil	Cu/Al	6	DSK8TM	

Auxiliary contacts

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog ^① number	List price
1 N.O. 1 N.C. Module for aux. contacts	OT200-1200	10	600	OA1G10	
		10	600	OA3G01	
		10	600	OEA28	
1 N.O. + 1 N.C. 2 N.O. + 2 N.C. 4 N.O. + 4 N.C.	OETL-NF1600 & OETL-NF2000	10	600	OZXK-1	
		10	600	OZXK-2	
		10	600	OZXK-3	

① Mounting on the side of the switch: max. 8 auxiliary contact blocks with the OEA28 module

Mounting under the mechanism cover: OT200: Max. 4 test contacts or 2 test contacts + 2 test indication contacts.

OT400-600: Max. 4 test contacts + 4 test indication contacts. OT800-1200: Max 4 test indication contacts + 8 test contacts. The test contacts can be used as standard auxiliary contacts as well.

Detachable neutral links

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Mounting separately on baseplate protected construction	OT200	200	600	OXN250	
	OT400	400	600	OXN400	
	OT600	600	600	OXN800T	

Terminal shrouds (Snap-on mounting, grey plastic, IP30) ^① For both line and load sides

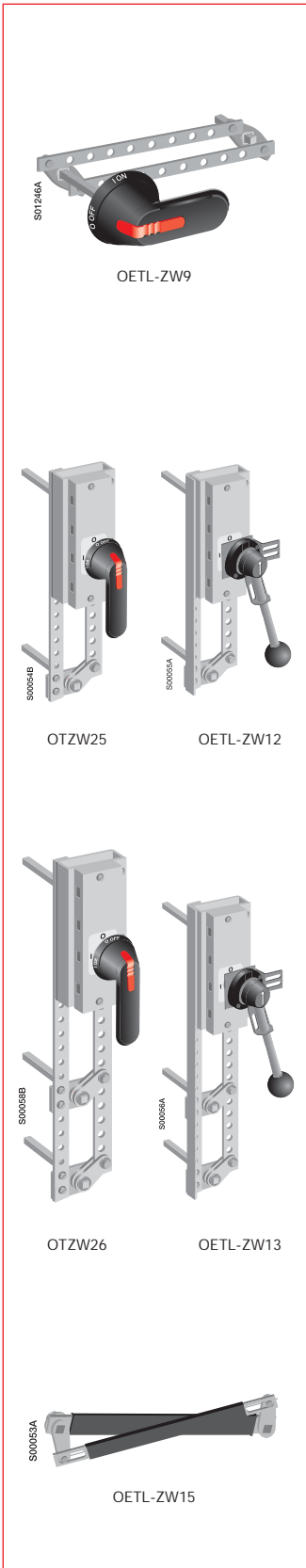
Description	For use on:	Qty per pkg	Quantity for full protection (pcs.) ^②	Catalog number	List price
Long type	OT200	3 x 1P	2	OTS250G1L/3	
Short type	OT200	3 x 1P	2	OTS250G1S/3	
Long type	OT400	3 x 1P	2	OTS400G1L/3	
Short type	OT400	3 x 1P	2	OTS400G1S/3	
Long type	OT600	3 x 1P	2	OTS800G1L/3	
Short type	OT600	3 x 1P	2	OTS800G1S/3	
Long type	OT800 -1200	3 x 1P	2	OTS1600G1L/3	
Short type	OT800 -1200	3 x 1P	2	OTS1600G1S/3	

Shaft extension coupler

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	6mm shafts	OESA-ZX167	
	12mm shafts	OETL-ZX95	

Mounting feet

Description	For use on:	Catalog number	List price
Mounting feet Screw	OT200	OEZKL1 FPMH3.5X12X-TX15	
Mounting feet Screw	OS200/400, OT400/600	OEZKL2 FPMH5X14X-TORX	



Conversion mechanisms

- For use with Base and Din rail mounted switches only
- Switches are not included

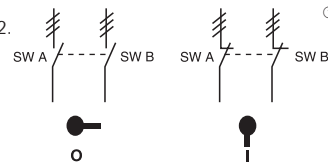
Description	For use on:	Catalog number	List price
6 or 8 pole Transfer Bypass Mechanical interlock	OT200	OESA-ZW2 OTZW25 OTZW26 OTZW10	
6 or 8 pole Transfer Bypass Mechanical interlock	OT400, OT600	OETL-ZW9 OETL-ZW12 OETL-ZW13 OETL-ZW15	

6 or 8 pole — OESA-ZW2, OETL-ZW9

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously. One shaft included with OESA-ZW2.

Equipment required for a complete installation :

- One conversion mechanism
- Two disconnect switches
- One handle OHB145J12 for OESA-ZW2 ②③
- OETL-ZW9 for OETL: use handle YASDA7 or 8
- Two additional shafts for OETL-ZW9



	POS.O	POS.I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Transfer - OTZW25, OETL-ZW12

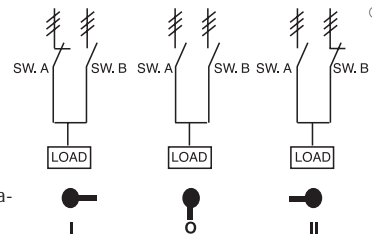
Transfer mechanism manually transfers between two power sources using two switches and a center OFF position.

A 3 position handle (OTZW25 = OHB95J12E011, OETL-ZW12 = YASDA-21) is included.

Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



	POS. I	POS.O	POS.II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

Bypass — OTZW26, OETL-ZW13

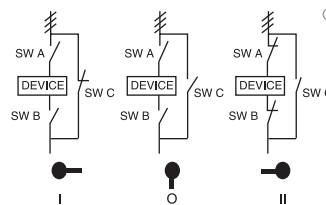
Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

A 3 position handle (OTZW26 = OHB95J12E011, OETL-ZW13 = YASDA-6) is included.

Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches



	POS. I	POS.O	POS.II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

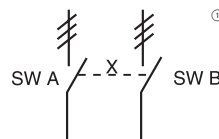
X = Closed
O = Open

Mechanical interlock — OTZW10, OETL-ZW15

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two shafts
- Two handles

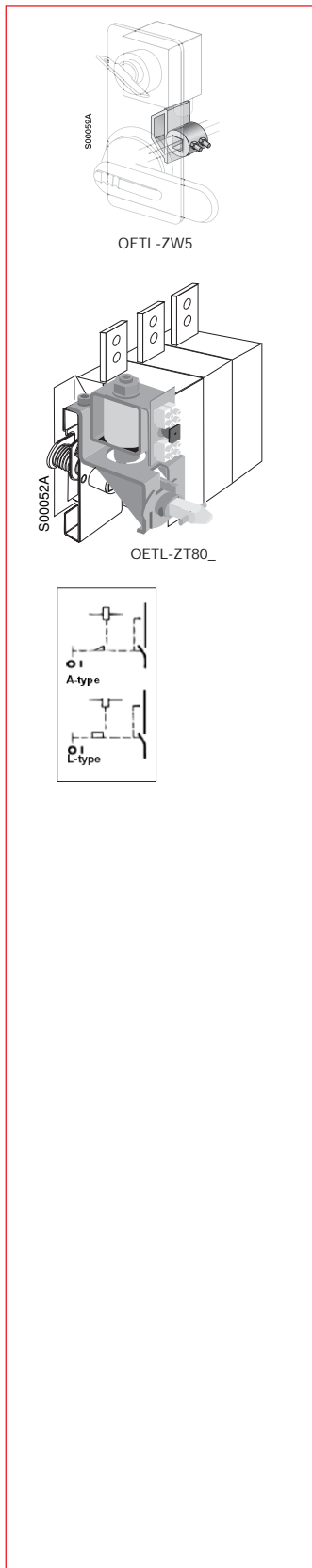


	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

① ≡ = Three poles

Motor operators for 1200A – 2000A Non-fusible disconnect switches



Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key, interlock. For adapting to the interlock system. The interlock is not included.	12mm shafts	OETL-ZW5	
Electrical interlock Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to ON-position and L-types cannot be operated to ON- or OFF-position. Coil voltages: 110VAC, 220VAC, VAC/DC (24VDC, 48VDC, 60 VDC,) 110VDC, 220VDC, P = 15W $U = 0.7 - 1.1 U_n$ (U = coil voltage, U_n = nominal voltage)	OETL-NF1600 OETL-NF2000	OETL-ZT80A/★ OETL-ZT80L/★	



★ – Coil voltage



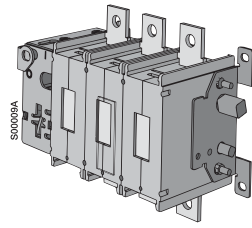
Other configurations

Side operated

30A – 800A

For a complete assembly, please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OETL-NF200A-S



OXP8X240



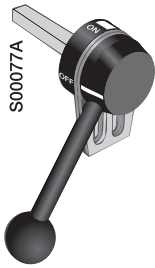
OHB80J8TE00S



OSNF30-S



OHY_J_



OETL-ZX74



OXP5X170
OXP8X240
OXP12X325



OZXA-24



OZXA-25



OZXA-26



OZXA-27

Side operated switches — 3 pole

CSA general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
30	32	5	7.5	7.5	15	20	OSNF30-S	
60	63	15	15	15	30	50	OSNF60-S	
100	125	25	25	30	60	75	OSNF100-S	
200	250	60	60	75	150	200	OETL-NF200A-S	
400	630	100	100	125	250	350	OETL-NF400-S	
600	800	150	150	200	400	500	OETL-NF600A-S	

Handles

UL/NEMA type	Color	Length mm	Marking	Defeatable	Padlockable	Catalog number	List price
For use with OSNF30-S							
1, 12, 3R	Black	65	O/I & OFF/ON	Yes	Yes	OHB65J5	
1, 12, 3R	Red/Yel	65	O/I & OFF/ON	Yes	Yes	OHY65J5	
For use with OSNF60-S — OSNF100-S							
1, 12, 3R	Black	80	O/I & OFF/ON	Yes	Yes	OHB80J6	
1, 12, 3R	Red/Yel	80	O/I & OFF/ON	Yes	Yes	OHY80J6	
For use with OETL-NF200A-S							
1, 12, 3R	Black	80	O/I & OFF/ON	Yes	Yes	OHB80J8	
1, 12, 3R	Red/Yel	80	O/I & OFF/ON	Yes	Yes	OHY80J8	
For use with OETL-400-S — OETL-NF600A-S							
1, 12, 3R	Black	145	O/I & OFF/ON	Yes	Yes	OHB145J12	
1, 12, 3R	Red/Yel	145	O/I & OFF/ON	Yes	Yes	OHY145J12	
1, 12, 3R	Metal	145	OFF/ON	Yes	Yes	OETL-ZX74	

Shafts

For use on :	Length mm	Description	Catalog number	List price
OSNF30-S	170	5 x 5mm	OXP5X170	
OSNF60-S – OSNF100-S	210	6 x 6mm	OXP6X210	
OETL-NF200A-S	240	8 x 8mm	OXP8X240	
OETL-NF400-S – OETL-NF600A-S	325	12 X 12mm	OXP12X325	

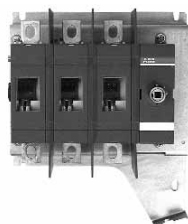
Terminal lug kits

For use on:	Wire size	Weight	Wire type	Lugs per kit	Catalog number	List price
OSNF30-S	#18 – 8	—	Cu	—	Integral	
OSNF60-S	#14 – 4	—	Cu	—	Integral	
OSNF100-S	#14 – 2/0	0.43	Cu/Al	6	OZXA-24	
OETL-NF200A-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZXA-25	
OETL-NF400-S	#2 – 600 kcmil	3.520	Cu/Al	6	OZXA-26	
OETL-NF600A-S	(2) #2 – 600 kcmil	4.62	Cu/Al	6	OZXA-27	

Other configurations

Flange operated disconnect switches

Cable operated non-fusible



OT200U03-FC



OHF1C12



OXC1L36

Flange operated switches 30A- 200A – 3 pole

CSA general purpose amp rating	Maximum horsepower rating					Catalog number	List price
	Three phase						
	200V	208V	240V	480V	600V		
30	10	10	10	20	30	OT30E3-FC	
60	20	20	20	40	40	OT60E3-FC	
100	25	25	30	50	50	OT100E3-FC	
125	30	30	40	75	100	OT160E3-FC	
200	60	60	75	150	200	OT200U03-FC	

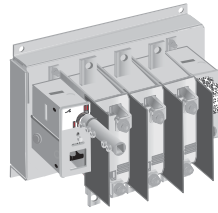
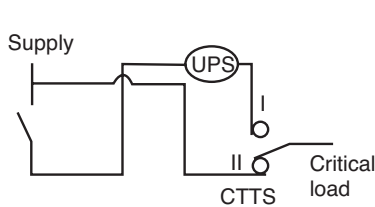
Handles

CSA/NEMA type	Color	Length (mm)	Marking	Defeatable	Padlockable	Catalog number	List price
1, 3R, 12	Metal	175	O/I & Off/On	Yes	Yes	OHF1C12	
4, 4X	Metal	175	O/I & Off/On	Yes	Yes	OHF1C4	

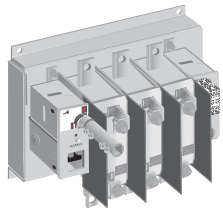
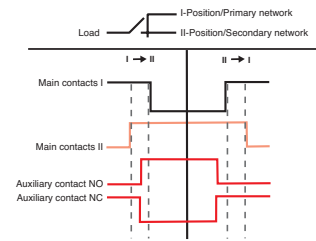
Cable

For use with:	Cable length (inches)	Catalog number	List price
OT30_ - OT400_	36	OXC1L36	
	48	OXC1L48	
	60	OXC1L60	
	72	OXC1L72	
	84	OXC1L84	
	96	OXC1L96	
	108	OXC1L108	

① Terminal lug kits are on page 1.21



OESC250K03



OESC250K03

Description

The OESC range is a "make before break" or Closed Transition Transfer Switch type that guarantees a transfer from the static switch to the power line as manual bypass switch and back again without any interruption. This ensures equipment is powered, even when maintenance work is carried out. The OESC switches are available with double rated neutral to withstand the thermal overload from the harmonics normally produced by the UPS and added up in the neutral conductor. The range is UL508 recognized.

General character and use

OESC switches are open type and manually operated. They are intended for use as maintenance switches in UPS applications. The unit is intended to switch between normal and maintenance positions, with an overlapping time (closed transition) of a minimum of 8 msec.

Bypass switches — 3-pole, I-II indication

UL general purpose amp rating	IEC AC22 amp rating	Voltage AC	Isc rms ^① kA	Catalog number	List price
250	250	480	50	OESC250K03	
500	500	480	50	OESC500K03	

The switch includes a black handle OHB175J12E16, a shaft OXP12X325 and bolt set for the cable connections. The bridging bars between the load supplies are also included.

Bypass switches — 4-pole, I-II indication

UL general purpose amp rating	IEC AC22 amp rating	Voltage AC	Isc rms ^① kA	Catalog number	List price
250	250	480	50	OESC250K04	
500	500	480	50	OESC500K04	

The switch includes a black handle OHB175J12E16, a shaft OXP12X325 and bolt set for the cable connections. The bridging bars between the load supplies are also included.

Bypass switches — 4-pole, with double rated neutral, I-II indication

UL general purpose amp rating	IEC AC22 amp rating	Voltage AC	Isc rms ^① kA	Catalog number	List price
250	250	480	50	OESC250K04N2	
400	400	480	50	OESC400K04N2	

The switch includes a black handle OHB175J12E16, a shaft OXP12X325 and bolt set for the cable connections. The bridging bars between the load supplies are also included.

Auxiliary contacts — Early break, late make

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. + 1 N.C.	OESC250...500	10	600	OZXK-1	
2 N.O. + 2 N.C.		10	600	OZXK-2	
4 N.O. + 4 N.C.		10	600	OZXK-3	

The auxiliary contacts are of the early break type which means that the NO auxiliary contacts break before the main contacts open.

^① Isc rms 50kA, 480VAC with 600A Class J fuses (600 VAC / 200kA)



CSA & UL Technical data for Non-fusible disconnect switches OT16E3 – OT160E3

CSA & UL

Catalog number	3 pole	OT16E3	OT25E3	OT32E3	OT45E3	OT63E3	OT30E3	OT60E3	OT100E3	OT160E3	
*Approvals ^①	2 pole 3 pole 4 pole	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.4 CSA C22.2 No.4	N/A CSA C22.2 No.4 CSA C22.2 No.4	N/A CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	
General purpose amp rating	-40°C to 40°C pf = 0.7 – 0.8	A	16	25	40	60	80	30	60	100	125
Max. operating voltage	V	600	600	600	600	600	600	600	600	600	
Max. horsepower rating/motor FLA current,	pf = 0.4 – 0.5										
Three phase	208V HP/A	3/10.6	7.5/24.2	10/31	15/46	20/60	10/31	20/60	25/75	30/88	
	240V HP/A	5/15.2	7.5/22	10/28	15/42	20/54	10/28	20/54	30/80	40/104	
	480V HP/A	10/14	15/21	20/27	30/40	40/52	20/27	40/52	50/65	75/96	
	600V HP/A	10/11	20/22	25/27	30/32	40/41	30/32	40/41	50/52	100/99	
Single phase	120V HP/A	1/16	1.5/20	2/24	2/24	2/24	2/24	3/34	5/56	7.5/80	
	240V HP/A	2/13	3/19	5/31	7.5/40	10/58	5/31	7.5/40	15/68	20/88	
Short circuit rating with fuse											
Fuse type CC	kA	10	10	10	—	—	—	—	—	—	
Fuse type J	kA	10	10	10	100	100	50	50	50	100	
Fuse type T	kA	10	10	10	100	100	50	50	50	—	
Fuse type RK1	kA	10	—	10	—	—	—	—	—	—	
Fuse type RK5	kA	5	5	5	10	10	5	—	—	—	
Fuse type L	kA	—	—	—	—	—	—	—	—	—	
Fuse type H	kA	—	—	—	5	5	—	—	—	—	
Fuse size	A	30 60	30 60	30 60	100 150	100 150	60	150	150	200	
Short circuit rating with MCCB	kA	—	—	—	—	—	—	—	—	25	
Endurances											
Min. Electrical endurance, pf = 0.75 – 0.80	operation cycles	6000	6000	6000	6000	6000	6000	6000	6000	6000	
Min. Electrical endurance, pf = 0.40 – 0.50	operation cycles	1000	1000	1000	1000	1000	1000	②	②	②	
Mechanical endurance	operations	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	16,000	
Physical characteristics											
Weight, switches	3 pole Kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	0.36	1.1	
	4 pole Kg	0.15	0.15	0.15	0.35	0.35	0.5	0.5	0.5	1.3	
Dimension, switches	3 pole H mm	68	68	68	91	91	100	100	100	127	
	W mm	35	35	35	53	53	70	70	70	126	
	D mm	56	56	56	72	72	75	75	75	74	
Shaft size — square □	mm	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	6 x 6	
Switch operating torque for rotary 3 pole switches	lb. in.	8.8	8.8	8.8	10.5	10.5	17.5	17.5	17.5	52.5	
Terminal lug kits											
Wire range	AWG	Not required #18 – #8	Not required #18 – #8	Not required #18 – #8	Not required #14 – #1	Not required #14 – #1	Not required #14 – #4	Not required #14 – #4	Not required #8 – 1/0	Not required #8 – 1/0	
Torque:											
Wire tightening	lb. in.	7	7	7	18	18	55	55	55	70	
Lug mounting	lb. in.	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	
Auxiliary contacts											
NEMA ratings, AC		OA1G_ _ A600	OA1G_ _ A600	OA1G_ _ A600	OA1G_ _ A600	OA1G_ _ A600	OA1G_ _ A600	OA1G_ _ A600	OA1G_ _ A600	OBEA_ _ A600	
AC rated voltage	VAC	600	600	600	600	600	600	600	600	600	
AC thermal rated current	A	10	10	10	10	10	10	10	10	10	
AC maximum volt-ampere making	VA	7200	7200	7200	7200	7200	7200	7200	7200	7200	
AC maximum volt-ampere breaking	VA	720	720	720	720	720	720	720	720	720	
NEMA ratings, DC		R300	R300	R300	R300	R300	R300	R300	R300	P600	
DC rated voltage	VDC	300	300	300	300	300	300	300	300	600	
DC thermal rated current	A	1	1	1	1	1	1	1	1	5	
DC maximum make-break	VA	28	28	28	28	28	28	28	25	138	
Torque:											
Wire tightening	lb. in.	7	7	7	7	7	7	7	7	7	
Wire range	AWG	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	

① CSA Approved switches are also UL Listed.

② UL98 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.

CSA & UL Technical data

for Non-fusible disconnect switches

OT200U03 – OETL-NF2000



CSA & UL

Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OETL-NF1600	OETL-NF2000
Approvals ^①	2 pole 3 pole 4 pole	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 IEC	CSA C22.2 No.4 CSA C22.2 No.4 IEC
General purpose amp rating pf = 0.7 – 0.8	40°C A	200	400	600	800	1200	1600	2000
Max. operating voltage	V	600	600	600	600	600	600	480
Max. horsepower rating/Max. motor FLA current, pf = 0.4 – 0.5								
Three phase	208V HP/A 240V HP/A 480V HP/A 600V HP/A	60/178 75/192 150/180 200/192	100/286 125/312 250/302 350/336	150/416 200/480 450/515 500/472	200/528 250/602 500/590 500/576	— — — —	— — — —	— — — —
Single phase	120V HP/A 240V HP/A	— —	— —	— —	— —	— —	— —	— —
Short circuit rating with fuse								
Fuse type CC	kA	—	—	—	—	—	—	—
Fuse type J	kA	100 65	100	100	—	—	—	—
Fuse type T	kA	—	—	100	—	—	—	—
Fuse type RK1	kA	—	—	—	—	—	—	—
Fuse type RK5	kA	—	—	—	—	—	—	—
Fuse type L	kA	—	—	100	100	100	100	100
Fuse type H	kA	—	—	—	—	—	—	—
Fuse size	A	200 400	600	800	1200	1200	2000	2000
Short circuit rating with MCCB	kA	15	30	50	50	50	65	65
Endurances								
Min. Electrical endurance, pf = 0.75 – 0.80	operation cycles	6000	1000	1000	500	500	500	500
Min. Electrical endurance, pf = 0.40 – 0.50	operation cycles	②	②	②	②	②	②	②
Mechanical endurance	operations	20,000	16,000	10,000	6000	6000	6000	1200
Physical characteristics								
Weight, switches	3 pole Kg 4 pole Kg	1.2 1.5	2.2 2.8	5.2 6.5	17 19.5	19 22	58 68	58 68
Dimension, switches	3 pole H mm W mm D mm	170 170 84	220 221 105	250 266 139	372 334 141	372 334 141	636 468 271	636 468 271
Shaft size — square	mm	6 x 6	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12
Switch operating torque for rotary 3 pole switches	lb. in.	62	142	184	184	184	438	438
Terminal lug kits		OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200	OZXA-28	OZXA-28/2
Wire range	AWG	#4-300kcmil ^③	#2-600kcmil	(2)#2-600kcmil	(4)#2-600kcmil	(4)#2-600kcmil	(4)#2-600kcmil	(8)#2-600kcmil
Torque:								
Wire tightening	lb. in.	200	375	375	375	375	375	375
Lug mounting	lb. in.	75	240	240	240	240	230	230
Auxiliary contacts		OA1G-__	OA1G-__	OA1G-__	OA1G-__	OA1G-__	OZXC-__	OZXC-__
NEMA ratings, AC		A600	A600	A600	A600	A600	A600	A600
AC rated voltage	VAC	600	600	600	600	600	600	600
AC thermal rated current	A	10	10	10	10	10	10	10
AC maximum volt-ampere making	VA	7200	7200	7200	7200	7200	7200	7200
AC maximum volt-ampere breaking	VA	720	720	720	720	720	720	720
NEMA ratings, DC		P600	P600	P600	P600	P600	P600	P600
DC rated voltage	VDC	600	600	600	600	600	600	600
DC thermal rated current	A	5	5	5	5	5	5	5
DC maximum make-break	VA	138	138	138	138	138	138	138
Torque:								
Wire tightening	lb. in.	7	7	7	7	7	7	7
Wire range	AWG	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14

① CSA Approved switches are also UL Listed.
 ② CSA 22.2 No. 4 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.
 ③ Multi-tap lug available, please see pg. 1.21.



IEC Technical data

for Non-fusible disconnect switches
OT16E3 – OT160E3

			IEC						
Catalog number	3 pole		OT16E3	OT25E3	OT32E3	OT45E3	OT63E3	OT100E3	OT160E3
Rated insulation and operational voltage, AC20 and DC20	40°C V		750	750	750	750	750	750	750
Rated impulse withstand voltage	kV		8	8	8	8	8	8	12
Rated thermal current, I _{th}									
AC 20/DC 20	open	A	25	32	40	63	80	115	200
	40°C enclosed	A	25	32	40	63	80	115	160
	60°C enclosed	A	25	32	40	63	80	115	160
Rated operational currents									
AC-22A	Up to 415 V	A	16	25	40	63	80	100	160
	440 - 500 V	A	16	25	40	63	80	100	160
	690 V	A	16	25	40	63	80	100	160
AC-23A	Up to 415 V	A	16	20	23	45	75	80	135
	440 - 500 V	A	16	20	23	45	58	60	125
	690 V	A	10	11	12	20	20	40	80
Rated operational currents/poles in series									
DC21A	48V	A	16/1	25/1	32/1	45/1	63/1	100/1	160/1
	110V	A	16/2	25/2	32/2	45/2	63/2	100/2	160/1
	220V	A	16/3	25/3	32/3	45/4	63/4	100/4	160/2
	440V	A	16/4	25/6	32/6	—	—	—	160/3
	750V	A	16/8	25/8	32/8	—	—	—	160/4
DC22A	48V	A	16/1	25/1	32/1	45/1	63/1	100/1	160/1
	110V	A	16/2	25/2	32/2	45/2	63/2	100/2	160/1
	220V	A	16/3	25/3	32/4	45/4	63/4	100/2	160/1
	440V	A	16/6	25/6	—	—	—	—	160/3
	750V	A	16/8	25/8	—	—	—	—	—
DC23A	48V	A	16/1	25/1	32/1	45/1	63/1	100/1	160/1
	110V	A	16/2	25/2	32/2	45/2	63/2	100/2	160/1
	220V	A	16/4	25/4	32/4	45/4	63/4	100/2	160/2
	440V	A	10/4	—	—	—	—	—	160/3
	750V	A	16/8	—	—	—	—	—	—
Rated operational power									
AC23A	230V	kW	3	4	5.5	11	22	22	45
	400/415V	kW	7.5	9	11	22	37	37	75
	500V	kW	7.5	9	11	22	37	37	75
	690V	kW	7.5	9	11	15	18.5	37	75
Short-circuit current	kA		50	50	50	50	50	50	100
with back-up fuses of size	A		25	32	40	63	80	100	200
Rated short-circuit making capacity, prospective peak value, I _{cm} 690V	kA		0.7	0.7	0.7	1.4	2.1	3.6	12
Rated short time withstand current,									
RMS I _{cw}	0.2s	kA	—	—	—	—	—	—	7
RMS I _{cw}	1.0s	kA	0.5	0.5	0.5	1	1.5	2.5	4
AC breaking capacity									
pf = 0.35	≤415V	A	128	160	184	240	304	640	1080
	≤500V	A	128	160	184	240	256	480	1000
	≤690V	A	80	88	96	160	160	320	640
DC breaking capacity/poles in series									
L/R = 15ms	≤48V	A	64/1	100/1	128/1	180/1	252/1	400/1	640/1
	≤110V	A	64/2	100/2	128/2	180/2	180/2	400/2	640/1
	≤220V	A	64/3	100/4	128/4	180/4	180/4	252/4	640/2
	≤440V	A	40/4	40/4	40/4	40/4	40/4	—	640/3
	≤750V	A	64/8	64/8	64/8	—	—	—	—

IEC Technical data

for Non-fusible disconnect switches

OT200 – OETL-NF2000



			IEC						
Catalog number	3 pole		OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OETL-NF1600	OETL-NF2000
Rated insulation and operational voltage, AC20 and DC20	40°C	V	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage		kV	12	12	12	12	12	8	8
Rated thermal current, I_{th}									
AC 20/DC 20	open	A	250	400	800	1250	1600	2500	3150
	40°C enclosed	A	250	400	800	1250	1600	2300	2300
	60°C enclosed	A	—	—	—	1000	1250	1950	1950
Rated operational currents									
AC 22A	Up to 415 V	A	250	400	800	1000	1600	2500	2500
	440 - 500 V	A	250	400	800	1000	1600	2500	2500
	690 V	A	250	400	800	800	1250	—	—
AC 23A	Up to 415 V	A	250	400	800	800	1000	1600	1600
	440 - 500 V	A	250	400	800	800	1000	—	—
	690 V	A	250	400	800	650	650	—	—
Rated operational currents									
DC21A	48V	A	250/1	400/2	800/2	—	—	2500/2	2500/2
	110V	A	250/2	400/2	800/2	—	—	2500/2	2500/2
	220V	A	250/2	400/2	800/2	—	—	2500/2	2500/2
	440V	A	250/3	400/3	800/3	—	—	2500/3	2500/3
	750V	A	250/4	—	—	—	—	—	—
DC22A	48V	A	250/1	400/2	800/2	—	—	2500/2	2500/2
	110V	A	250/2	400/2	800/2	—	—	2500/2	2500/2
	220V	A	250/2	400/2	800/2	—	—	2500/2	2500/2
	440V	A	250/3	400/3	800/3	—	—	—	—
	750V	A	250/4	—	—	—	—	—	—
DC23A	48V	A	250/1	630/2	—	—	—	—	—
	110V	A	250/2	630/2	—	—	—	—	—
	220V	A	250/2	630/2	—	—	—	—	—
	440V	A	250/3	—	—	—	—	—	—
	750V	A	250/4	—	—	—	—	—	—
Rated operational power									
AC23A	230V	kW	75	110	—	—	250	250	250
	400/415V	kW	132	220	450	560	400	400	400
	500V	kW	170	280	560	710	450	450	450
	690V	kW	240	390	800	800	—	—	—
Short-circuit current with back-up fuses of size		kA	100	100	100	50	50	50	50
		A	355	500	800	1000	1250	1600	2000
Rated short-circuit making capacity, prospective peak value, I _{cm} 690V		kA	30	65	80	110	110	105	105
Rated short time withstand current,									
RMS I _{cw}	0.2s	kA	15	24	36	50	56	—	—
RMS I _{cw}	1.0s	kA	8	15	20	50	50	80	80
AC breaking capacity									
pf = 0.35	≤415V	A	2000	3200	5760	10000	10000	6400	6400
	≤500V	A	2000	3200	5600	10000	10000	6400	6400
	≤690V	A	2000	3200	5600	6400	6400	4800	4800
DC breaking capacity									
	48V	A	1000/2	—	—	—	—	—	—
	110V	A	1000/2	—	—	—	—	—	—
	220V	A	1000/2	1600/2	2000/2	1900/2	2600/2	2600/2	2600/2
	440V	A	1000/3	1600/3	2000/3	—	—	—	—
	750V	A	1000/4	—	—	—	—	—	—



Selecting switches per CEC & IEC

Selecting switches per CEC

Section 28 of the Canadian Electric Code includes two methods for properly sizing disconnect switches:

1. Single motor application

A properly sized disconnect switch for a single motor will:

- a) have an ampere rating greater than or equal to 115 percent of the rated motor full load current; or,
- b) have a HP rating greater than or equal to the rated motor HP (at applied voltage) if the disconnect switch under consideration is HP rated.

2. Combination load application

A properly sized disconnect switch for a combination load will be selected by adding all the simultaneous individual loads in the circuit under consideration.

Using motor nameplate information, load information, and tables from section 28 of the CEC, determine one equivalent full load current and plus 15% of the largest motor determine an equivalent HP rating. Select a disconnect switch:

- a) greater than or equal to 115 percent of the equivalent full load current; and,
- b) greater than or equal to the equivalent HP rating.

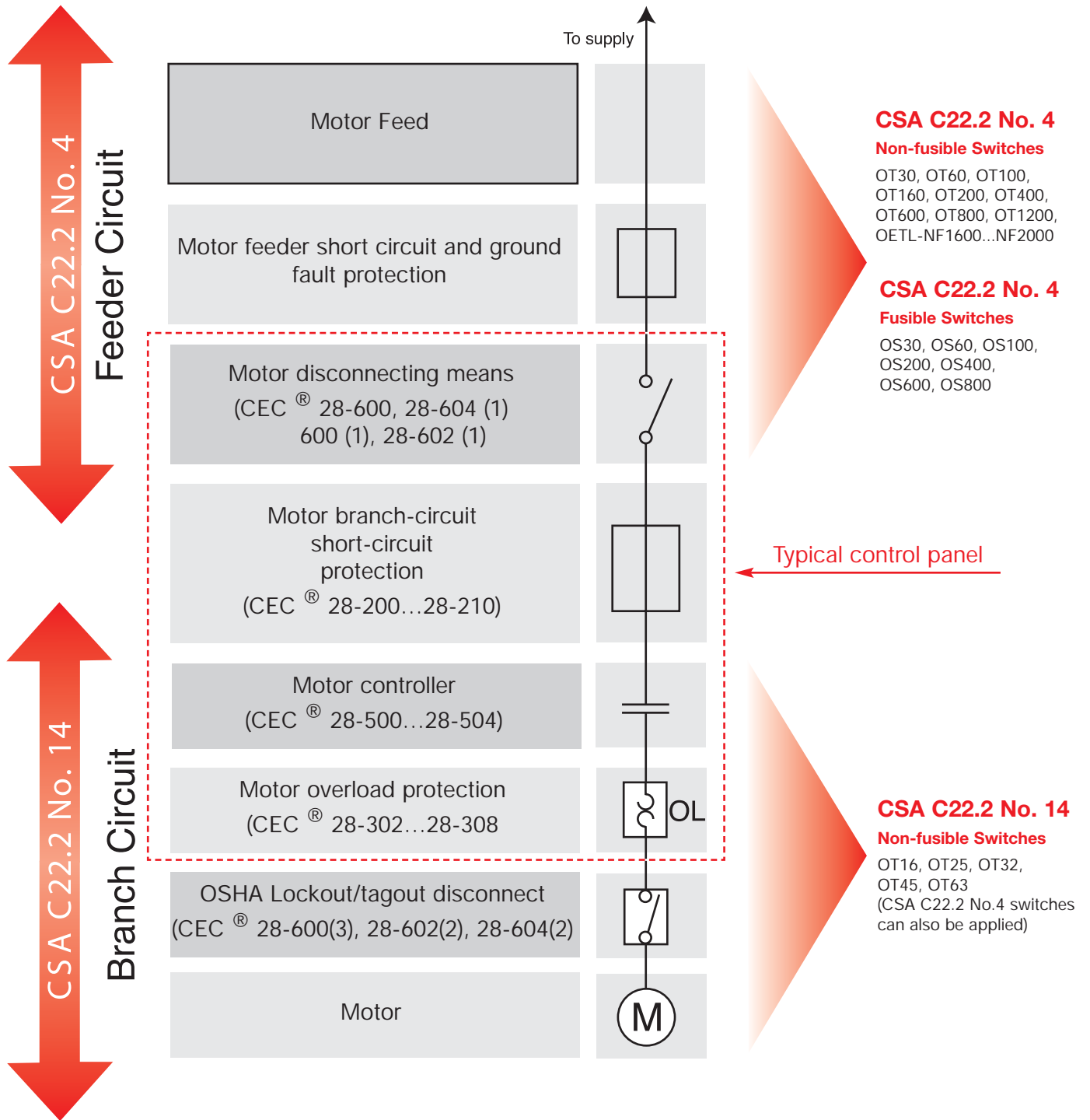
Selecting switches per IEC

Utilization categories

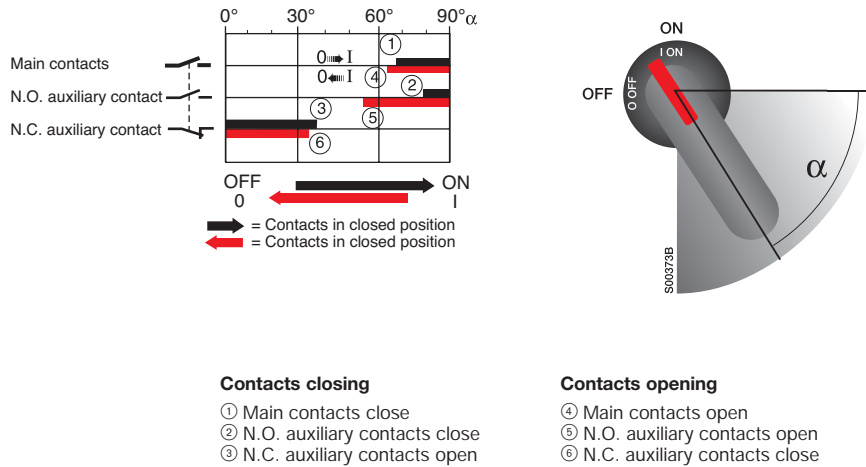
Nature of current	Utilization category		Typical applications
	Frequent operation	Infrequent operation	
Alternating current	AC-20A	AC-20B	<ul style="list-style-type: none"> • Connecting and disconnecting under no-load conditions • Switching of resistive loads including moderate overloads (PF > 0.95) • Switching of mixed resistive and inductive loads, including moderate overloads (PF > 0.65) • Switching of motor loads or other highly inductive loads (PF > 0.45 below 100A; PF > 0.35 above 100A)
	AC-21A	AC-21B	
	AC-22A	AC-22B	
	AC-23A	AC-23B	
Direct current	DC-20A	DC-20B	<ul style="list-style-type: none"> • Connecting and disconnecting under no-load conditions • Switching of resistive loads including moderate overloads (L/R < 1ms) • Switching of mixed resistive and inductive loads, including moderate overloads e.g., shunt motors (L/R < 2.5ms) • Switching of highly inductive loads e.g., series motors (L/R < 15ms)
	DC-21A	DC-21B	
	DC-22A	DC-22B	
	DC-23A	DC-23B	
Mechanical endurance	Number of operations	Number of operations	
100A	10,000	2000	
315A	8000	1600	
>315A	2000	400	

•Category AC-23 includes occasional switching of individual motors. The switching of capacitors of tungsten filament lamps shall be subject to agreement between manufacturer and user.

Use of CSA C22.2 No. 4 & No. 14 Disconnects According to CEC[®] Section 28

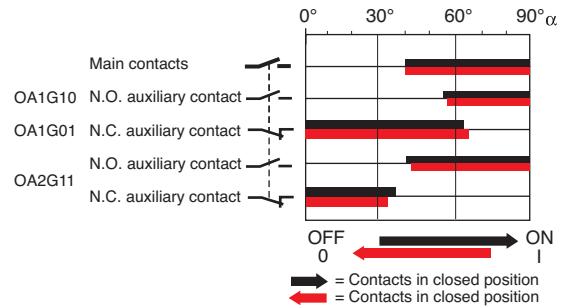


Legend



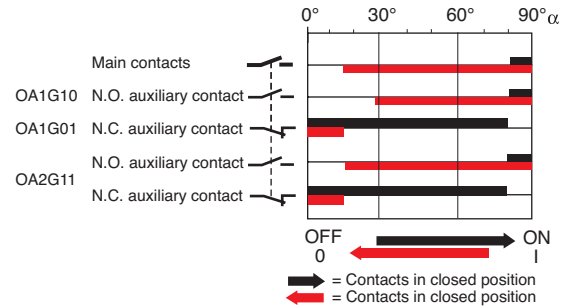
OT16, OT25, OT32

Catalog number	Auxiliary contact	Contact configuration
OT16, OT25, OT32	OA1G10 OA1G01 OA2G11	1 N.O. 1 N.C. 1 N.O. & 1 N.C.



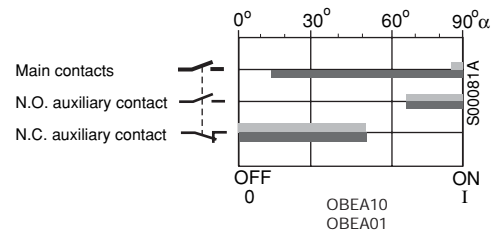
OT45, OT63, OT30, OT60, OT100

Catalog number	Auxiliary contact	Contact configuration
OT45, OT63 OT30, OT60, OT100	OA1G10 OA1G01 OA2G11	1 N.O. 1 N.C. 1 N.O. & 1 N.C.



OT160

Catalog number	Auxiliary contact	Contact configuration
OT160	OBEA10 OBEA01	1 N.O. 1 N.C.

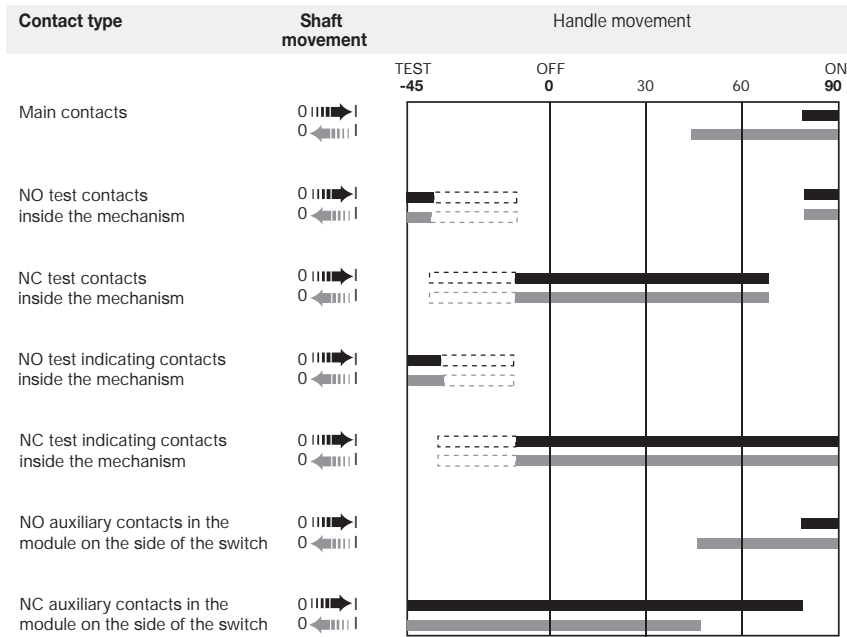


Auxiliary contact timing diagrams for Non-fusible disconnect switches OT200 - OETL-NF2000



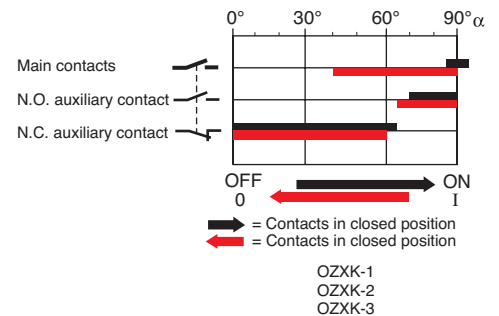
OT200U03 – OT1200U03

Catalog number	Auxiliary contact	Contact configuration
OT200U03 – OT1200U03	OA1G10 OA3G01	1 N.O. 1 N.C.



OETL-NF1600 – OETL-NF2000

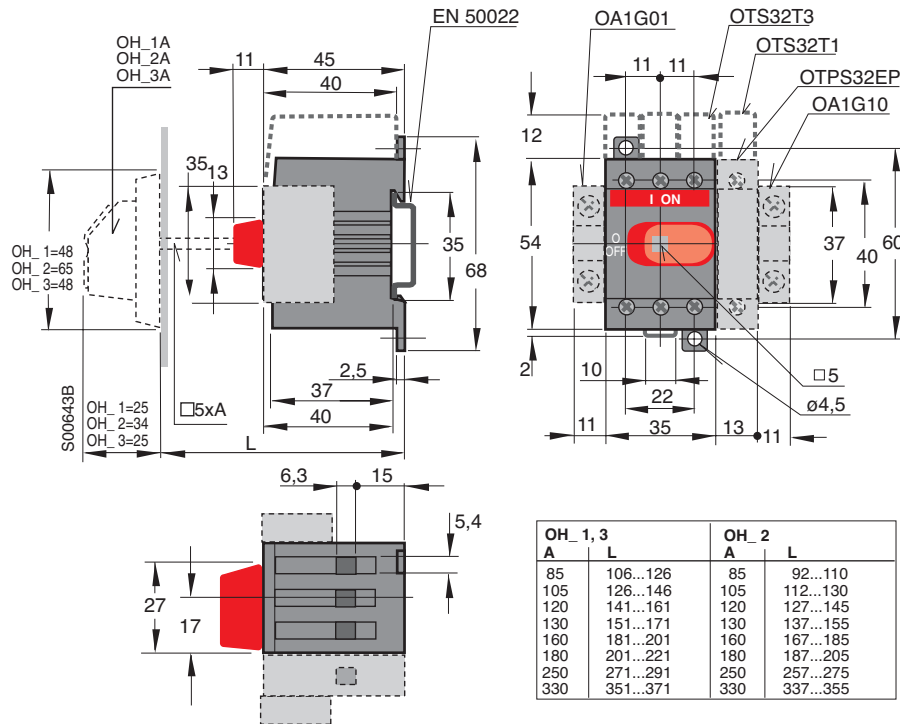
Catalog number	Auxiliary contact	Contact configuration
OETL-NF1600 – OETL-NF2000	OZXK-1 OZXK-2 OZXK-3	1 N.O. & 1 N.C. 2 N.O. & 2 N.C. 4 N.O. & 4 N.C.



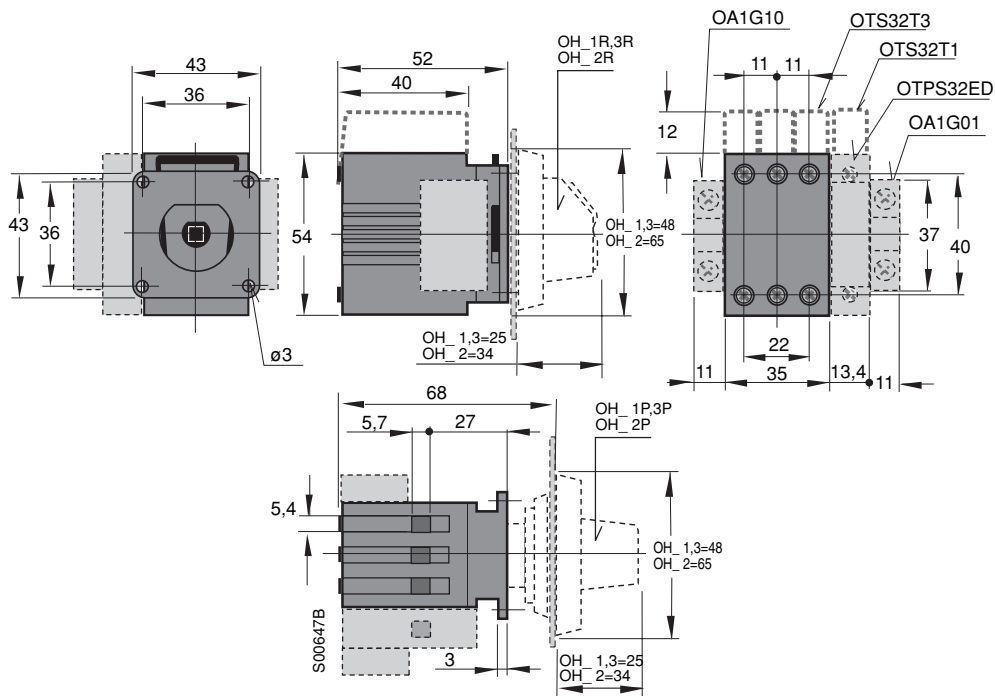


Approximate dimensions Non-fusible disconnect switches OT16 – OT32

OT16E3 – OT32E3 – base & DIN rail mounted switch



OT16ET3 – OT32ET3 – door mounted switch



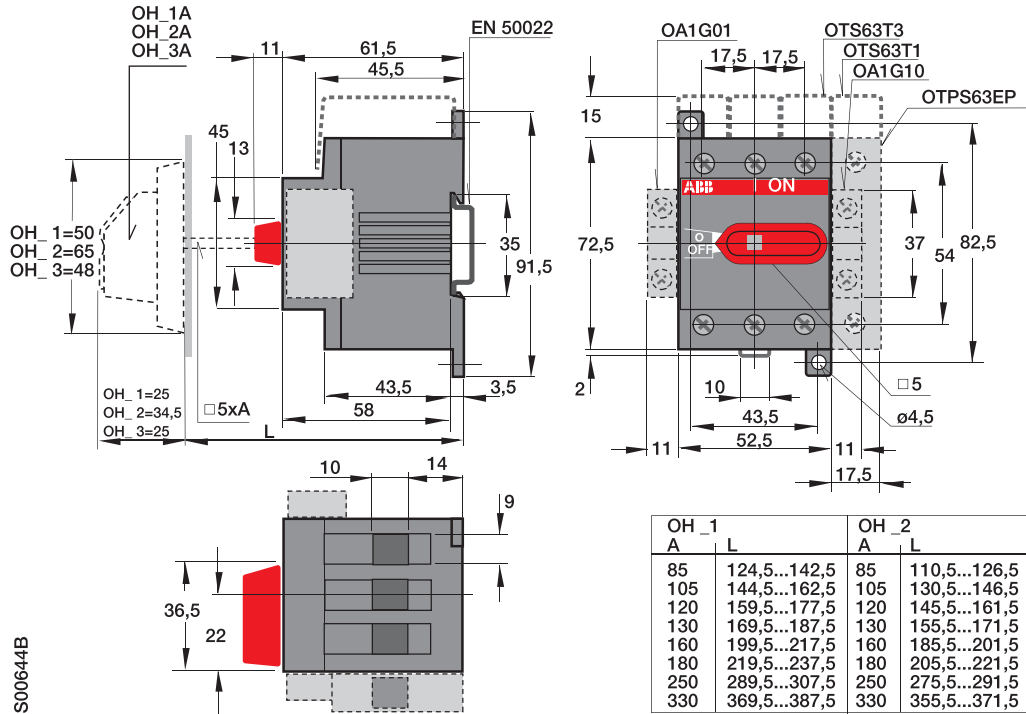
Approximate dimensions

Non-fusible disconnect switches

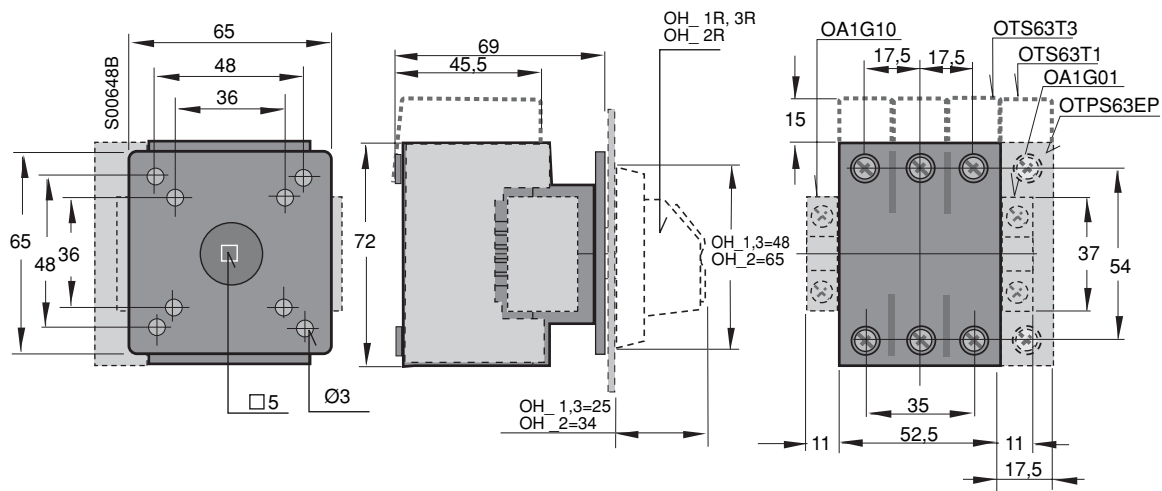
OT45 – OT63



OT45E3 – OT63E3 – base & DIN rail mounted switch



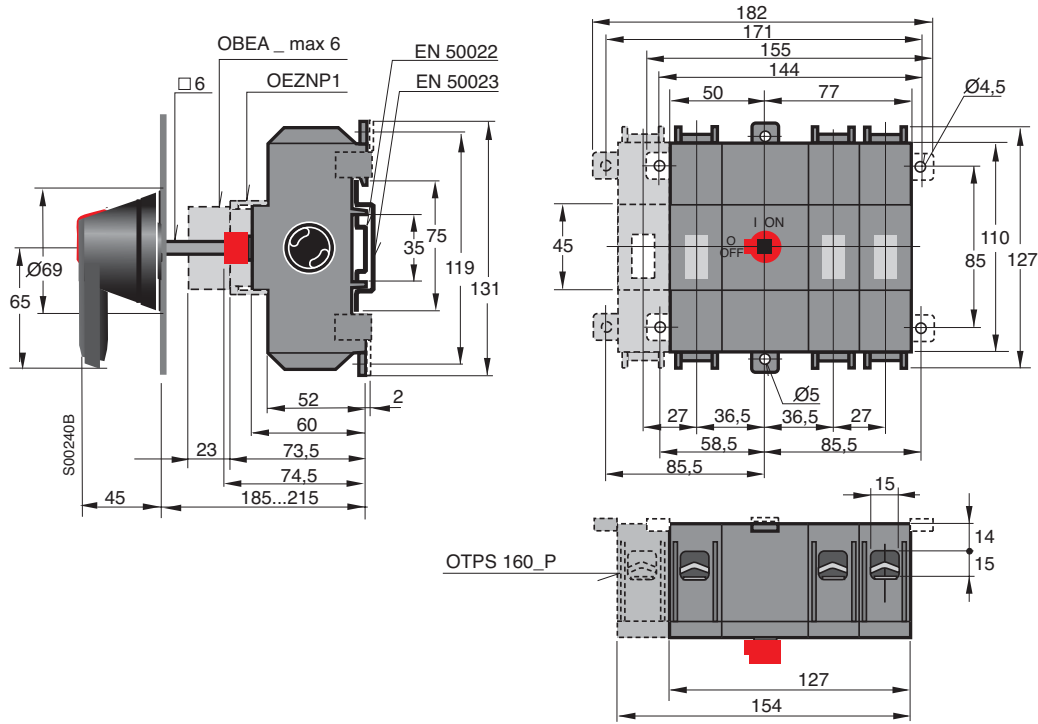
OT45ET3 – OT63ET3 – door mounted switch



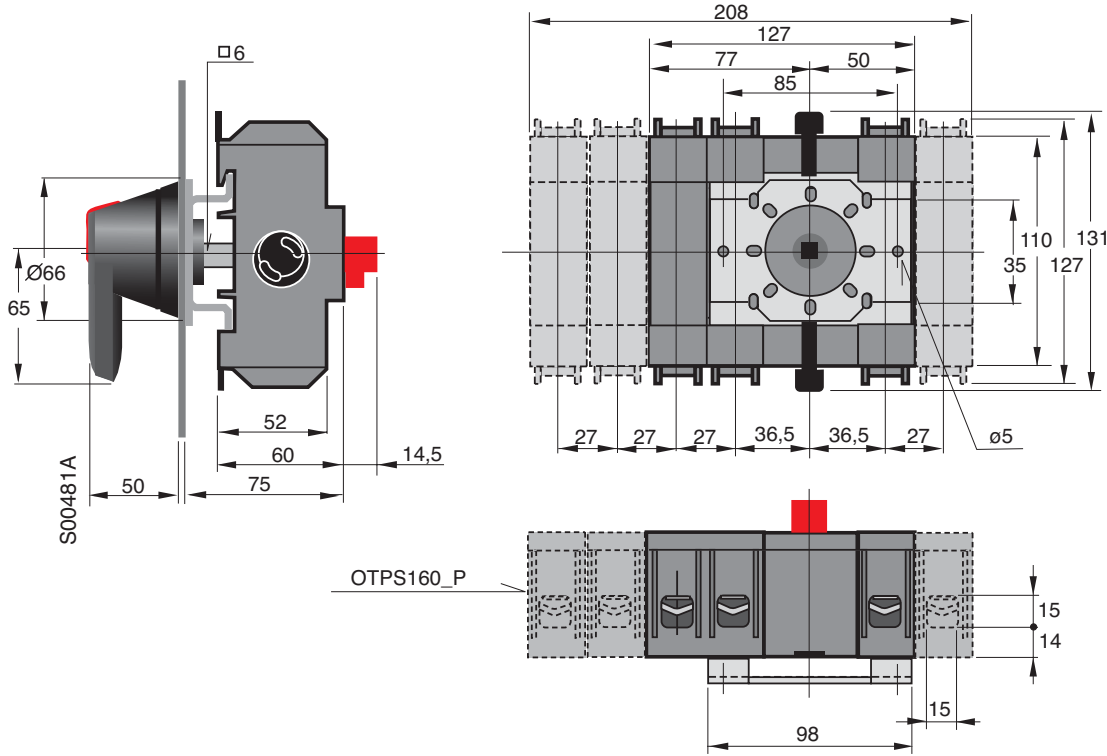
Approximate dimensions
Non-fusible disconnect switches
OT160



OT160E3 – base & DIN rail mounted switch



OT160ET3 – Door mounted switch

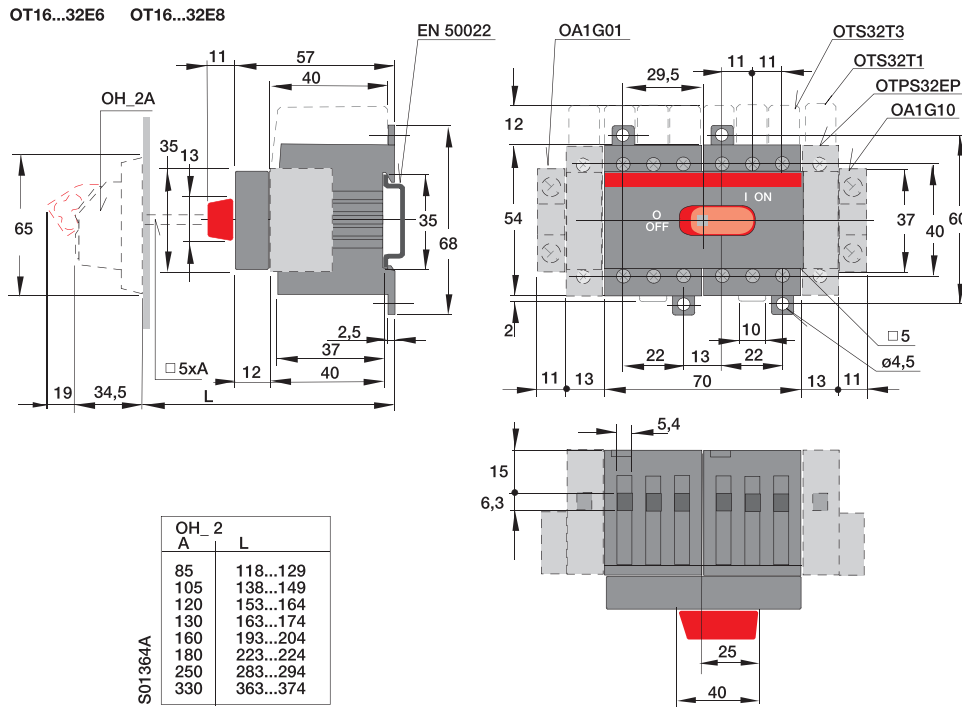




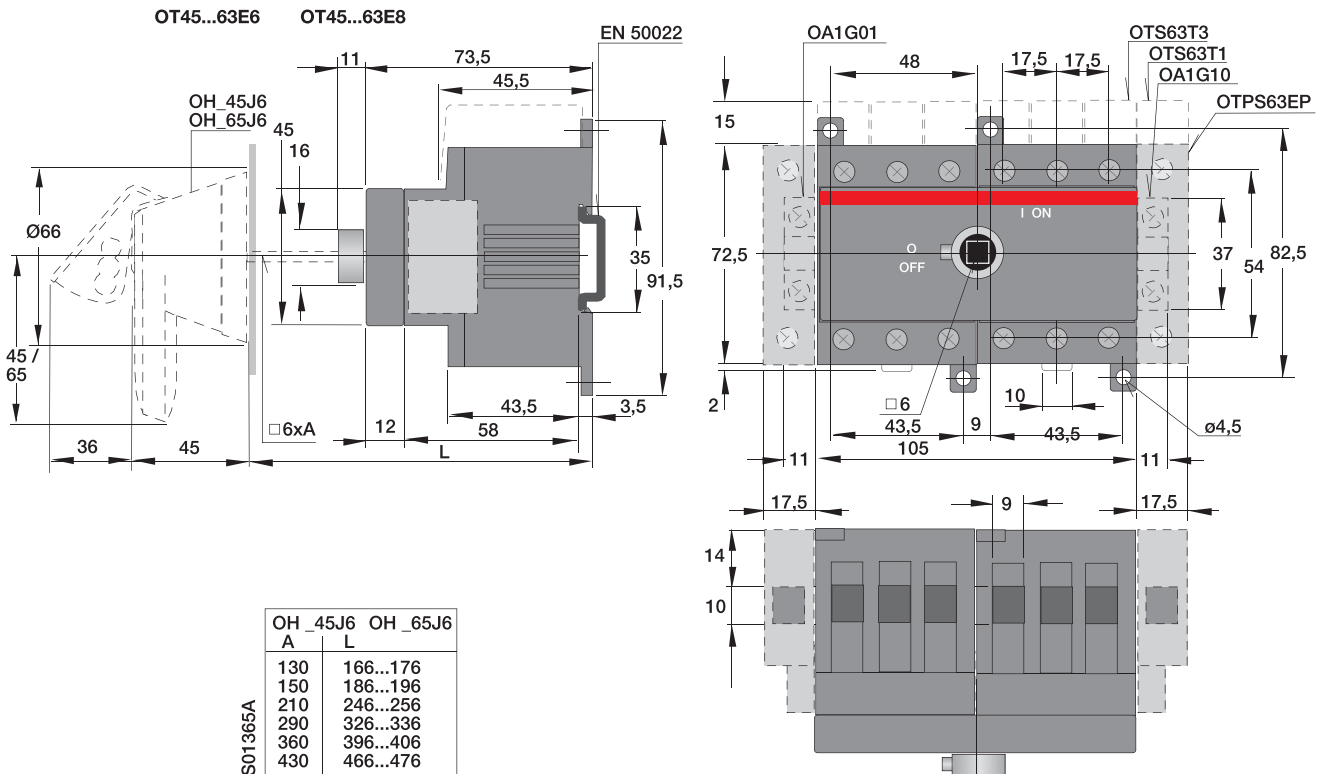
Approximate dimensions OT16E6 & E8 – OT63E6 & E8 6-pole switches

← 00 → Millimeters

OT16, 25, 32E6 & E8 — 6 Pole switches



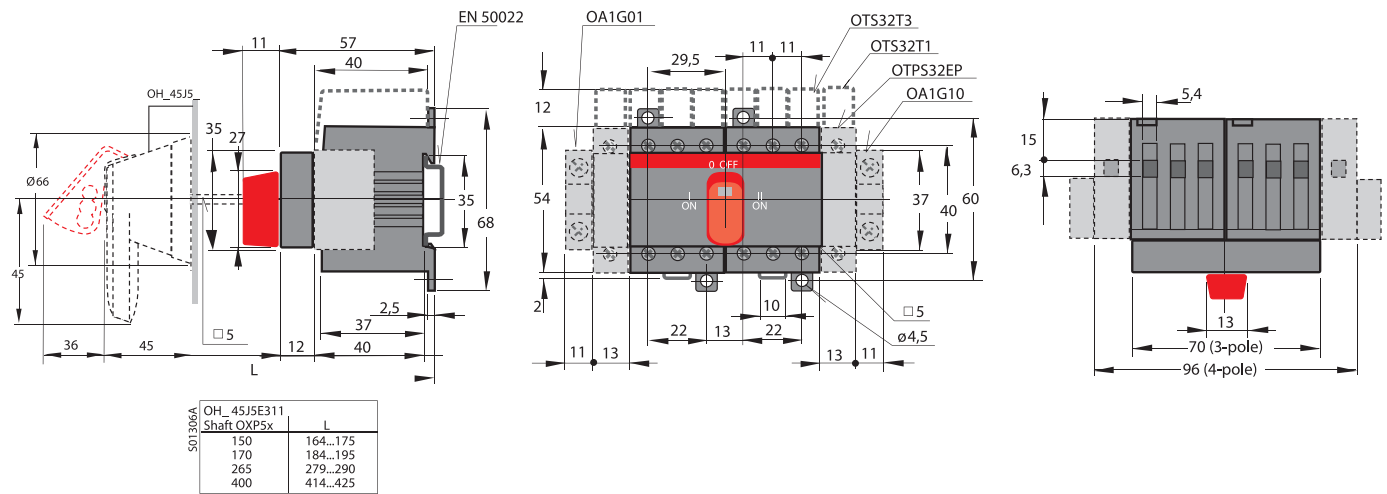
OT45, 63E6 & E8 — 6 Pole switches



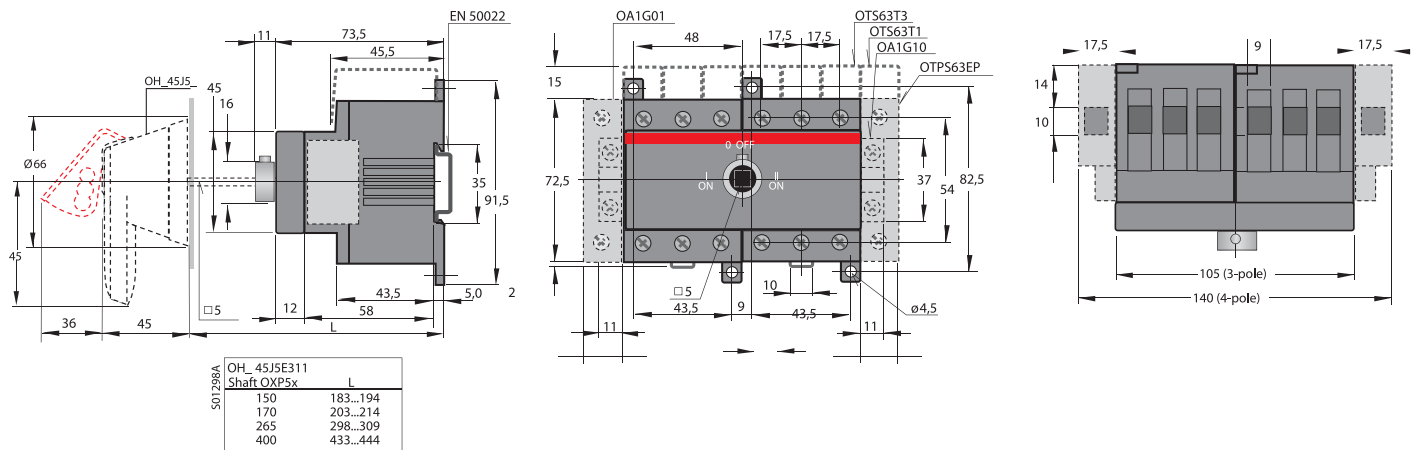
Approximate dimensions OT16E3C & E4C – OT63E3C & E4C Change-over switches



OT16, 25, 32E3C & E4C – Transfer switches



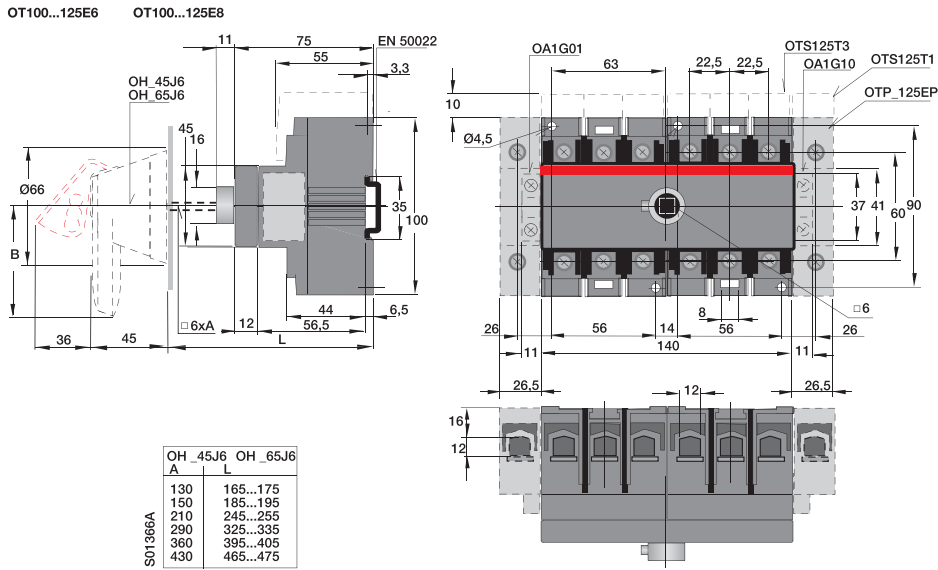
OT45, 63E3C & E4C – Transfer switches



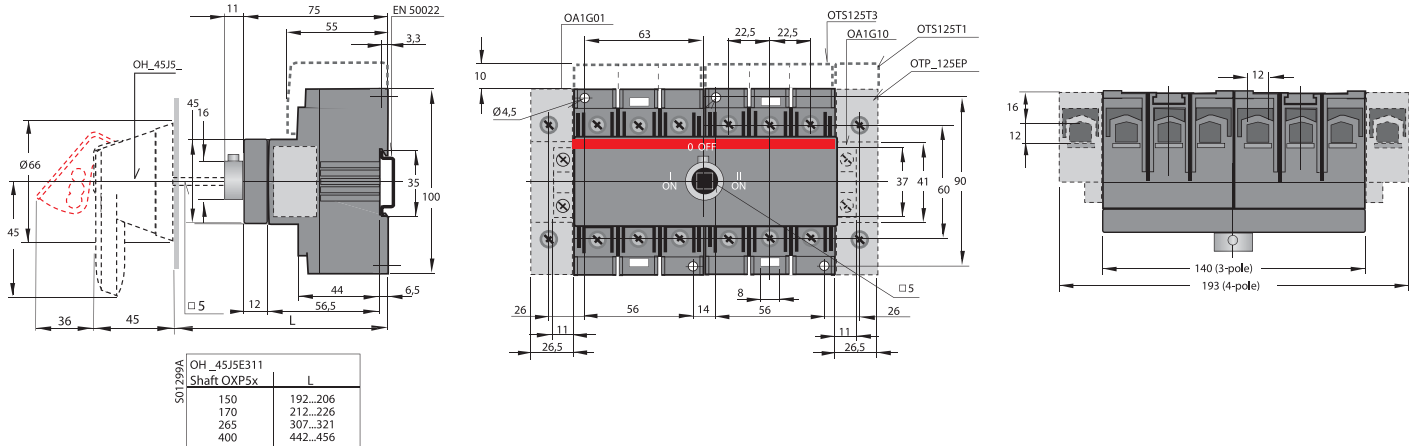


Approximate dimensions OT100E6 & E8 – OT100E3C & E4C

OT100E6 & E8 — 6 Pole switches



OT100E3C & E4C – Transfer switches



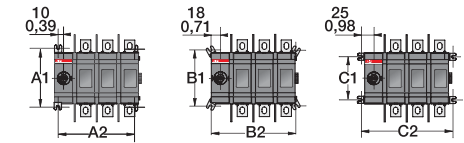
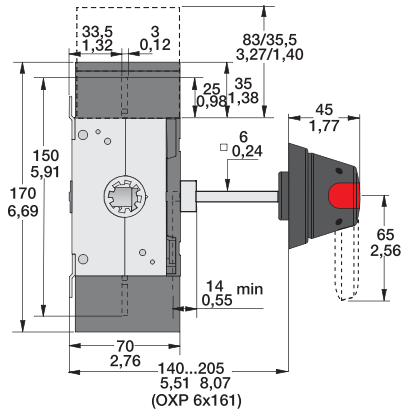
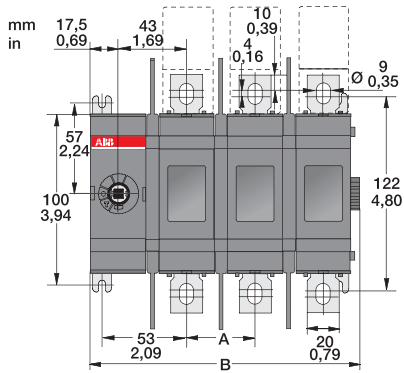
Approximate dimensions

Non-fusible disconnect switches

OT200_ & OT400_



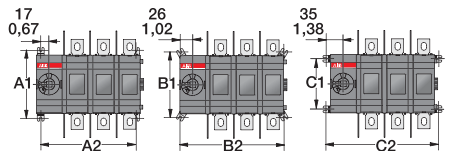
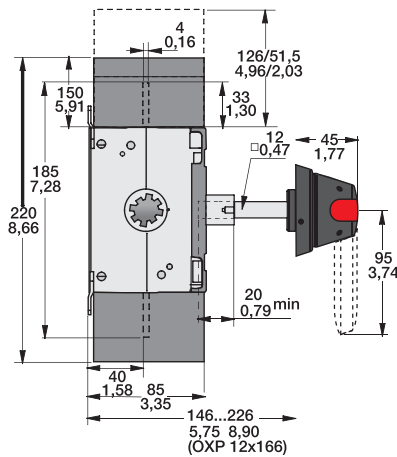
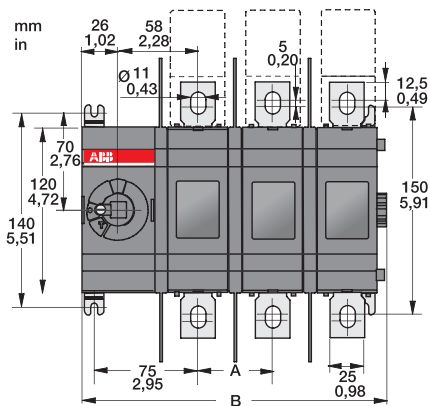
OT200U_P



OT200				
	U01	U02	U03	U04
	mm / in	mm / in	mm / in	mm / in
A	-	43 / 1,69	43 / 1,69	43 / 1,69
B	83,5 / 3,24	126,5 / 4,98	169,5 / 6,67	212,5 / 8,37
A1	114 / 4,49	114 / 4,49	114 / 4,49	114 / 4,49
A2	63 / 2,48	106 / 4,17	149 / 5,87	192 / 7,56
B1	109,5 / 4,31	109,5 / 4,31	109,5 / 4,31	109,5 / 4,31
B2	79 / 3,11	122 / 4,80	165 / 6,50	208 / 8,19
C1	84 / 3,31	84 / 3,31	84 / 3,31	84 / 3,31
C2	93 / 3,66	136 / 5,35	179 / 7,05	222 / 8,74

M00009/OT200U01_04 E

OT400U_P



OT400				
	U01	U02	U03	U04
	mm / in	mm / in	mm / in	mm / in
A	-	54 / 2,13	54 / 2,13	54 / 2,13
B	113 / 4,45	167 / 6,58	221 / 8,70	275 / 10,83
A1	140 / 5,51	140 / 5,51	140 / 5,51	140 / 5,51
A2	88 / 3,47	142 / 5,59	196 / 7,72	250 / 9,84
B1	135 / 5,32	135 / 5,32	135 / 5,32	135 / 5,32
B2	106 / 4,17	160 / 4,17	214 / 8,43	268 / 10,55
C1	104 / 4,09	104 / 4,09	104 / 4,09	104 / 4,09
C2	124 / 4,88	178 / 7,01	232 / 9,13	286 / 11,27

M00019/OT400U01_04 E

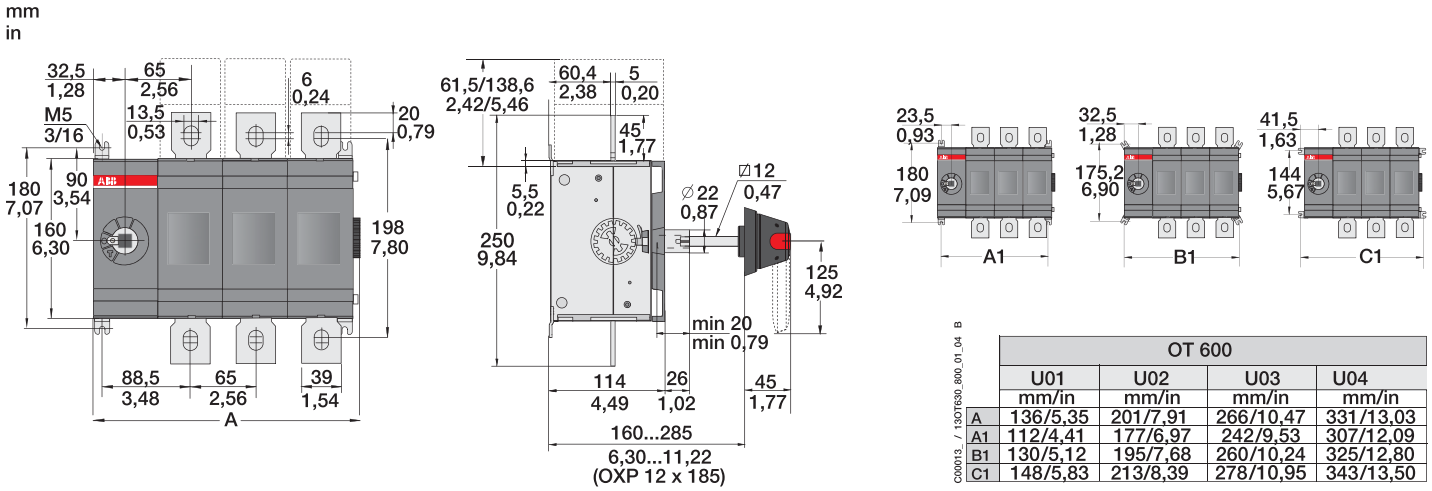


Approximate dimensions

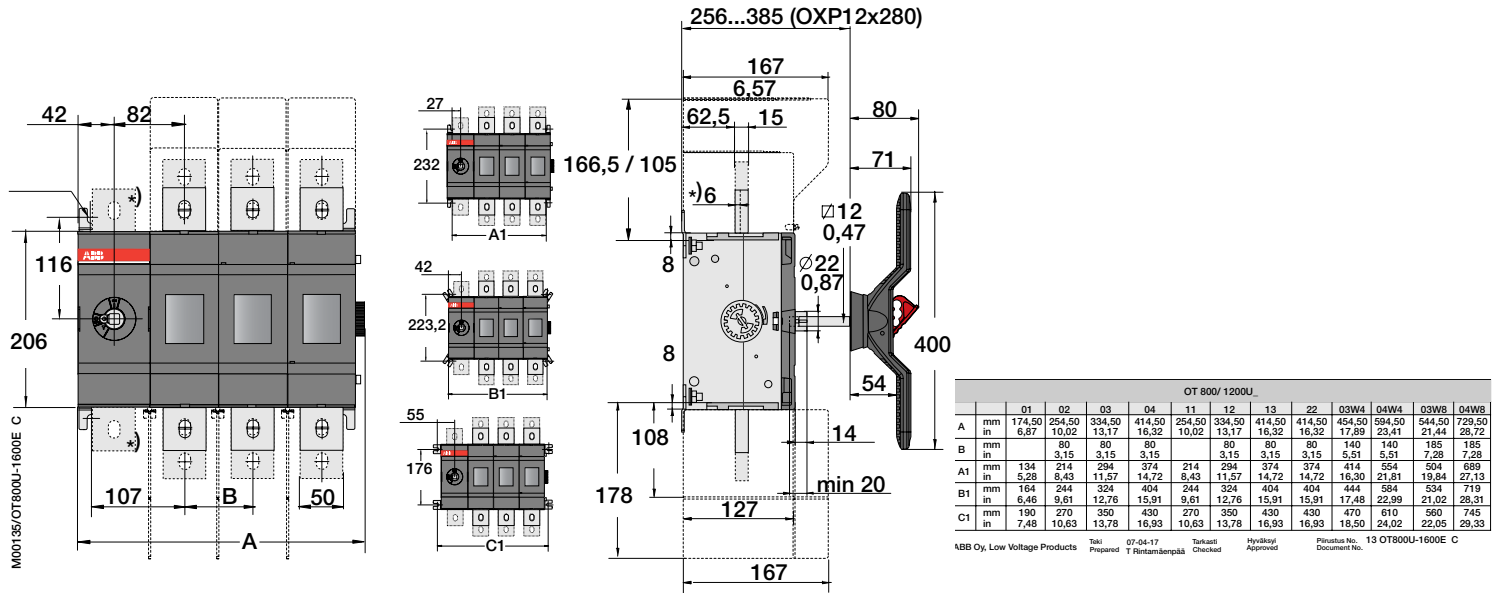
Non-fusible disconnect switches

OT600U_P ... OT1200U_P

OT600U_P



OT800U_P, OT1200U_P



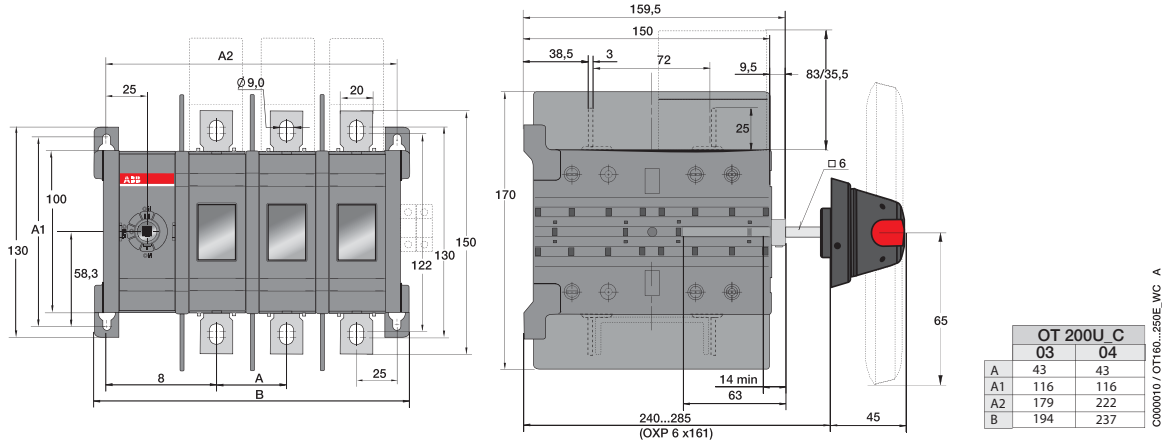
SwitchLine

Change-over switches OT200 - 600

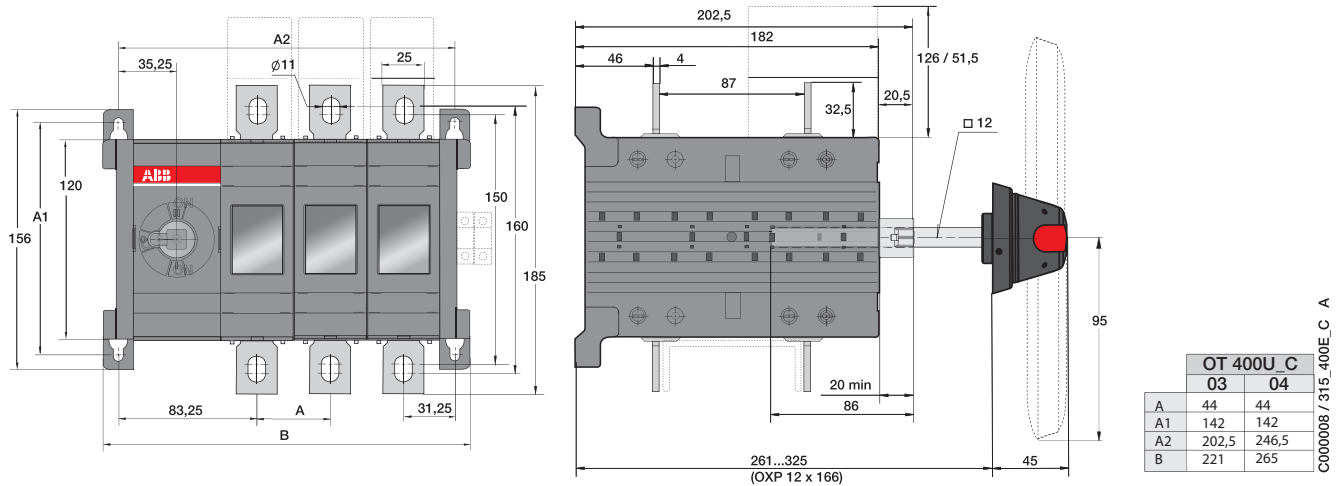
Dimension drawings



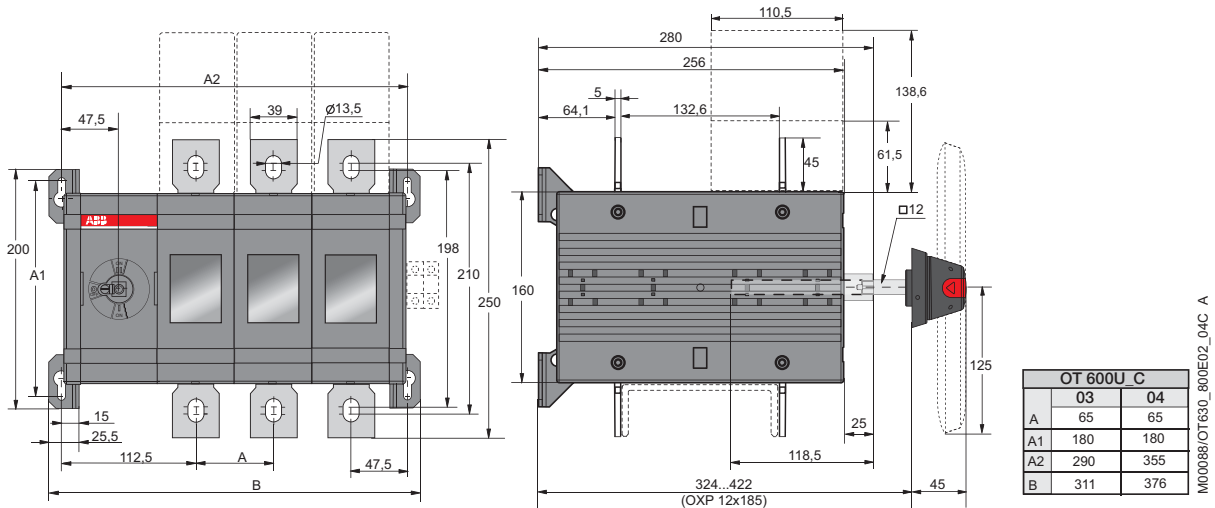
OT200U03/04CP



OT400U03/04CP



OT600U03/04CP



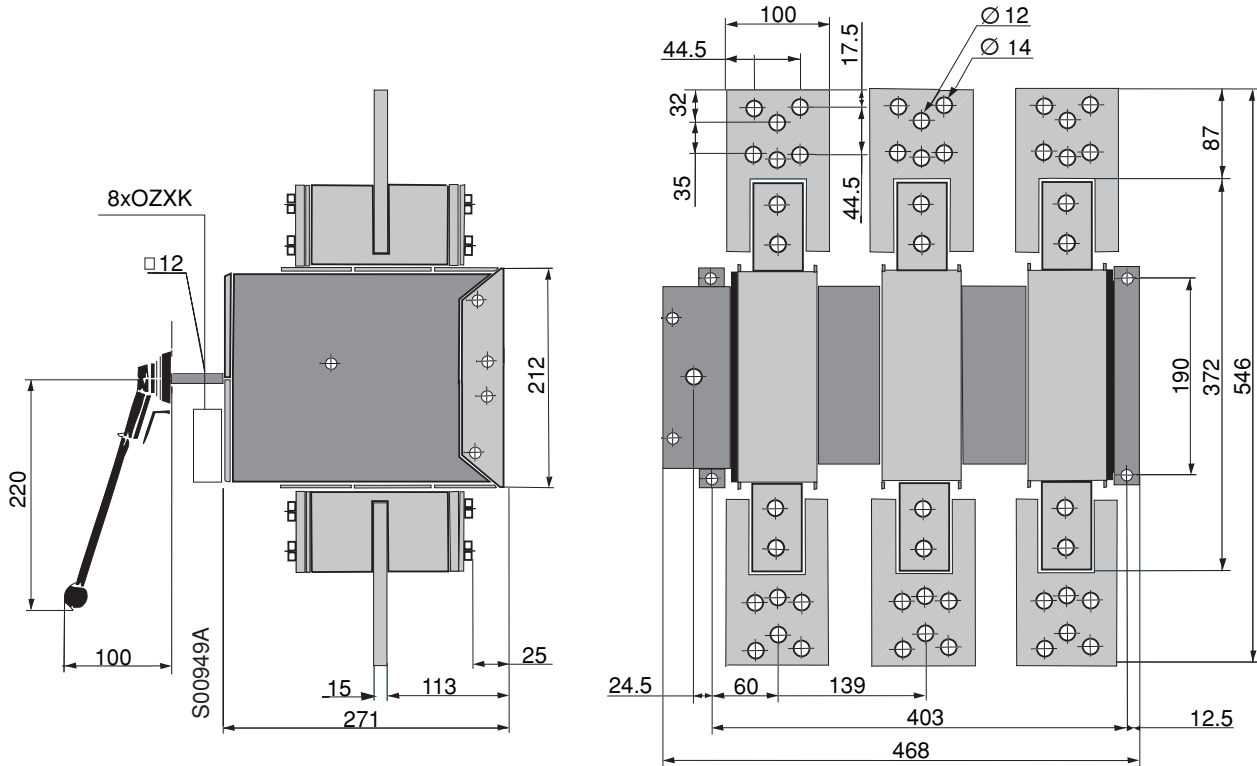


Approximate dimensions

Non-fusible disconnect switches

OETL-NF1600 & OETL-NF2000

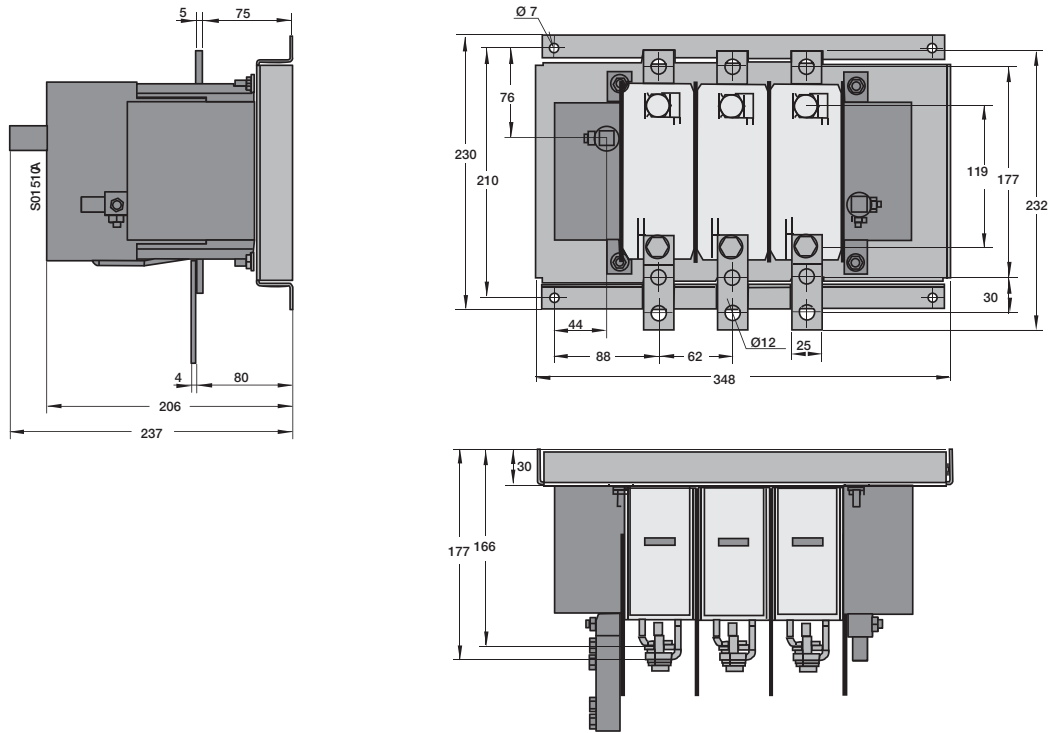
OETL-NF1600P and OETL-NF2000P



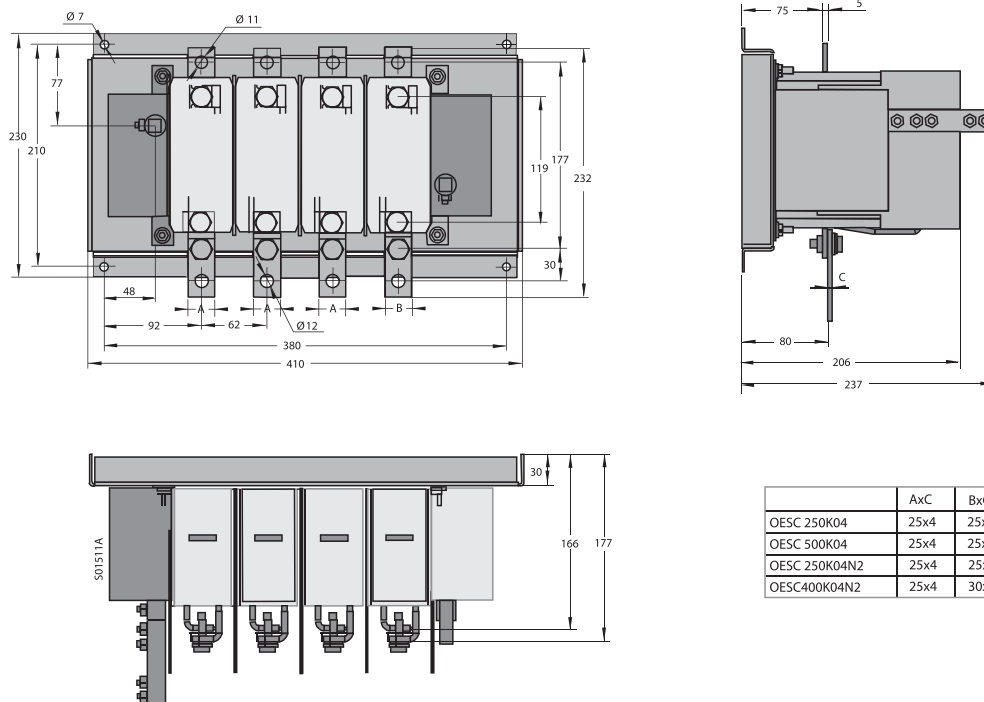
Approximate dimensions OESC250 — OESC500



OESC250 – OESC500 – 3 pole



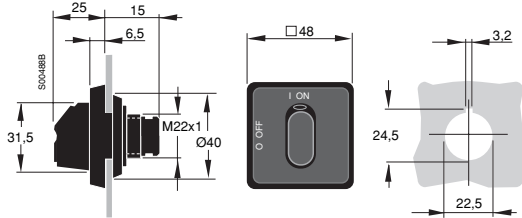
OESC250 – OESC500 – 4 pole



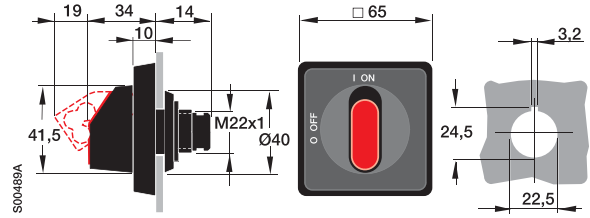
	AxC	BxC
OESC 250K04	25x4	25x4
OESC 500K04	25x4	25x4
OESC 250K04N2	25x4	25x4
OESC400K04N2	25x4	30x8

Selector handles for base and DIN rail mounted switches

OH_3A

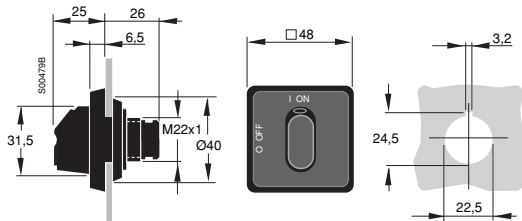


OH_2A_

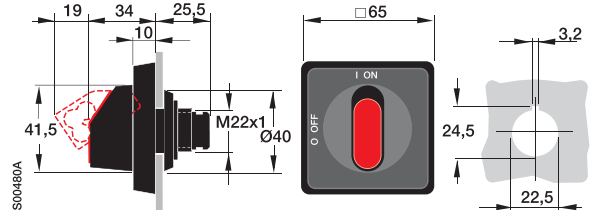


Selector handles for door mounted switches

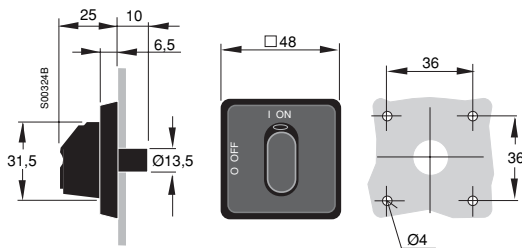
**OH_1P_
OH_3P_**



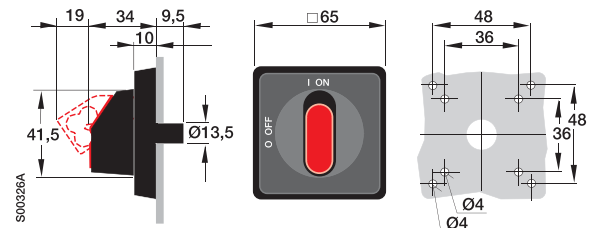
OH_2P_



**OH_1R_
OH_3R_**



OH_2R_



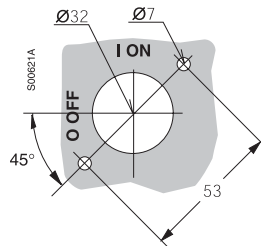
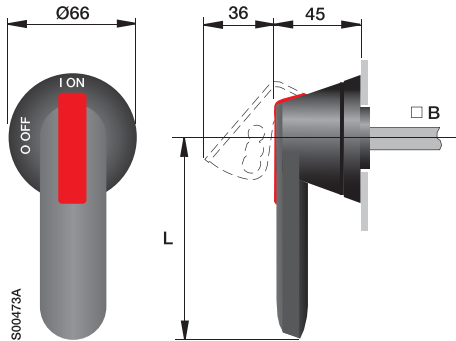
Approximate dimensions Pistol Handles



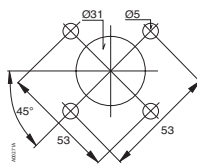
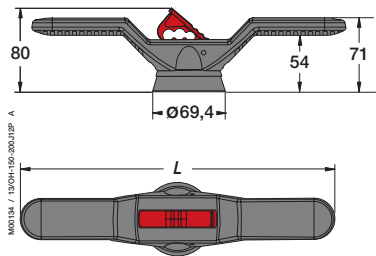
Pistol handles

Plastic

Door drilling for
OH_-handles:

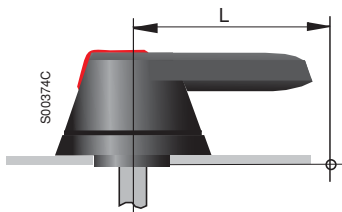


Handle type	Handle length (mm) L	Shaft (mm) B
OH_45J5	45	5
OH_65J5	65	5
OH_45J6	45	6
OH_65J6	65	6
OH_80J6	80	6
OH_125J12	125	12
OH_145J12	145	12
OH_175J12	175	12
OH_275J12	275	12



Type	L
OHB150J12P	300
OHB200J12P	400

Minimum distance L, between the hinge and the rotating shaft

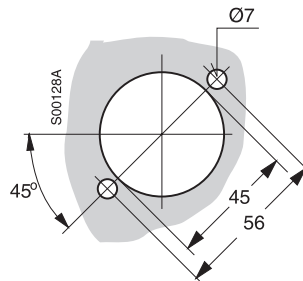
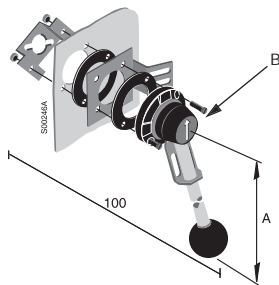


Switch size	Length L (mm)	Handle type
OT16...100	75	OH_2,OH_3
OT16...200	80	OH_65,80J_
OT400...1200	150	OH_145J12
OETL-NF1600..2000	220	YADSDA-7, 8 OH_175J12

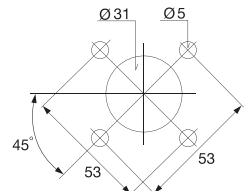
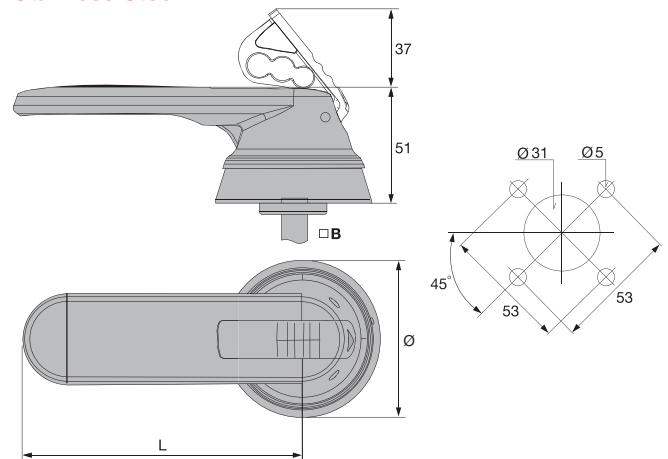
Metallic handles

YASDA-6 (A=320 mm)
YASDA-7, 8, 21 (A=220 mm)
YASDA-24 (A=145 mm)

Door drilling for YASDA_:



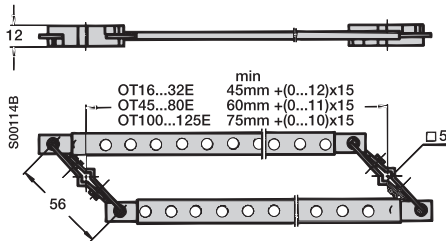
Stainless Steel



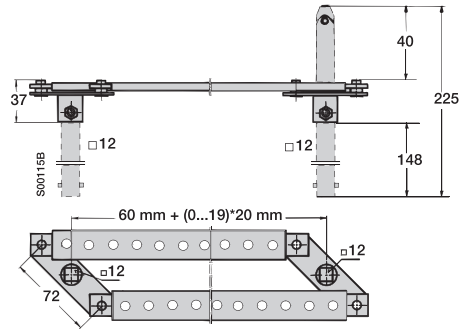
Handle type	OHM45L5	OHM65L5	OHM65L6	OHM125L12	OHM175L12	OHM275L12
L	45	65	65	125	175	275
B	5	5	6	12	12	12

6 or 8 pole switches

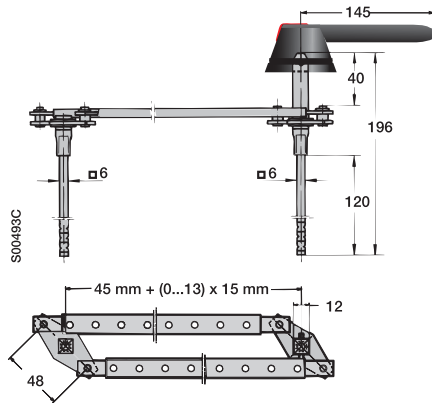
OTZW8



OETL-ZW9

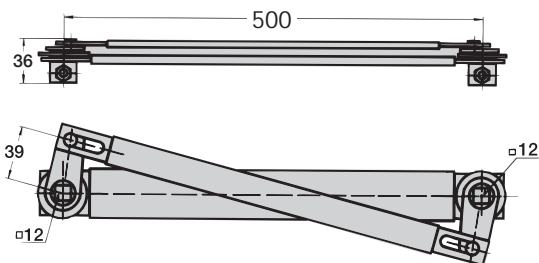


OESA-ZW2

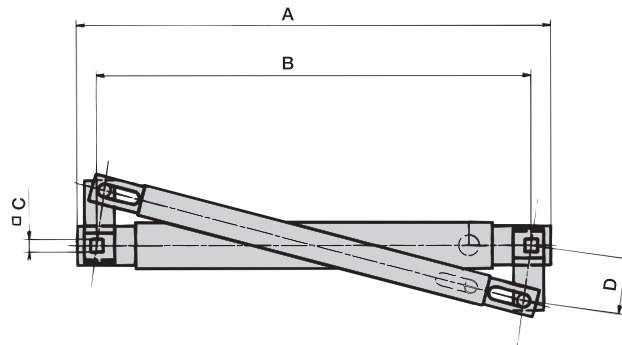


Mechanical interlock

OETL-ZW15



OTZW10
OTZW24



Type	A	B	C	D
OTZW10	206	190	6	30
OTZW24	114	100	5	25

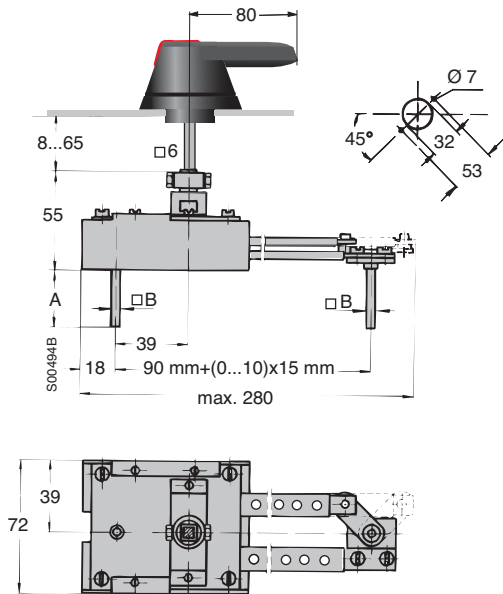
S00119A

Approximate dimensions Conversion mechanisms



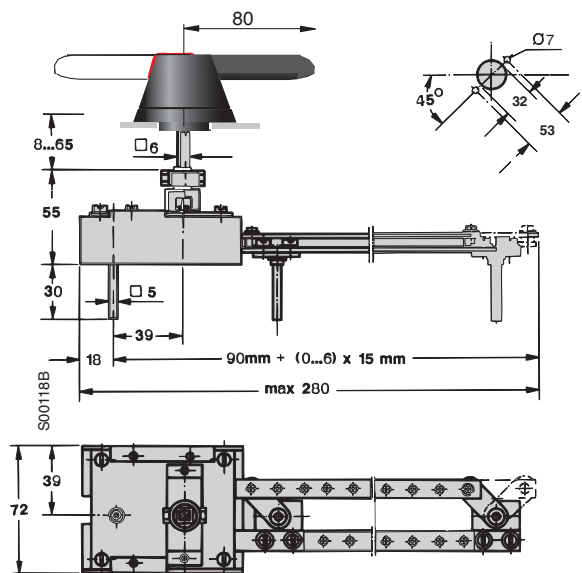
Change-over switches and by-pass switches

OTZW6, OESA-ZW1

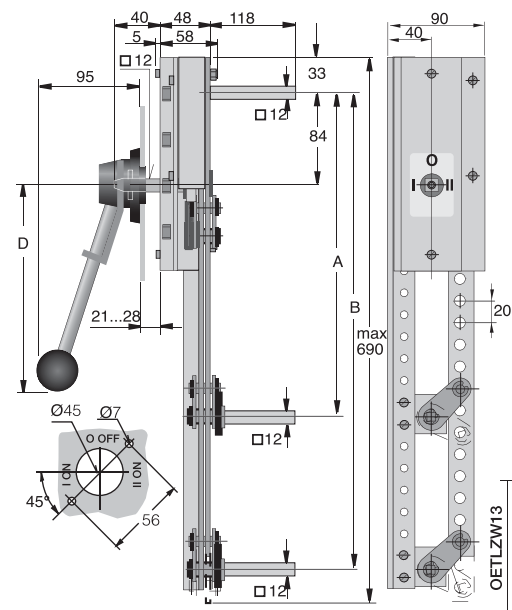


	A	B
OESAZW1	116	6
OTZW6	30	5

OTZW17

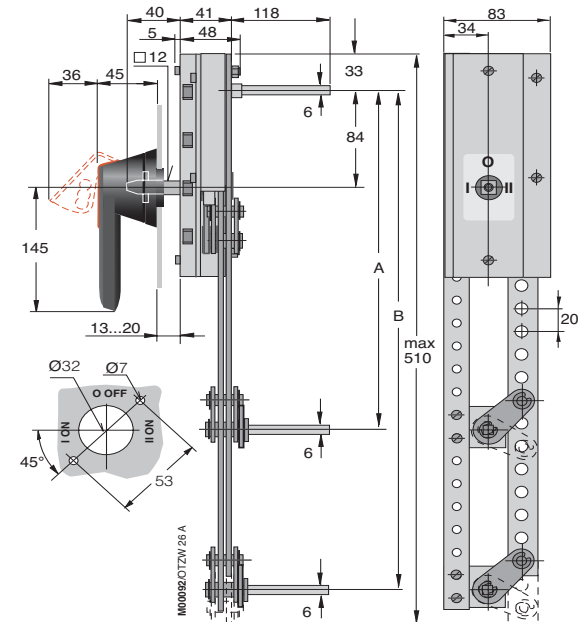


OETL-ZW12, 13



S00117A	A	B	D
OETLZW 12	210+(0...18)x20 mm	250+(0...18)x20 mm	220 mm
OETLZW 13	210+(0...18)x20 mm	250+(0...18)x20 mm	320 mm

OTZW25, OTZW26

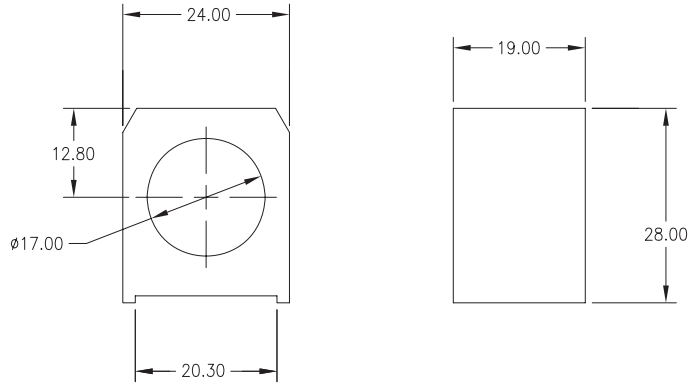


	A	B
OTZW 25	210+(0...18)x20 mm	210+(0...9)x20 mm
OTZW 26	210+(0...9)x20 mm	210+(0...9)x20 mm

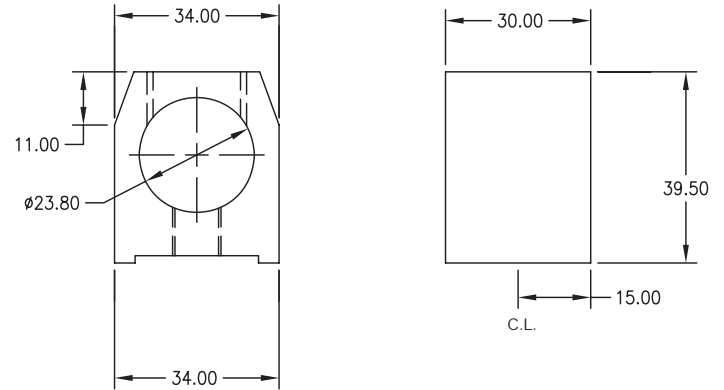


Approximate dimensions Terminal lugs

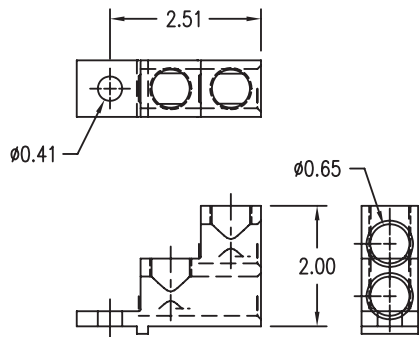
OZXA-200 — for use with 200A switches



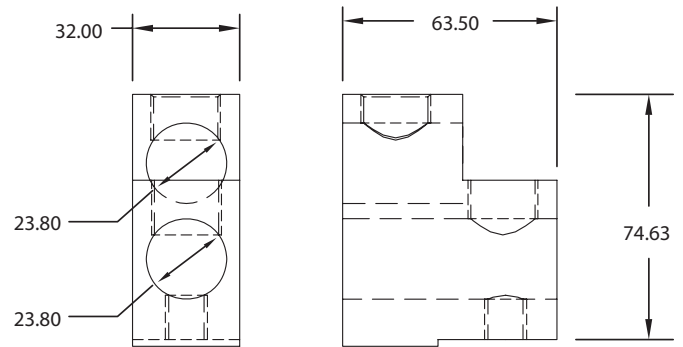
OZXA-400 — for use with 400A switches



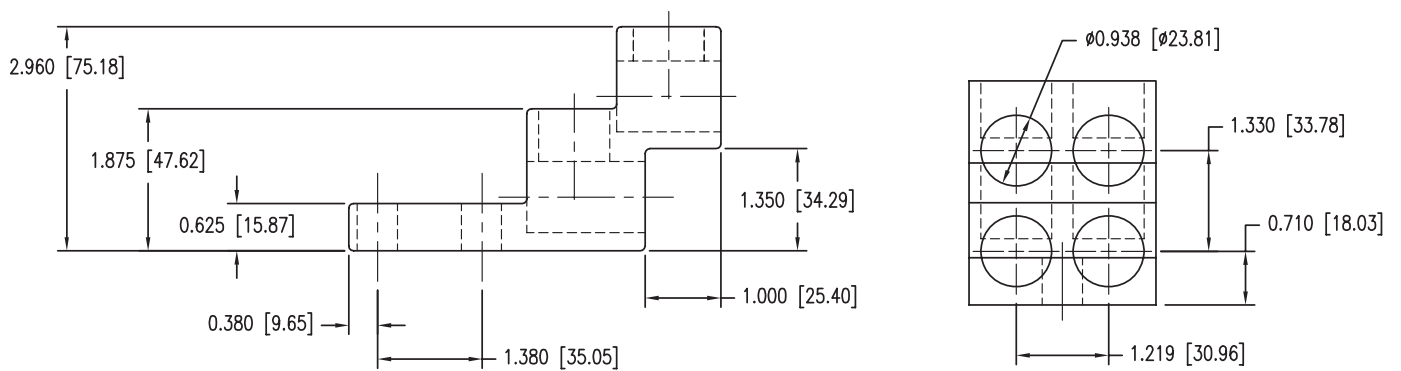
OZXA-402 — for use with 400A switches



OZXA-800 — for use with 600A switches



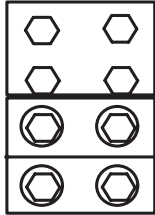
OZXA-1200 — for use with 800A and 1200A switches



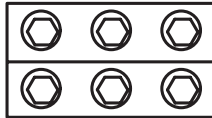
Approximate dimensions Terminal lugs



DSK8TL and DSK8TM —for use with 1600A-2000A switches



"L"



"M"

(2500A LUGS SHOWN ON BREAKER)

FIGURE	LUG KIT CAT. NO.	LUG NO.	TEMP.	WIRE RANGE	WIRE TORQUE	MOUNTING TORQUE	WIRE SCREW SIZE
L	DSK8TL	D1922	90° C	1/0 - 750 kcmil (4)	500 lb-in	500 lb-in	1/2
M	DSK8TM	D3185, D3186, D3187	90° C	1/0 - 750 kcmil (6)	500 lb-in	500 lb-in	1/2

NOTE: Lugs are interchangeable and may be ordered as required by the installed wire gauge.

PowerLine Fusible Disconnect switches



PowerLine
Fusible disconnect switches
Compact, heavy duty
30A – 800A, 600V

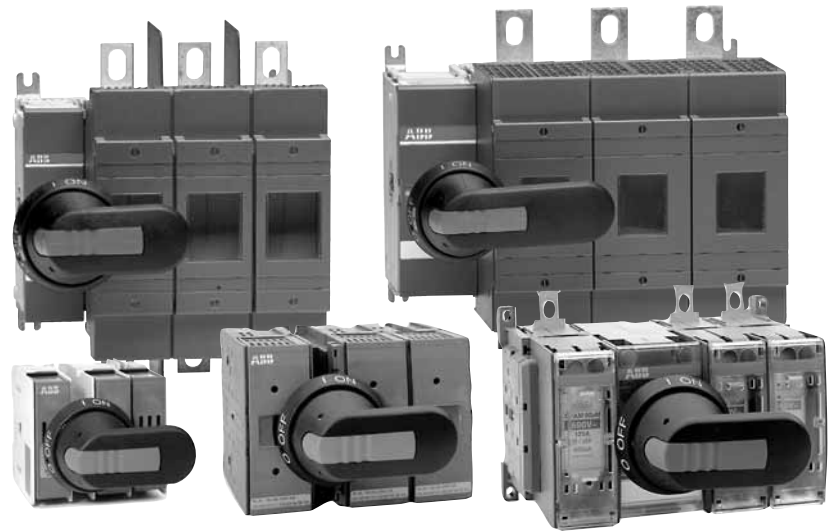


ABB PowerLine includes seven different amperage sizes from 30A to 800A. All PowerLine fusible switches are designed to meet customer requirements in terms of high interrupting capacity and long electrical life while occupying little more panel space than the appropriate fuses. The basic construction provides flexibility and high performance in an extremely compact size. ABB PowerLine switches are a perfect choice to withstand the heat and humidity of the tropics, the extreme cold of the arctic and any rugged industrial environment you may have.

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Fusible disconnect switches for North America and the world: CSA fuse class J,CC,L	
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30A	2.8
60A – 200A	2.10
400A – 800A	2.14
Technical information	2.25
Technical ratings	
Selecting switches	
Auxiliary contact timing diagrams	
Approximate dimensions	



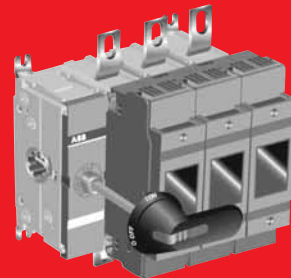
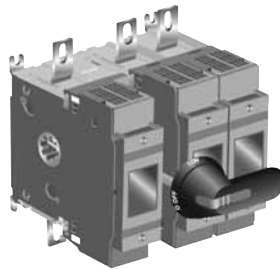
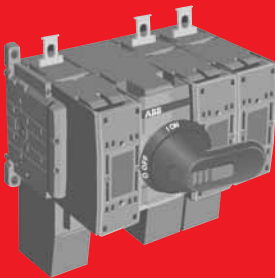
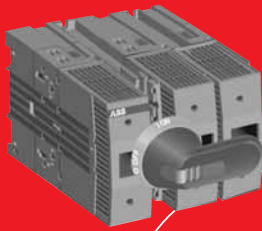
Complete range of fusible disconnect switches

From 30 to 800 A, 600 V

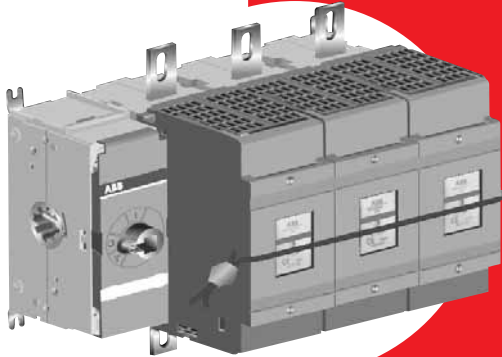
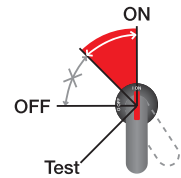
Features within the range of ABB fusible disconnect switches include single pole to four pole versions.

- The fusible disconnect switches mechanism located in any position together with the direction of the terminals, increasing the ease of installation and adaptability to different types of cubicle designs.
- A wide selection of accessories improve the usability of the switch fuses; 6 and 8- pole, changeover, by-pass and mechanically interlocked switch combinations can be built up by means of conversion kits.

The fusible disconnect switches are available for all types of fuse links, DIN, BS, NFC, UL, CSA.



Designed for safety

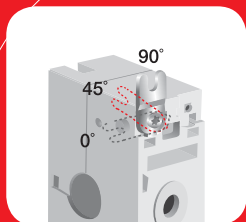


The OS and OESA fusible disconnect switch ensures safe operation, protecting both people and equipment.

Designed and based on substantial experience of electrical safety, the fusible disconnect switch eliminates the risk of electrical accidents:

- The fuse covers cannot be opened while the fusible disconnect switch is in the ON-position and can be sealed in the closed position.
- The double insulated external operating handle eliminates the risk of touching live parts outside the box.
- The handle indicates the position of the contacts with complete reliability in all situations.

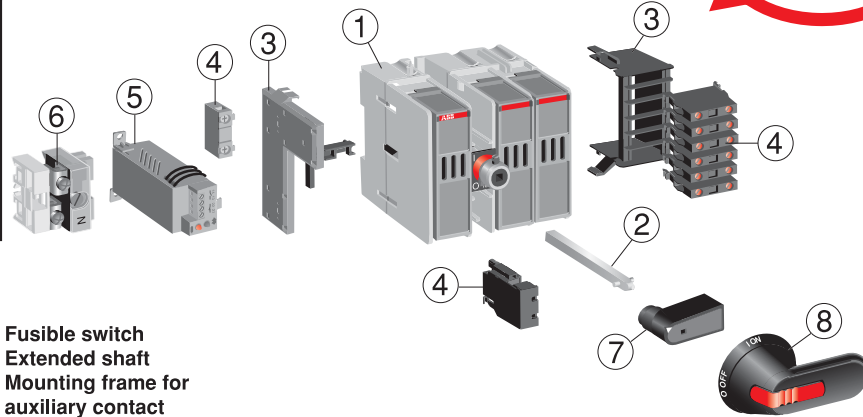
Easy, flexible installation



The OS 200...400 fusible disconnect switch is easy to use and a snap to install according to your choice: the adjustable mounting feet allow both top and side mounting of the fusible disconnect switch.

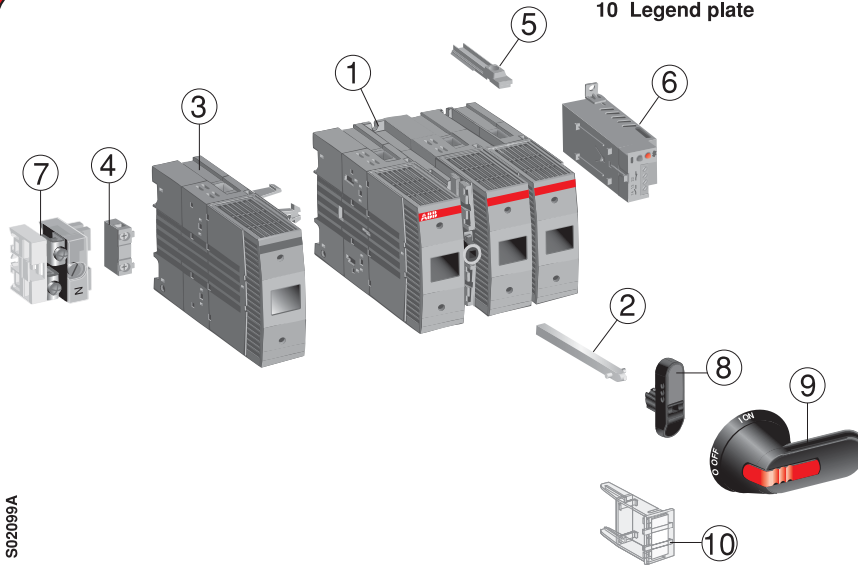
The OS fusible disconnect switch offers you flexible cabling options. The high terminal positioning with space to the back plate simplifies the mounting of cables. It's also ideal for double cabling, which in turn saves on space.

OS30



- 1 Fusible switch
- 2 Extended shaft
- 3 Mounting frame for auxiliary contact
- 4 Auxiliary contact
- 5 Fuse monitor
- 6 Neutral link
- 7 Handle knob
- 8 Pistol type handle

OS60



- 1 Fusible switch
- 2 Extended shaft
- 3 Fourth pole
- 4 Auxiliary contact
- 5 Terminal shroud
- 6 Fuse monitor
- 7 Neutral link
- 8 Handle knob
- 9 Pistol type handle
- 10 Legend plate

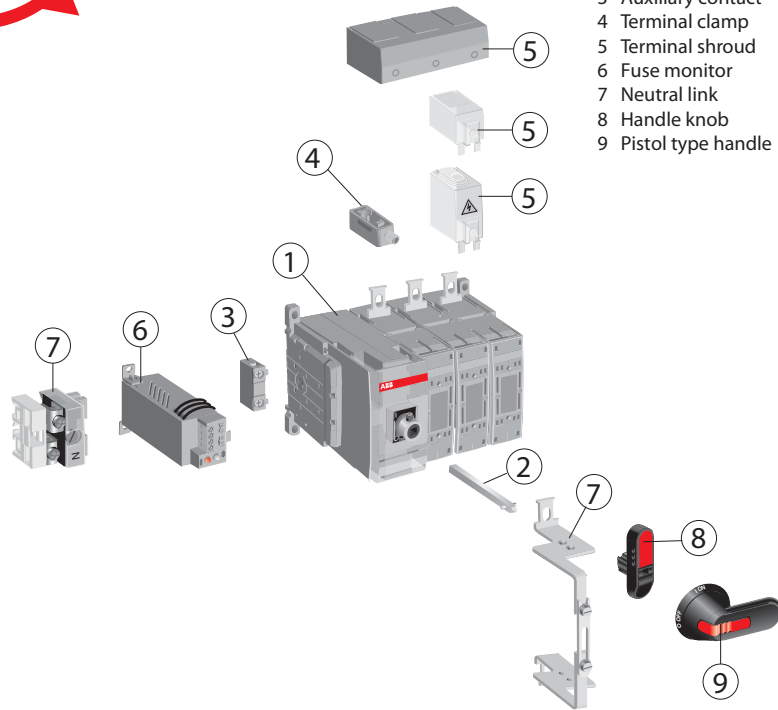
S02099A

Fusible disconnect switches OS 100...800

Accessories, selection overview



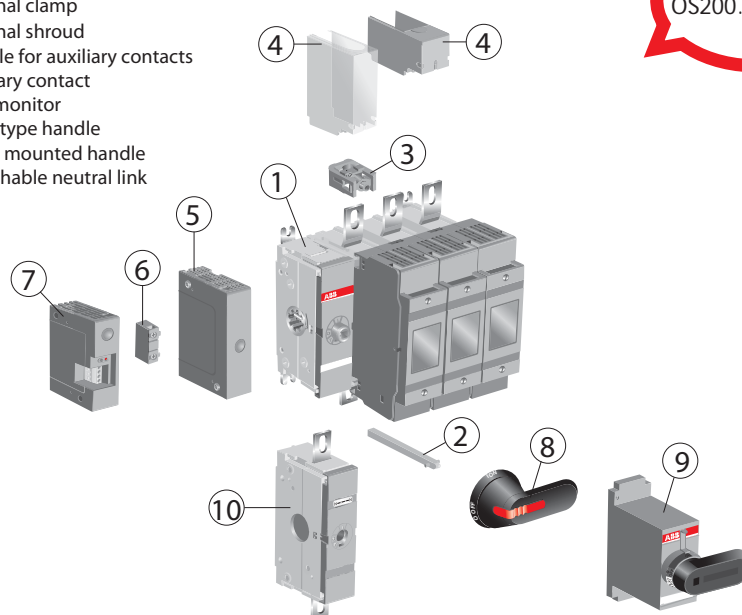
OS100



- 1 Fusible switch
- 2 Extended shaft
- 3 Auxiliary contact
- 4 Terminal clamp
- 5 Terminal shroud
- 6 Fuse monitor
- 7 Neutral link
- 8 Handle knob
- 9 Pistol type handle

- 1 Fusible switch
- 2 Extended shaft
- 3 Terminal clamp
- 4 Terminal shroud
- 5 Module for auxiliary contacts
- 6 Auxiliary contact
- 7 Fuse monitor
- 8 Pistol type handle
- 9 Direct mounted handle
- 10 Detachable neutral link

OS200...OS800



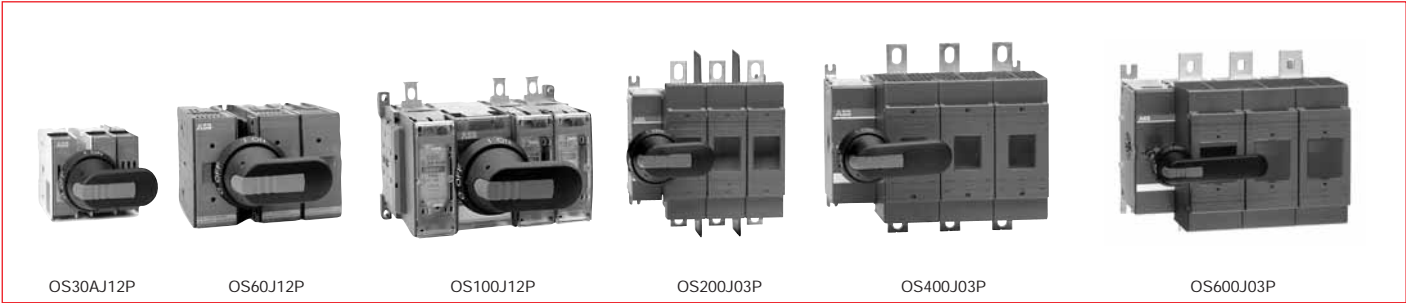
502100A



Overview

Fusible disconnect switches

OS30A – OS800L03



Catalog number	3 pole	OS30AJ12	OS60J12	OS100J12	OS200J03	OS400J03	OS600J03	OS800L03
General purpose amp rating	A	30	60	100	200	400	600	800
Catalog reference	Page #	2.9	2.10	2.10	2.14	2.14	2.14	2.14
Approvals^①	2 pole 3 pole 4 pole	N/A CSA C22.2 No.4 CSA C22.2 No.4	N/A CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4
Technical ratings (CSA,UL)								
Max operating voltage	V	600	600	600	600	600	600	600
Max horsepower rating								
Three phase								
208V	HP	7.5	15	25	50	100	150	200
240V	HP	7.5	15	30	60	125	200	250
480V	HP	15	30	60	125	250	400	500
600V	HP	20	50	75	150	350	500	500
Single phase								
120V	HP	2	—	—	—	—	—	—
240V	HP	3	—	—	—	—	—	—
CSA fuse class		J/CC	J	J/T	J/T	J/T	J/T	L
Technical ratings (IEC)								
Rated insulation and operational voltage. AC20 and DC20 ^②		1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I _{th}								
AC 20/DC 20 open	A	32	63	160	200	400	630	800
AC 20/DC 20 enclosed	A	32	63	160	200	400	600	720
AC 21A ≤500V	A	32	63	160	200	400	630	800
AC 21A ≤690V	A	32	63	160	200	400	630	800
Rated operational power AC23								
400/415V	kW	15	30	75	110	220/230	355	400
690V	kW	22	55	132	200	400	560	710
Weight	3 pole switch KG 4 pole KG	0.7 0.9	1.3 1.6	1.5 1.8	2.6 3.2	5.7 6.9	15.5 19.0	17.0 21.0
Dimension	3 pole H mm W mm D mm	97 106 107	100 145 128	143 223 131	200 262 199	200 285 206	290 373 234	290 373 234
Accessories								
Double break contacts		S	S	S	S	S	S	S
Fuse cover		S	S	S	S	S	S	S
Terminal lug kit		Integral	Integral	OZXA-24	OZXA-200	OZXA-400	OZXA-800	OZXA-800
Terminal shroud		Not required	Not required	•	•	•	•	•
Auxiliary contact		•	•	•	•	•	•	•
Handle CSA/NEMA type								
Type 1, 3R, 12		•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•
Conversion kit								
6 pole		•	•	•	•	•	•	•
Transfer		•	•	•	•	•	•	•
Bypass		—	—	—	•	•	•	•
Mechanical interlock		•	•	•	•	•	•	•
Electrical interlock		—	—	—	•	•	•	•

CSA approved, UL listed, IEC rated, CE marked

S = Standard
• = Available
— = Not available

① CSA approved switches are also UL listed.

② 1000V IEC 408

30A – 800A Fusible disconnect switches

CSA fuse class J, CC, L

3 pole^①



Each kit includes:
 1 three pole switch
 1 handle
 1 shaft



Kit

handle
 shaft
 switch
 terminal lug kit^②

Complete Switches (including handle and shaft).

CSA general purpose amp rating	CSA Fuse type 600V	Maximum horsepower rating					Complete Switches catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
30	J	5	7.5	7.5	15	20	OS30AJ12P	
30	CC	5	7.5	7.5	15	20	OS30ACC12P	
60	J	15	15	15	30	50	OS60J12P	
100	J	25	25	30	60	75	OS100J12P ^③	
200	J	50	50	60	125	150	OS200J03P ^③	
400	J	100	125	125	250	350	OS400J03P ^③	
600	J	150	150	200	400	500	OS600J03P ^③	
800	L	200	200	250	500	600	OS800L03P	

Components for complete switches

Kit catalog number	Switch Catalog number	Handle ^③				Shaft			Terminal lugs ^④		
		NEMA type	Marking	De-feat-able	Handle catalog number	Mounting depth ^④ (mm)	Length (mm)	Shaft catalog number	Wire size	Wire type	Catalog number
OS30AJ12P	OS30AJ12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J5	135 - 210	150	OSP5X150	#18 - #8	Cu	Integral
OS30CC12P	OS30CC12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J5	135 - 210	150	OSP5X150	#18 - #8	Cu	Integral
OS60J12P	OS60J12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J6	141 - 260	150	OSP6X161	#14 - #4	Cu	Integral
OS100J12P	OS100J12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J6	141 - 260	150	OSP6X161	#14 - 2/0	Cu/Al	OZXA-24
OS200J03P	OS200J03	1, 3R, 12	I/O, OFF/ON	Yes	OHB80J6	200 - 310	290	OSP6X210	#4 - 300kcmil	Cu/Al	OZXA-200
OS400J03P	OS400J03	1, 3R, 12	I/O, OFF/ON	Yes	OHB145J12	200 - 310	280	OSP12X280	#2 - 600kcmil	Cu/Al	OZXA-400
OS600J03P	OS600J03	1, 3R, 12	I/O, OFF/ON	Yes	OHB145J12	285 - 355	280	OSP12X280	(2) #2 - 600kcmil	Cu/Al	OZXA-800
OS800L03P	OS800L03	1, 3R, 12	I/O, OFF/ON	Yes	OHB145J12	285 - 355	280	OSP12X280	(2) #2 - 600kcmil	Cu/Al	OZXA-800

If other handles or shafts are desired, please order from the individual component pages 2.8 – 2.14.

① Other pole configurations available. Please see the individual component pages.
 ② Terminal lug kit for OS100...OS800 are sold separately, see accessories page 2.10 and 2.14.
 ③ All handles are black and accept three padlocks. For others, please see the individual component pages.
 ④ Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.



30A fusible disconnect switches

CSA fuse class J, CC

Handles & shafts

For a complete assembly, please select one of each:

- 1 switch
- 1 handle
- 1 shaft



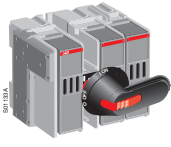
OS30AJ12



OXP5X150



OHB65J5



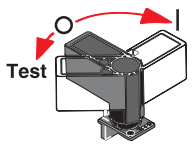
OS30AJ12P



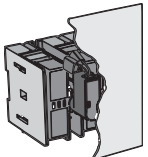
OHB65J5



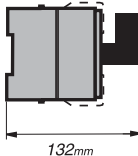
OXP5X265



OHB5

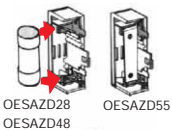


OHB5 Mounted



132mm

OHB5 Mounted depth



OESAZD28
OESAZD48



CYBY67121

30 Amp switches, 600V

CSA general purpose amp rating	CSA Fuse type 600V	Maximum horsepower rating					Terminal Lugs		Catalog number	List price
		Three phase					Wire size	Wire type		
		200V	208V	240V	480V	600V				
3 pole										
30	J	5	7.5	7.5	15	20	#18 - #8	Cu	OS30AJ12	
30	CC	5	7.5	7.5	15	20	#18 - #8	Cu	OS30ACC12	
4 pole										
30	J	5	7.5	7.5	15	20	#18 - #8	Cu	OS30AJ22F	
30	CC	5	7.5	7.5	15	20	#18 - #8	Cu	OS30ACC22F	

Pistol handles — for use with shafts (□ 5 x 5 mm) ①

NEMA type	IEC type	Color	Marking	Length inches/mm	Defeat-able	Padlock-able	Catalog number	List price
1,3R,12	IP65	Blk	O/I & Off/On	65	Yes	Yes	OHB65J5	
1,3R,12	IP65	R/Y	O/I & Off/On	65	Yes	Yes	OHY65J5	
1,3R,12	IP65	Grey	O/I & Off/On	65	Yes	Yes	OHG65J5	
1,3R,12,4,4X	IP66	Blk	O/I & Off/On	65	Yes	Yes	OHB65L5	
1,3R,12,4,4X	IP66	R/Y	O/I & Off/On	65	Yes	Yes	OHY65L5	
1,3R,12,4,4X	IP66	SS	O/I & Off/On	65	Yes	Yes	OHM65L5	

Shafts — for use with pistol handles (□ 5 x 5 mm)

Shaft length (mm)	Mounting depth (in mm)	Catalog number	List price
150	125 - 225	OXP5X150	
170	150 - 245	OXP5X170	
265	240 - 340	OXP5X265	
400	380 - 475	OXP5X400	
500	520 - 575	OXP5X500	

Direct mount handle — mounts directly to switch, no shaft necessary

NEMA type	Color	Marking	Length mm	Padlockable	Catalog number	List price
1	Blk	O/I/Test	50	Yes	OHB5②	

Fuse carriers - (replacement part)

Description	For use on :	Catalog number	List price
CC fuse carrier	OS30ACC_	OESAZD48	
J fuse carrier	OS30AJ_	OESAZD28	
Solid link carrier	OS30_	OESAZD55	

Terminal cover - (replacement part)

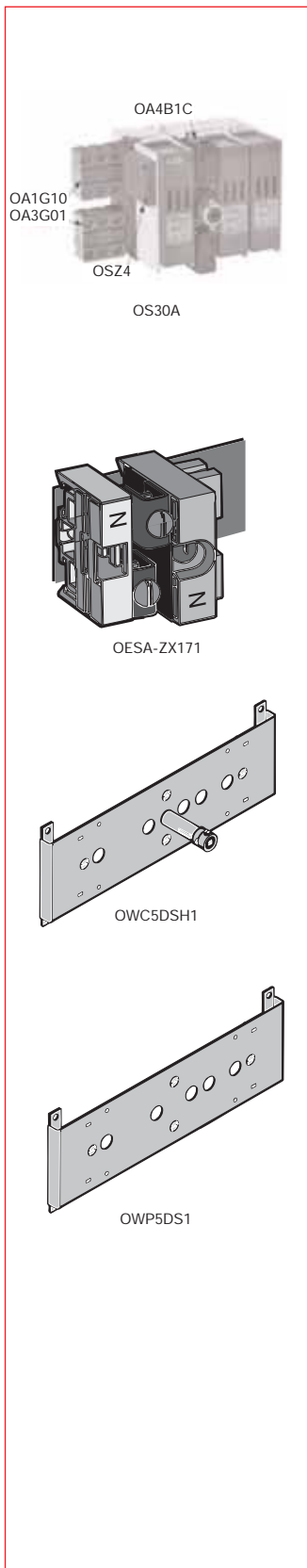
Description	For use on :	Catalog number	List price
Covers terminal below fuse carrier	OS30A_	CXBY67121	

① Plastic pistol grip handle with stainless steel hasp, add suffix EH ex.: OHB65J5EH

② Indication I-O/ON-OFF/TEST: Handle padlockable with 2 padlocks in the O- and Test-positions when the door is open.

Accessories

30A fusible disconnect switches



Auxiliary contacts

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Form C 1 N.O. & 1 N.C. (2 maximum)	OS30A_ for direct mounting to switch ^①	6	250	OA4B1C	
1 N.O. 1 N.C. (6 maximum)	OS30A_ OSZ4 mounting base required ^②	10	600	OA1G10 OA3G01	
Mounting base (on the left side)	OA1G10 & OA3G01			OSZ4	

① Mounting to the switch mechanism, auxiliary/test contacts. Max. two change over contacts.

② Max. 6 auxiliary contacts mountable onto the left side with the mounting frame OSZ4. Early-break type. All NO contacts are provided with a positive opening feature.

Terminal pole

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OS30A_	30	600	OESA-ZX171	

Conversion mechanisms

• Switches are not included

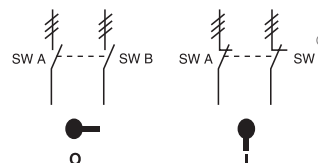
Description	For use on:	Catalog number	List price
6 pole	OS30A_	OWP5DS1	
8 pole		OWP5DS2	
Transfer 3 pole		OWC5DSH1	
Transfer 4 pole		OWC5DSH2	
Mechanical interlock 3 pole		OWM5DS1	
Mechanical interlock 4 pole		OWM5DS2	

6 or 8 pole — OWP5DS1, OWP5DS2

6 (8) pole mechanism allows two switches, controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle
- One 5 mm shaft



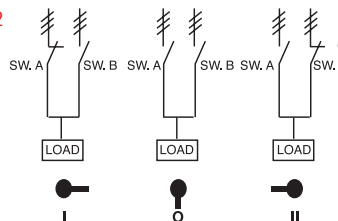
	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Transfer — OWC5DSH1, OWC5DSH2

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position OHB65J5E011 handle is included

- Equipment required for a complete installation:
- One conversion mechanism
 - Two disconnect switches
 - One 5 mm shaft



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

Mechanical interlock — OWM5DS1, OWM5DS2

Mechanical interlock mechanism prevents both switches from being in the "ON" position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two handles
- Two 5 mm shafts



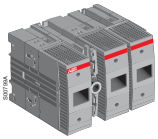
	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

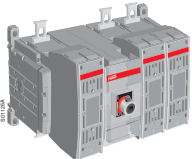
① = Three poles



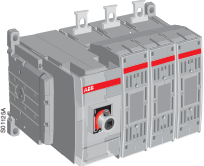
60A – 200A Fusible disconnect switches CSA fuse class J; 60 & 200A



OS60J12P



OS100J12P



OS100J03P



OHB65J6



OHB4



OSV_



OXP6X360



OZXA-24

60 – 200 Amp switches, 600V

CSA general purpose amp rating	CSA Fuse type 600V	Maximum horsepower rating Three phase					Catalog number	List price
		200V	208V	240V	480V	600V		
2 pole								
100	J	—	—	—	—	—	OS100J02	
200	J	—	—	—	—	—	OS200J02	
3 pole								
60	J	15	15	15	30	50	OS60J12	
100	J	25	25	30	60	75	OS100J03	
100	J	25	25	30	60	75	OS100J12	
200	J	50	50	60	125	150	OS200J03	
200	J	50	50	60	125	150	OS200J12	
200	J	50	50	60	125	150	OS200J30	
4 pole								
60	J	15	15	15	30	50	OS60J22F	
100	J	25	25	30	60	75	OS100J22F	
200	J	50	50	60	125	150	OS200J04	

Pistol handles — (□ 6 x 6mm) ①

NEMA type	IEC type	Color	Length inches/mm	Marking	Defeat-able	Padlock-able	Catalog number	List price
1,3R,12	IP65	Blk	65	O/I & OFF/ON	Yes	Yes	OHB65J6	
1,3R,12	IP65	R/Y	65	O/I & OFF/ON	Yes	Yes	OHY65J6	
1,3R,12	IP65	R/Y	65	O/I & OFF/ON	Yes	Yes	OHG65J6	
1,3R,12	IP65	Blk	80	O/I & OFF/ON	Yes	Yes	OHB80J6	
1,3R,12	IP65	R/Y	80	O/I & OFF/ON	Yes	Yes	OHY80J6	
1,3R,4,4X,12	IP66	Blk	80	O/I & OFF/ON	Yes	Yes	OHB80L6	
1,3R,4,4X,12	IP66	R/Y	80	O/I & OFF/ON	Yes	Yes	OHY80L6	
1,3R,4,4X,12	IP66	SS	65	O/I & OFF/ON	Yes	Yes	OHM65L6	

Direct mounted handle

For use on:	Color	Marking	Length mm	Padlock-able	Catalog number	List price
OS60-OS100	Black	O/I	50	Yes	OHB4 [®]	
OS200	Black	O/I	50	Yes	OSV200BK [®]	

Shafts — (□ 6 x 6mm)

Shaft length (mm)	Mounting depth (mm)	Catalog number	List price
150	131 – 249	OSP6X150	
210	180 – 309	OSP6X210	
290	270 – 389	OSP6X290	
360	340 – 459	OSP6X360	
430	410 – 529	OSP6X430	

Shafts alignment ring — for use on :

Description	For use on:	Catalog number	List price
Pistol Handles	OH_45, 65, 80, 125, 145, 175, J, L	OHZX10	

Terminal lug kit

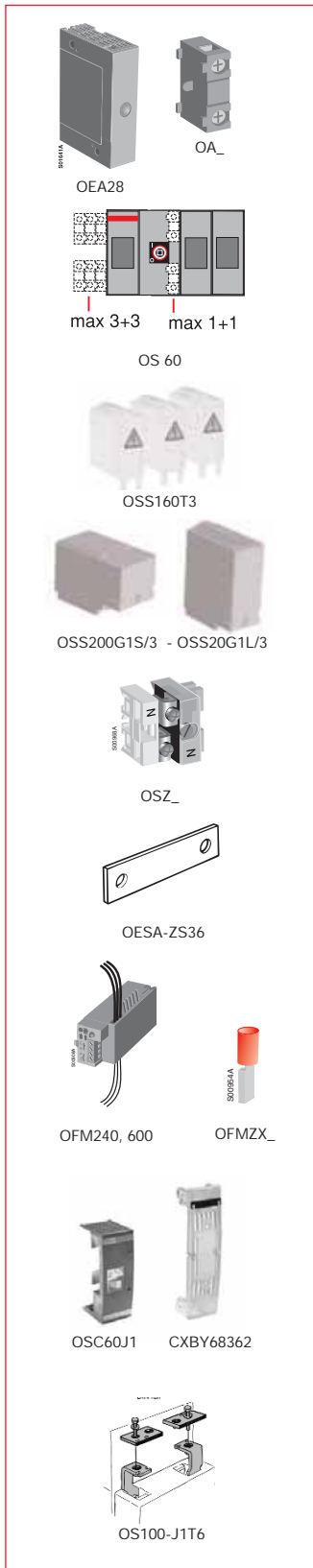
For use on:	Wire size	Wire type	Terminal lugs per kit	Catalog number	List price
OS100J	#14 – 2/0	Cu/Al	6	OZXA-24	
OS200J	#4 – 300 kcmil	Cu/Al	6	OZXA-200	

① Plastic pistol grip handle with stainless steel hasp, add suffix EH.

② Padlockable with three padlocks in the O- position when the door is open.

③ Padlockable with three padlocks in the OFF-position. Includes shaft and mechanism cover.

Accessories for 60A – 200A fusible disconnect switches



Auxiliary contacts

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. 1 N.C.	OS60, OS100, OS200	10 10	600 600	OA1G10 [Ⓞ] OA3G01	
Module for aux. contact	OS200			OEA28	

Ⓞ For OS 100...160:

Max. 6 aux. contacts per switch side mountable on to the side. The left side: 3 Test-contacts and 3 Test-indication contacts, No frames needed. Max. 3 aux. contacts mountable between the poles, of which two contacts can be used as Test-contacts and one contact is used as Test-indication contact.

For OS200: Max 4 test contacts or 2 test contacts + 2 test indication contacts(Mounting under the mechanism cover.)

Terminal shroud

Description	For use on:	Quantity for full protection [Ⓞ]	Qty per pkg	Catalog number	List price
Includes one terminal shroud per pole for line or load side	OS60	----	----	Standard	—
	OS100	6	1 x 1P	OSS160T1	
	OS100	2	1 x 3P	OSS160T3	
Long Type Short Type Long Type Short Type	OS200	2	3 x 1P	OSS200G1L/3	
		2	3 x 1P	OSS200G1S/3	
		2	4 x 1P	OSS200G1L/4	
		2	4 x 1P	OSS200G1S/4	

Ⓞ For both load and line sides

Terminal poles

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OS60	60	600	OSZ1	
	OS100	100	600	OSZ2	
	OS200	200	600	OXN250	

Shorting bars

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Solid links	OS60J	60	600	OESA-ZD54	
	OS100J	100	600	OESA-ZS36	
	OS200J	200	600	OESA-ZK98	

Fuse monitor, suitable for 3 phase circuits

Description	For use on:	AC rated voltage	Catalog number	List price
The Red LED indicates any BLOWN fuse and the 1 NO and 1 NC aux. contact gives an alarm or a trip signal. The Green LED indicates NORMAL status.	OS30-100	100...240	OFM240	
	OS30-100	380...600	OFM600	
	OS200	100...240	OFS240	
	OS200	380...600	OFS600	
Terminal crimp for OS30...200, kit of 6 pieces			OFMZ _{X2}	

Fuse Carriers - (replacement part), kit of 3

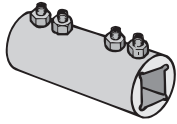
Description	For use on :	Catalog number	List price
Removal fuse carrier	OS60	OSC60J3	

Replacement fuse covers

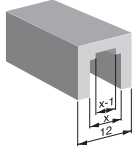
Description	For use on :	Catalog number	List price
Transparent fuse cover	OS100	CXBY68362	
Fuse Cover	OS200	CXBY68674	
Phase Barrier	OS200	CXBY68794	

"T" type fuse adapter kit

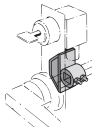
Description	For use on :	Catalog number	List price
100A, 600V, 3 pole	OS100	OS100-J1T6	
200A, 600V, 3 pole	OS200	OS200-J2T6	



OESA-ZX167
OETL-ZX95



OETL-ZK19
(X=6MM)

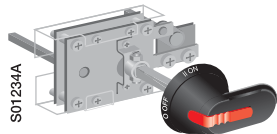


OETL-ZW16



S01266A

OESA-ZW2



S01234A

OESA-ZW1



OTZW26

Shaft extension coupler

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	6mm shafts 12mm shafts	OESA-ZX167 OETL-ZX95	

Shaft adapter

Description	For use on:	Catalog number	List price
Adapts one end of a 6mm shaft to 12mm. Use with shaft extension coupler	6mm shafts	OETL-ZK19	

Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key, interlock. Cam attachment for adapting to the interlock system. The interlock is not included.	OS60, OS100, OS200	OETL-ZW16	

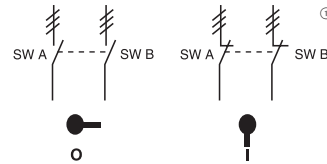
Conversion mechanisms • Switches are not included

Description	For use on:	Catalog number	List price
6 and 8 pole	OS60 – OS200	OESA-ZW2	
Transfer	OS60	OESA-ZW1	
Transfer	OS100 – OS200	OTZW25	
Bypass	OS100 – OS200	OTZW26	

6 or 8 pole — OESA-ZW2

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously. Shafts and handle OHB145J12 included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



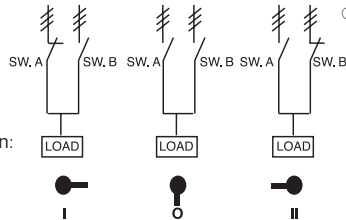
	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Transfer — OESA-ZW1, OTZW25

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A three position handle OHB80J6E011 and shafts are included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



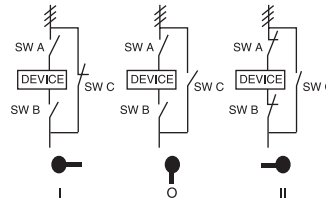
	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

Bypass — OTZW26

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass. A 3-position handle is included: OHB145J12E011 (Type 1,3R & 12) or shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches (see page 2.10)



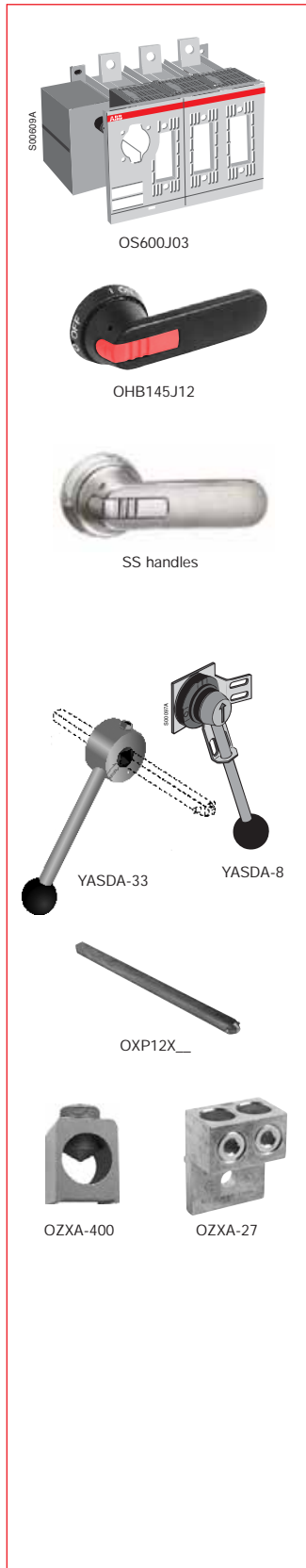
	POS. I	POS.O	POS.II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

X = Closed
O = Open

① ≡ Three poles



400A – 800A Fusible disconnect switches CSA fuse class J, T, L



400 – 800 Amp switches, 600V

CSA general purpose amp rating	CSA Fuse type 600V	Maximum horsepower rating Three phase					Catalog number	List price	
		200V	208V	240V	480V	600V			
2 pole	400	J	—	—	—	—	OS400J02		
	600	J	—	—	—	—	OS600J02		
	800	L	—	—	—	—	OS800L02		
3 pole	400	J	100	125	125	250	350	OS400J03	
	400	J	100	125	125	250	350	OS400J12	
	400	J	100	125	125	250	350	OS400J30	
	600	J	150	150	200	400	500	OS600J03	
	600	J	150	150	200	400	500	OS600J12	
	600	J	150	150	200	400	500	OS600J30	
	800	L	200	200	250	500	600	OS800L03	
4 pole	400	J	100	125	125	250	350	OS400J04	
	600	J	150	150	200	400	500	OS600J04	
	800	L	200	200	250	500	600	OS800L04	

Pistol handles — (□ 12 x 12mm) ②

NEMA type	IEC type	Color	Length mm	Marking	Defeat-able	Padlock-able	Catalog number	List price
1,3R,12	IP65	Blk	145	O/I & Off/On	Yes	Yes	OHB145J12	
1,3R,12	IP65	R/Y	145	O/I & Off/On	Yes	Yes	OHY145J12	
1,3R,12	IP65	Grey	145	O/I & Off/On	Yes	Yes	OHG145J12	
1,3R,12	IP65	Blk	175	O/I & Off/On	Yes	Yes	OHB175J12	
1,3R,12	IP65	R/Y	175	O/I & Off/On	Yes	Yes	OHY175J12	
1,3R,4,4X,12	IP66	Blk	145	O/I & Off/On	Yes	Yes	OHB145L12	
1,3R,4,4X,12	IP66	R/Y	145	O/I & Off/On	Yes	Yes	OHY145L12	
1,3R,4,4X,12	IP66	Blk	175	O/I & Off/On	Yes	Yes	OHB175L12	
1,3R,4,4X,12	IP66	R/Y	175	O/I & Off/On	Yes	Yes	OHY175L12	
1,3R,4,4X,12	IP65	Metal	220	Off/On	—	Yes	YASDA-8	
1,3R,4,4X,12	IP66	SS	125	O/I & Off/On	Yes	Yes	OHM125L12	
1,3R,4,4X,12	IP66	SS	175	O/I & Off/On	Yes	Yes	OHM175L12	
1,3R,4,4X,12	IP66	SS	275	O/I & Off/On	Yes	Yes	OHM275L12	
Direct Mounted Handle		Metal	220	—	—	—	YASDA-33	

Shaft 12 mm — (□ 12 x 12mm)

Shaft length mm	Mounting depth ^① (mm)		Catalog number	List price
For use on	OS400J_	OS600J_ – OS800L_		
250	231 – 340	254 – 325	OXP12X250	
280	259 – 368	285 – 356	OXP12X280	
325	305 – 414	330 – 401	OXP12X325	
395	376 – 485	401 – 472	OXP12X395	
465	445 – 556	470 – 541	OXP12X465	
535	516 – 625	536 – 612	OXP12X535	

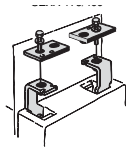
Terminal lug kit

For use on:	Wire size	Wire type	Terminal lugs per kit	Catalog number	List price
OS400J_	#2 – 600 kcmil	Cu/Al	6	OZXA-400	
OS400J_	(2)#2 – 300 kcmil	Cu/Al	6	OZXA-402	
OS400J_	(2)#2 – 500 kcmil	Cu/Al	6	OZXA-33	
OS600J_	(2)#2 – 600 kcmil	Cu/Al	6	OZXA-800	
OS800L_	(2)#2 – 600 kcmil	Cu/Al	6	OZXA-800	

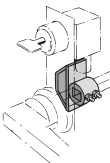
① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

② Plastic pistol grip handle with stainless steel hasp, add suffix EH.
ex.: OHB175J12EH.

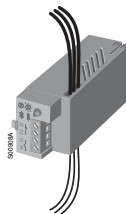
Accessories for 400A – 800A fusible disconnect switches



OESAZX1-J_



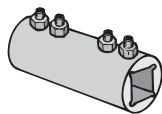
OETL-ZW5



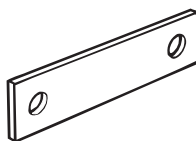
OFM240, 600



OFMZX_



OETL-ZX95



OESA-ZL79

"T" type fuse adapter kit

For use on :	For use with :	AC thermal amp rating	AC rated voltage	Poles	Catalog number	List price
OS400	600V Class T fuse	400	600	3	OESAZX1-J4T6	
OS600	600V Class T fuse	600	600	3	OESAZX1-J6T6	
OS800	300 & 600V Class T fuse	800	600	3	OESAZX1-L8T6	

Auxiliary contacts

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. 1 N.C.	OS400...800	10	600	OA1G10	
Module for auxiliary contacts		10	600	OA3G01	
		10	600	OEA28	

OS400-800: Max 4 test contacts and 4 test indication contacts. The test contacts can be used as standard auxiliary contacts as well. Auxiliary contacts for 3 + N types only with the OEA28 module (Screw mounting to the left side of the switch).

Fuse cover interlock

Description	For use on:	Catalog number	List price
Prevents the fuse cover from being opened when the switch is in the ON position	OES800	OESA-ZX204	

Terminal shrouds

Description	For use on:	Number of poles	Catalog number	List price
Line or load side	OS400J03	3	OTS403	
	OS600J03	3	OTS603	
	OS400J12/OS600J12	3	OETL-ZX119	
	OS800L03	3 x 1P Long type 3 x 1P Short type	OSS800G1L/3 OSS800G1S/3	

Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key, interlock. For adapting to the interlock system. The interlock is not included.	OS400 – OS800	OETL-ZW5	

Fuse monitor, suitable for 3 phase circuits

Description	AC rated voltage	Catalog number	List price
The Red LED indicates any BLOWN fuse and the 1 NO and 1 NC aux. contact gives an alarm or a trip signal. The Green LED indicates NORMAL status.	100...240	OFM240	
	380...600	OFM600	
Terminal crimp for OS, kit of 6 pieces		OFMZX2	
Terminal crimp for OES800, kit of 6 pieces		OFMZX4	

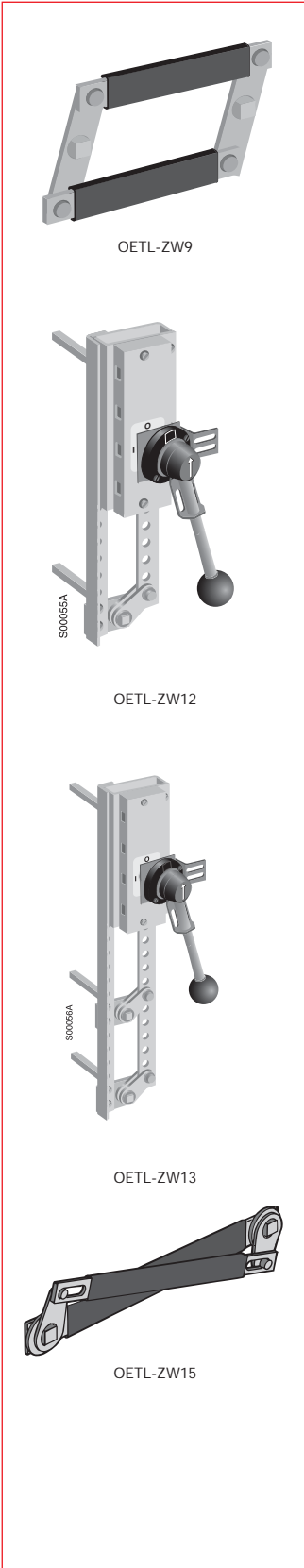
Shaft extension coupler

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	12mm shafts	OETL-ZX95	

Shorting bars

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Solid links	OS400, OS600, OS800	800	600	OESA-ZL79	

★ - Coil voltage
Ⓢ - Not CSA Approved



Conversion mechanisms

- Switches are not included

Description	For use on:	Catalog number	List price
6 or 8 pole Transfer Bypass Mechanical interlock	OS400 ... OS800	OETL-ZW9 OETL-ZW12 OETL-ZW13 OETL-ZW15	

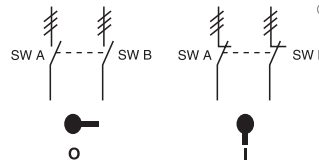
6 or 8 pole — OETL-ZW9

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle
- Two shaft

(Only one shaft is included with mechanism)



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

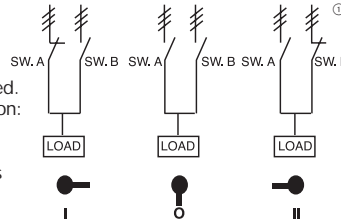
X = Closed
O = Open

Transfer — OETL-ZW12

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position.

A three position handle YASDA-21 is included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two OETL-ZX95 shaft extension couplers
- Two shafts



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

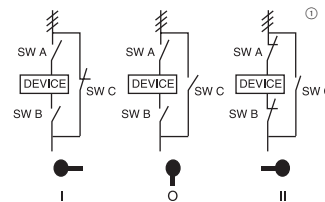
X = Closed
O = Open

Bypass — OETL-ZW13

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass. A three position handle YASDA-6 is included.

Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches
- Three OETL-ZX95 shaft extension couplers
- Three shafts



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

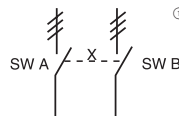
X = Closed
O = Open

Mechanical interlock — OETL-ZW15

Mechanical interlock mechanism prevents both switches from being in the "ON" position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two handles
- Two shafts



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

① ≡ = Three poles

Other configurations

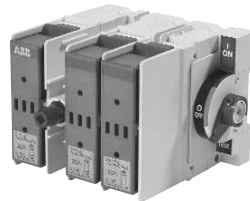
Side operated ①

30A – 400A, CSA fuse class J,CC,T



For a complete assembly, please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug



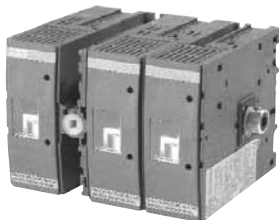
OS30A_S_



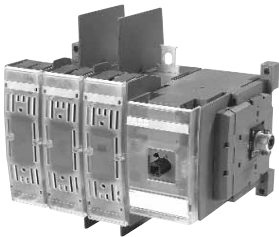
OXP5X170



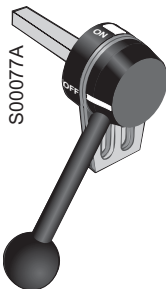
OHY65J5



OS60JS30



OS100JS30



OETL-ZX74



OXP12X325



OZXA-25

Side operated switches — 3 pole

CSA general purpose amp rating	CSA fuse type 600V	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
30	J	5	7.5	7.5	15	20	OS30AJS30	
30	CC	5	7.5	7.5	15	20	OS30ACCS30	
60	J	15	15	15	30	50	OS60JS30	
100	J [ⓐ]	25	25	30	60	75	OS100JS30	
200	J [ⓐ]	50	50	60	125	150	OES200J3-S	
400	J [ⓐ]	100	125	125	250	350	OES400J3-S	

Handles

CSA/NEMA type	IEC type	Color	Length mm	Marking	Defeatable	Padlockable	Catalog number	List price
For use with OS30A_S30								
1, 3R, 12	IP65	Black	2.6/65	OFF/ON	Yes	Yes	OHB65J5	
1, 3R, 12	IP65	Red/Yel	2.6/65	OFF/ON	Yes	Yes	OHY65J5	
For use with OS60JS30 & OS100JS30								
1, 3R, 12	IP65	Black	3.1/80	OFF/ON	Yes	Yes	OHB80J6	
1, 3R, 12	IP65	Red/Yel	3.1/80	OFF/ON	Yes	Yes	OHY80J6	
For use with OES200J3-S & OES400J3-S								
1, 3R, 12	IP65	Black	4.9/145	OFF/ON	Yes	Yes	OHB145J12	
1, 3R, 12	IP65	Red/Yel	4.9/145	OFF/ON	Yes	Yes	OHY145J12	
1, 3R, 12	IP65	Metal	4.9/145	OFF/ON	No	Yes	OETL-ZX74	

Shafts

For use on :	Length mm	Description	Catalog number	List price
OS30AJS30 & OS30ACCS30	170	5 x 5mm	OXP5X170	
OS60JS30 & OS100JS30	170	6 x 6mm	OXP6X210	
OES200J3-S & OES400J3-S	325	12 x 12mm	OXP12X325	

Terminal lug kits

For use on:	Wire size	Weight	Wire type	Lugs per kit	Catalog number	List price
OS30AJS30 & OS30ACCS30	#18 – 8	—	Cu	—	Integral	—
OS60JS30	#14 – 4	—	Cu	—	Integral	—
OS100JS30	#14 – 2/0	0.43	Cu/Al	6	OZXA-24	
OES200J3-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZXA-25	
OES400J3-S	#2 – 600 kcmil	3.50	Cu/Al	6	OZXA-26	

ⓐ J type fuse clips are standard. If 600V Type "T" fuse clips are desired, please order the "T" type fuse adapter kit.



Flange operated disconnect switches

Cable operated fusible

30A – 200A



OS100J03-FC



OHF1C12



OXC1L36



OZXA-200

30A - 800A fusible disconnect switches

CSA general purpose amp rating A	CSA/UL fuse type 600V	Maximum horsepower rating				Poles	Catalog number	List price
		Three phase						
		200V-208V	240V	480V	600V			
30	CC	5/7.5	7.5	15	20	3	OS30ACC12-FC	
30	J	5/7.6	7.6	15	20	3	OS30AJ12-FC	
60	J	15	15	30	50	3	OS60J12-FC	
100	J/T	25	30	60	75	3	OS100J03-FC	
200	J/T	50	60	125	150	3	OS200J03-FC	

Flange handle

For use with:	Nema Type	Catalog number	List price
OS30_ - OS200J03_	1, 3R, 12	OHF1C12	
	1, 3R, 4, 4X, 12	OHF1C4	

Cable

For use with:	Cable length (inches)	Catalog number	List price
OS30_ - OS200J03_	36	OXC1L36	
	48	OXC1L48	
	60	OXC1L60	
	72	OXC1L72	
	84	OXC1L84	
	96	OXC1L96	
	108	OXC1L108	

Terminal lug kit

For use on:	Wire size	Wire type	Lugs/kit	Catalog number	List price
OS30_ OS60J03_ OS100J03_	#18 - 8/0	Cu	--	Integral	--
	#14 - 4	Cu	--	Integral	--
	#14 - 2/0	Cu/Al	6	OZXA-24	
OS200_	#4 - 300 kcmil	Cu/Al	6	OZXA-200	
	(6) #14 - 6 kcmil	Cu/Al	3	OZXA-206S	

Other configurations

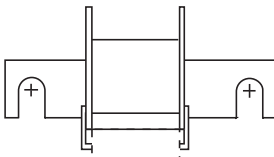
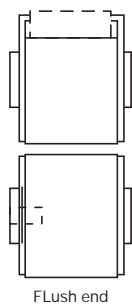
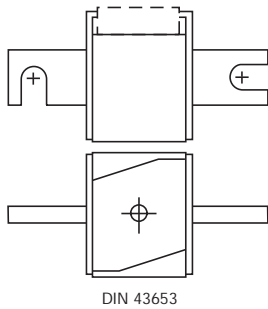
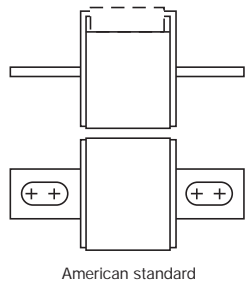
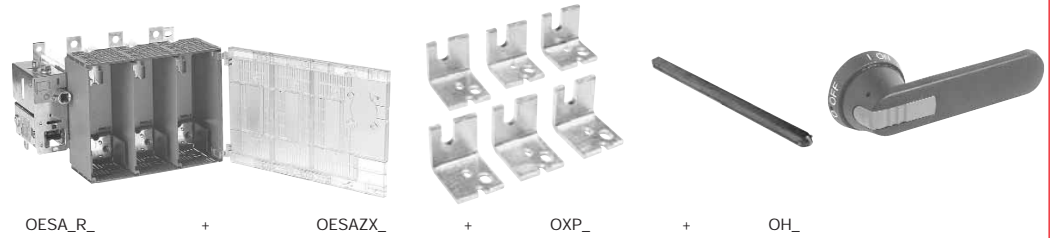
High speed fuse pattern

Special type fuses



For a complete assembly, please select one of each:

- 1 switch body
- 1 adapter kit
- 1 shaft
- 1 handle



Selecting switch bodies and adapter kits

Please select switch body and adapter kit according to your fuses. Switch body alone can not be used — an adapter kit is always needed.

Switch bodies – 200A through 800A

CSA general purpose amp rating	Maximum horsepower rating				Max. allowed fuse power dissipation at rated current	Catalog number	List price
	Three phase						
	208V	240V	480V	600V			
3 pole							
200	50	60	125	150	22W	OES200R03	
400	125	125	250	350	45W	OES400R03	
600	150	200	400	500	60W	OES600R03	
800	200	250	500	600	65W	OES800R03	
4 pole							
200	50	60	125	150	22W	OES200R04	
400	125	125	250	350	45W	OES400R04	
600	150	200	400	500	60W	OES600R04	
800	200	250	500	600	65W	OES800R04	

Fuse adapter kits — for switches OES200 - OES400

Fuse standard	For 3 pole switch		For 4 pole switch	
	Catalog number	List price	Catalog number	List price
American standard	OESAZX1-S4 OESAZX1-S5		OESAZX1-S4/4 OESAZX1-S5/4	
DIN80 (DIN43653) DIN 80 sizes 00 and 000 (DIN 43653)	OESAZX1-S7 OESAZX1-S9		OESAZX1-S7/4 OESAZX1-S9/4	
DIN110 (DIN43653) DIN140 (DIN43653)	OESAZX1-S2 OESAZX1-S6		OESAZX1-S2/4 OESAZX1-S6/4	
Flush-end, 70 mm body Flush-end, 50 mm body	OESAZX1-S8 OESAZX1-S3		OESAZX1-S8/4 OESAZX1-S3/4	
French French with micro switches	OESAZX1-S10 OESAZX1-S11		OESAZX1-S10/4 OESAZX1-S11/4	

Fuse adapter kits — for switches OES600 - OES800

Fuse standard	For 3 pole switch		For 4 pole switch	
	Catalog number	List price	Catalog number	List price
American standard DIN80, DIN 110, DIN 140 (DIN43653) Flush-end, 50 mm and 70 mm body	OESAZX2-S4 OESAZX2-S2 OESAZX2-S3		OESAZX2-S4/4 OESAZX2-S2/4 OESAZX2-S3/4	
French French with micro switches	OESAZX2-S5 OESAZX2-S6		OESAZX2-S5/4 OESAZX2-S6/4	

Handles and shafts — see pages 2.14

Selecting the right fusible disconnect for HSF fuses may be difficult. Due to CSA restrictions it is not possible to give a general fuse selection table for your use. Therefore we ask you to contact ABB, in application issues. Information needed is nominal current of the application and catalog number of the fuse



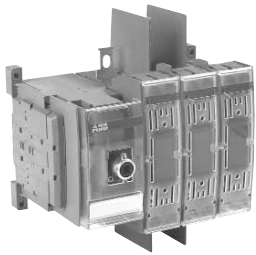
Other configurations

Fusible switches, DIN-Type

32A – 800A



OS63D12



OS160

Fusible switches, DIN - Type (32A - 800A)

Handle and shaft included

Rated current	AC23A rated operational power in kW			Fuse type	Catalog number	List price
	400V	500V	690V			
3 pole						
32	15	18,5	22	000, 00	OS32D12	
63	30	37	55	000, 00	OS63D12	
125	55	75	110	000, 00	OS125D12	
160	75	90	132	000, 00	OS160D12	
200	110	132	200	0	OS200D12P	
250	140	170	250	0, 1	OS250D12P	
400	220	280	400	0, 2	OS400D12P	
630	355	450	560	3	OS630D12P	
800	400	500	710	3	OS800D12P	
4 pole						
32	15	18,5	22	000, 00	OS32D22F	
63	30	37	55	000, 00	OS63D22F	
125	55	75	110	000, 00	OS125D22F	
160	75	90	132	000, 00	OS160D22F	
200	110	132	200	0	OS200D22N2P	
250	140	170	250	0, 1	OS250D22N2P	
400	220	280	400	0, 2	OS400D22N2P	
630	355	450	560	3	OS630D22N2P	
800	400	500	710	3	OS800D22N2P	



DIN fuses are mainly used in continental Europe (excluding France below 125A), Asia, Africa and South-America

Ⓞ Please consult factory for additional information.

Other configurations

Fusible switches, NFC-Type

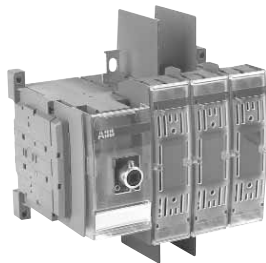
63A – 125A, 14x51 & 22x58



OS32F1214



OS63F12



OS125F03

Fusible switches, NFC-Type

Handle and shaft included

Rated current	AC23A rated operational power in kW			Fuse type	Catalog number	List price
	400V	500V	690V			
3 pole						
25	11	15	22	10x38	OS25F1210	
32	11	18.5	22	14x51	OS32F1214	
50	20	30	37	14x51	OS50F12	
63	30	37	55	22x58	OS63F12	
100	55	55	90	22x58	OS100F12	
125	55	75	110	22x58	OS125F12	
4 pole						
25	11	15	22	10x38	OS25F2210N1	
32	11	18.5	22	14x51	OS32F2214N1	
50	20	30	37	14x51	OS50F22N1	
63	30	37	55	22x58	OS63F22N1	
100	55	55	90	22x58	OS100F22N1	
125	55	75	110	22x58	OS125F22N1	



NFC fuses are used in France and in French speaking Africa

ⓘ Please consult factory for additional information.



Other configurations

Fusible switches, BS-Type

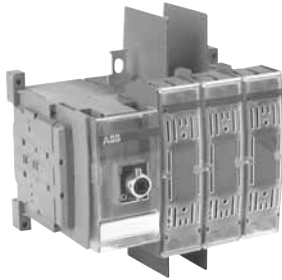
20A – 800A



OS32B12A1



OS63B12



OS160

Fusible switches, BS - Type

Handle and shaft included

Rated current	AC23A rated operational power in kW			Fuse type	Catalog number	List price
	230V	400V	690V			
3 pole						
20	7.5	11	15	A1	OS20B12A1	
32	11	18.5	22	A2, A3	OS32B12	
63	30	37	55	A2, A3	OS63B12	
100	55	55	90	A2, A3	OS100B12	
125	55	75	110	A2, A3, A4	OS125B12	
160	75	90	132	A2, A3, A4	OS160B12	
200	110	132	200	B1, B2	OS200B12P	
250	140	170	250	B1-B3	OS250B12P	
315	160	220	220	B1-B4	OS315B12P	
400	220	280	400	B1-B4	OS400B12P	
630	355	450	560	C1, C2	OS630B12P	
800	400	500	710	C1-C3	OS800B12P	
4 pole						
20	7.5	11	15	A1	OS20B22A1N1	
32	11	18.5	22	A2, A3	OS32B22N1	
63	30	37	55	A2, A3	OS63B22N1	
100	55	55	90	A2, A3	OS100B22N1	
125	55	75	110	A2, A3, A4	OS125B22N1	
160	75	90	132	A2, A3, A4	OS160B22N1	
200	110	132	200	B1, B2	OS200B22N2P	
250	140	170	250	B1, B3	OS250B22N2P	
315	160	220	220	B1, B4	OS315B22N2P	
400	220	280	400	B1, B4	OS400B22N2P	
630	355	450	560	C1, C2	OS630B22N2P	
800	400	500	710	C1, C3	OS800B22N2P	



BS fuses are widely used in UK, South-Africa, Australia and Hong Kong

Other configurations

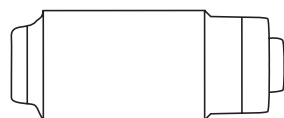
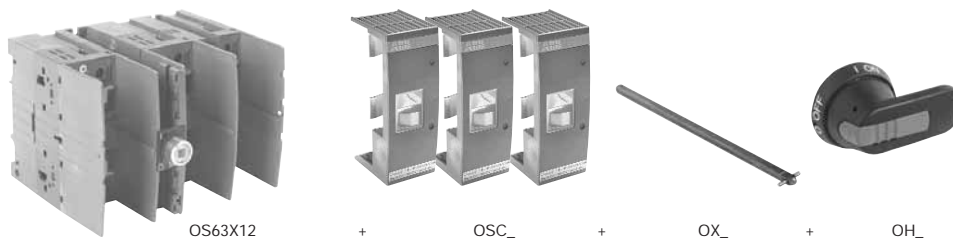
Global concept disconnect switches

32A – 60A

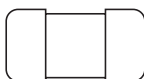


For a complete assembly, please select one of each:

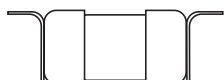
- 1 fusible disconnect body
- 1 set of fuse carriers
- 1 shaft
- 1 handle



DIN Neozed 0_



NFC STYLE



BS88

NOTE: Handles and shafts — see pages 2.8 for OS32_ and page 2.10 for OS63_.

About the global concept ...

Customers in Boston and Berlin?

Do your customers in Boston prefer UL Class J fuses and your customers in Berlin specify DIN standard fuses? No problem!

ABB Global concept fusible disconnect switches offer the flexibility to design a panel using a common disconnect

body. When the panel destination is known, simply insert the appropriate fuse carrier.

Global concept = common disconnect body + an assortment of fuse carriers.

High volumes with various fuse types — Global concept.

Fusible disconnect bodies — 30A & 60A

UL general purpose amp rating	IEC AC21 amp rating	Description	Catalog number	List price
30	32	3 pole	OS32M12	
		4 pole	OS32M22F	
		3 pole + neutral	OS32M22N1 ^①	
		3 pole, side operation	OS32MS30	
		4 pole, side operation	OS32MS40F	
		3 pole + neutral, side operation	OS32MS40N1 ^①	
60	63	3 pole	OS63X12	
		4 pole	OS63X22F	
		3 pole + neutral	OS63X22N1 ^①	
		3 pole, side operation	OS63XS30	
		4 pole, side operation	OS63XS40F	
		3 pole + neutral, side operation	OS63XS40N1 ^①	

Fuse carriers for 3 pole units and units with neutral ②

For use on:	Fuse type	Catalog number	List price
OS32M_	UL J 30A	OSC30AJ3	
	UL CC 30A	OSC30ACC3	
	DIN Neozed D01	OSC16D301	
	DIN Neozed D02	OSC35D302	
	NFC 10x38	OSC25F310	
	NFC 14x51	OSC32F314	
	BS88 A1	OSC32B3A1	
	BS88 A2	OSC32B3A2	
	BS88 E1	OSC32B3E1	
	BS88 F1	OSC32B3F1	
	OS63X_	UL J 60A	
NFC 14x51		OSC50F3	
NFC 22x58		OSC63F3	
BS88 A2, A3 CSA C30, C60		OSC63B3	
DIN 000, 00		OSC63D3	

Fuse carriers for 4 pole units ③

For use on:	Fuse type	Catalog number	List price
OS32M_	UL J 30A	OSC30AJ4	
	UL CC 30A	OSC30ACC4	
	DIN Neozed D01	OSC16D401	
	DIN Neozed D02	OSC35D402	
	NFC 10x38	OSC25F410	
	NFC 14x51	OSC32F414	
	BS88 A1	OSC32B4A1	
	BS88 A2	OSC32B4A2	
	BS88 E1	OSC32B4E1	
	BS88 F1	OSC32B4F1	
	OS63X_	UL J 60A	
NFC 14x51		OSC50F4	
NFC 22x58		OSC63F4	
BS88 A2, A3 CSA C30, C60		OSC63B4	
DIN 000, 00		OSC63D4	

① N1-versions will be delivered with neutral carrier.

② Part number includes 3 pieces of fuse carriers.

③ Part number includes 4 pieces of fuse carriers.

CSA & UL Technical data for fusible disconnect switches OS30 – OS800L03



CSA & UL

Catalog number	3 pole	OS30AJ12	OS60J12	OS100J12	OS200J03	OS400J03	OS600J03	OS800L03
Approvals ^①	2 pole	N/A	N/A	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	3 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	4 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
Technical ratings	40°C							
General purpose amp rating	A	30	60	100	200	400	600	800
pf = 0.7 – 0.8								
Max operating voltage	V	600	600	600	600	600	600	600
Max horsepower rating/ Max motor FLA current pf = 0.4 – 0.5								
Three phase								
208V	HP/A	7.5/24	15/46	25/75	50/150	100/300	150/396	150/396
240V	HP/A	7.5/22	15/42	30/80	60/154	125/312	200/480	200/480
480V	HP/A	15/21	30/40	60/77	120/156	250/302	400/477	500/590
600V	HP/A	20/22	50/52	75/77	150/144	350/336	500/472	500/472
Single phase								
120V	HP/A	2/24	—	—	—	—	—	—
240V	HP/A	3/17	—	—	—	—	—	—
Short circuit rating with fuse	kA	200	200	200	100	100	200	200
CSA Fuse size	A	30	60	100	200	400	600	800
CSA Fuse type	J/CC	J	J	J/T	J/T	J/T	J/T	L
Endurances								
Min. Electrical endurance, pf = 0.75 – 0.80	operation cycles	6000	6000	6000	6000	1000	1000	1000
Mechanical endurance	operation	20,000	20,000	20,000	16,000	12,000	10,000	10,000
Physical characteristics								
Weight	3 pole Kg	0.7	1.3	1.5	2.6	5.7	13	13
	4 pole Kg	0.9	1.6	1.8	3.2	6.9	17	17
Dimension	3 pole H mm	97	100	144	200	230	306	306
	W mm	106	145	180	182	255	343	343
	D mm	107	128	120	132	176	233	233
Shaft size	square □ mm	5 x 5	6 x 6	6 x 6	6 x 6	12 x 12	12 x 12	12 x 12
Switch operating torque for rotary 3 pole switches	lb. in.	26	35	70	—	195	248	248
Terminal lug kits								
Wire range	AWG	Standard #18 – #8	Standard #14 – #4	OZXA-24 #14 – 2/0	OZXA-200 #4 – 300kcmil	OZXA-400 #2 – 600kcmil	OZXA-800 (2) #2 – 600 kcmil	OZXA-800 (2) #2 – 600 kcmil
Torque:								
Wire tightening	lb. in.	17	30	120	275	500	500	500
Lug mounting	lb. in.	Standard	Integral	50	150	480	480	480
Auxiliary contacts								
NEMA ratings, AC		OA_G__	OA_G__	OA_G__	OA_G__	OA_G__	OA_G__	OA_G__
AC rated voltage	VAC	A600	A600	A600	A600	A600	A600	A600
AC thermal rated current	A	600	600	600	600	600	600	600
AC maximum volt ampere making	VA	10	10	10	10	10	10	10
AC maximum volt ampere breaking	VA	7200	7200	7200	7200	7200	7200	7200
NEMA ratings, DC		720	720	720	720	720	720	720
DC rated voltage	VDC	R300	R300	R300	P600	P600	P600	P600
DC thermal rated current	A	300	300	300	600	600	600	600
DC maximum make break current	A	1	1	1	1	1	7	7
Torque:		28	28	28	28	28	28	28
Wire tightening	lb. in.	7	7	7	7	7	7	7
Wire range	AWG	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14

① The following CSA approved switches are also UL Listed.



IEC Technical data

Fusible disconnect switches

OS30 – OS800L03

IEC

Catalog number	3 pole	OS30A_12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OS800L03
Technical ratings	-40° to 40°C							
Rated insulation voltage								
Pollution degree 3 ⑤	V	1000	1000	1000	1000	1000	1000	1000
Dielectric strength 50Hz/60Hz, 1 min	kV	10	10	10	10	10	10	10
Rated impulse withstand voltage	kV	12	12	12	12	12	12	12
Rated thermal current, I _{th} /max. fuse power dissipation ①								
AC 20/DC 20 open ②	A/W	32/3.5	63/7.5	160/12	200/17	400/45	630/60	800/65
40°C enclosed	A/W	32/3.5	63/7.5	160/10, 135/12	200/17	400/34, 360/37	600/45, 570/50	720/55
Enclosed with solid links	A/W	32	85	175	280	450	700	900
with minimum cable cross section Cu	mm ²	6	16	70	95	240	2 x 185	2 x 240
Rated operational voltage AC 20 and DC 20V		1000	1000	1000	1000	1000	1000	1000
AC Rated operational currents								
AC 21A	≤500V A	32	63	160	200	400	630	800
	≤690V A	32	63	160	200	400	630	800
AC 22A	≤500V A	32	63	160	200	400	630	800
	≤690V A	32	63	160	200	400	630	800
AC 23A	≤500V A	32	63	160	200	400	630	800
	≤690V A	32	63 ③	160 ③	200	400	630	800
DC Rated operational currents/poles in series								
DC21A	48V A	32/2	63/2	160/2	200/1	400/2		
	110V A	32/2	63/3	160/2	200/1	400/2		
	220V A	32/2	63/3	160/2	200/1	400/2		
	440V A	32/4	63/4	160/3	200/2	400/2		
	750V A	—	—	—	180/4	400/3		
	1000V A	—	—	—	—	400/4		
DC22A	48V A	32/2	63/2	160/2	200/1	400/2		
	110V A	32/2	63/3	160/2	200/1	400/2		
	220V A	32/2	63/3	160/2	200/1	400/2		
	440V A	32/4	63/4	160/3	200/2	400/2		
	750V A	—	—	—	180/4	400/3		
	1000V A	—	—	—	—	400/4		
DC23A	48V A	32/2	63/2	160/2	200/1	400/2		
	110V A	32/2	63/3	160/2	200/1	400/2		
	220V A	32/2	63/3	160/2	200/1	400/2		
	440V A	32/4	63/4	125/4	200/2	400/2		
	750V A	—	—	—	180/4	400/3		
	1000V A	—	—	—	—	—		
Rated operational power	AC23A							
230V	kW	7.5	18.5	45	60	132	200	250
400V	kW	15	30	75	110	220	355	450
415V	kW	15	30	75	110	230	355	450
500V	kW	18.5	37	90	132	280	450	560
690V	kW	22	55	132	200	400	630	710

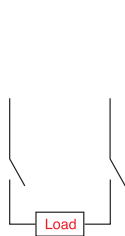


Figure 1



Figure 2

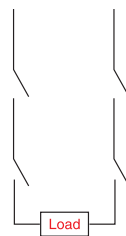
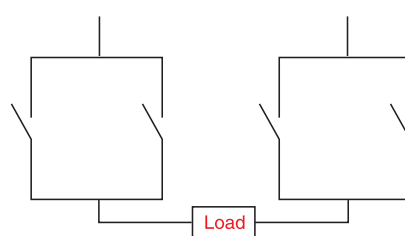


Figure 3



- ① Ambient temperature 60°C: derating 20 percent. Mounting on ceiling: derating 10 percent. Mounting on wall, horizontal fuses: derating 8 percent.
- ② The ambient air temperature does not exceed +40°C and its average over a period of 24h does not exceed +35°C according to IEC 947.
- ③ For 30A switches, use 2 + 2 parallel contacts in series.
- ④ Available on request.
- ⑤ IEC 947-3, utilization category B, infrequent operation.
- ⑥ Pollution degree 3: Conductive pollution occurs, or dry, non-conductive pollution occurs, which becomes conductive due to condensation.

IEC Technical data

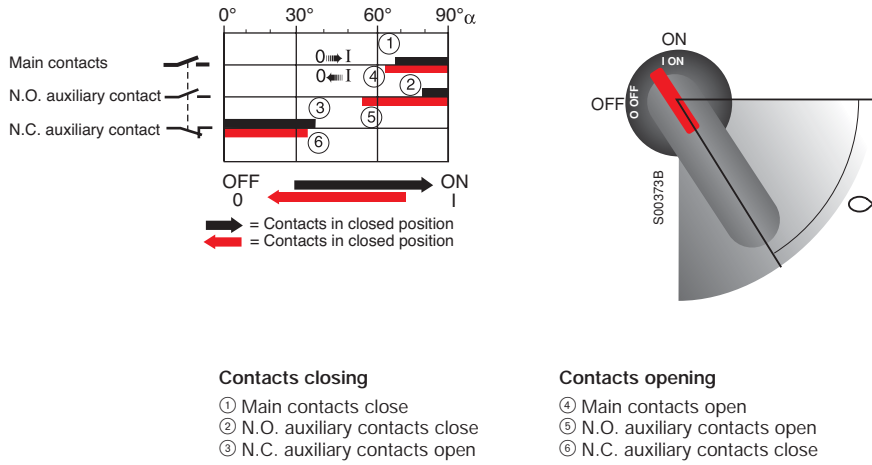
Fusible disconnect switches

OS30 – OS800L03

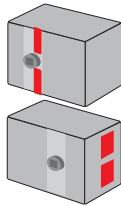


Catalog number		3 pole	OS30A_12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OS800L03
Rated breaking capacity									
in category AC-23A	500V	A	256	504	1280	1600	3200	5760	5760
	690V	A	256	504	1280	1600	3200	5760	5760
Rated breaking capacity/poles in series									
in category DC-23	<220V	A	128/2	—	—	1000/2	1600/2	3200/2	3200/2
	440V	A	128/4	—	—	1000/2	1600/2	3200/2	3200/2
	500 – 750V	A	—	—	—	1000/3	1600/3	3200/3	3200/3
	1000V	A	—	—	—	—	—	3200/4	3200/4
Rated conditional short-circuit current r.m.s. ^①									
	80 kA, 415V	kA	9	17	22	35	40	75	75
	100 kA, 500 V	kA	7.5	17	22	37.5	40	75	75
	50 kA, 690 V	kA	6	13	15	35	35	60	60
		kA	1	2.5	5	8	10	16	16
Rated short time withstand current, 1s.									
Rated capacitor power									
The capacitor rating of the fusible disconnect switch is limited by the fuse link									
400 V	kVar		15	30	—	—	180	250	310
	415V	kVar	15	32	—	—	200	270	340
	690V	kVar	25	50	—	—	325	450	550
Power loss/pole with rated current, without fuse		W	2	4	9	8	30	46	75
Mechanical endurance		operations	20,000	20,000	20,000	20,000	16,000	10,000	10,000
Fuse types, IEC 269-2		DIN 43620	—	000, 00	000, 00	0 – 1	0 – 2	3	3
		NFC	10 x 38, 14 x 51	14 x 51, 22 x 58	22 x 58	0 – 1	0 – 2	3	3
		BS 88	A1, A2, F1	A2 – A3	A2 – A4	B1 – B2	B1 – B4	C1 – C2	C1 – C3
size/distance of link bolts			M4/44.5(A1) M5/73(A2)	M5/73	M5/73 M8/94	M6/111	M8/111	M10/133, 184	M10/133, 184
Physical characteristics									
Weight	3 pole	kg	0.7	1.3	1.5	2.6	5.7	13	13
	4 pole	kg	0.9	1.6	1.8	3.2	6.9	17	17
Dimension	3 pole	H mm	93	100	144	200	226	306	306
		W mm	106	143	179	182	286	343	343
		D mm	104	120	129	132	198	233	233
Shaft size	square	mm	5 x 5	6 x 6	6 x 6	6 x 6	12 x 12	12 x 12	12 x 12
Terminals									
Built-in terminal size mm ²			0.5 – 10	2.5 – 25	—	—	—	—	—
Terminal bolt size, metric thread diameter x length mm		—	—	—	M6 x 20	M8 x 25	M10 x 40	M12 x 40	M12 x 40
Terminal bolt tightening torque		Nm	2	3.5	6 – 9	15 – 22	30 – 44	50 – 75	50 – 75
Fuse-links bolts tightening torque		Nm	2	3.5	3.5 – 5	4	15	40	40
Operating torque		Nm	3	4	8	7	22	28	28
Auxiliary contacts			OA4G_	OA1/3G	OA_G_	OA_G_	OA_G_	OA_G_	OA_G_
Ratings according to IEC 947-5-1									
Rated voltage, U _i		VAC	690	690	690	690	690	690	690
Thermal current, I _{th}		A	10	16	16	16	16	16	16
AC12 / DC12, I _e		U _e =24V	— / 6	—	—	—	—	—	—
		120V	— / 6	—	—	—	—	—	—
		125V	—	—	—	—	—	—	—
		230V	—	6 / —	6 / —	6 / —	6 / —	6 / —	6 / —
		250V	A	3 / 0.1	—	—	—	—	—
		400V	A	—	4 / —	4 / —	4 / —	—	—
		415V	A	—	—	—	—	—	—
		440V	A	2 / —	—	—	—	—	—
		480V	A	—	—	—	—	—	—
		500V	A	—	—	—	—	—	—
		600V	A	—	—	—	—	—	—
		690V	A	—	2 / —	2 / —	2 / —	2 / —	2 / —

Legend



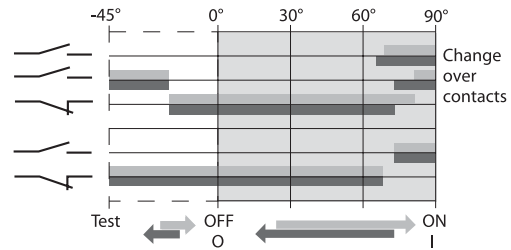
OS 30_



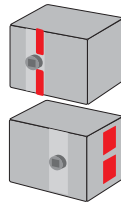
OA4B1C
OA4B1C
OA1G10
OA3G01

Main contacts
NO auxiliary contact
NC auxiliary contact

NO auxiliary contact
NC auxiliary contact



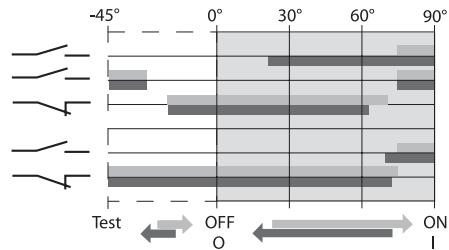
OS 60_



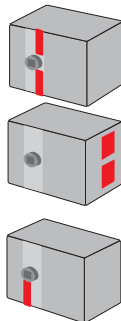
OA1G10
OA3G01
OA1G10
OA3G01

Main contacts
NO auxiliary contact
NC auxiliary contact

NO auxiliary contact
NC auxiliary contact



OS 100_

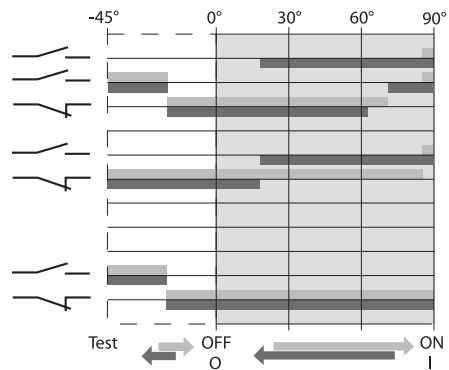


OA1G10
OA3G01
OA1G10
OA3G01
OA1G10
OA3G01

Main contacts
NO auxiliary contact
NC auxiliary contact

NO auxiliary contact
NC auxiliary contact

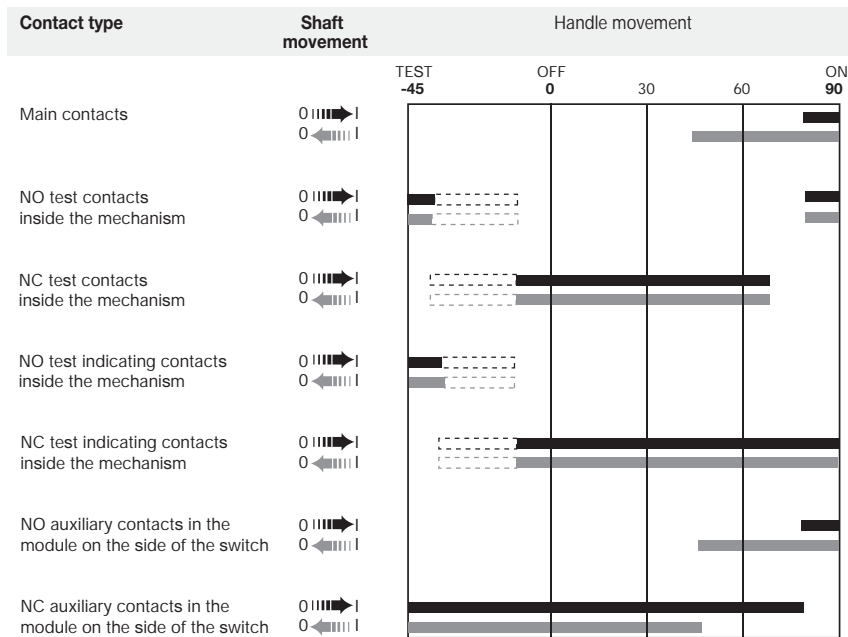
Test ind NO
Test ind NC



Auxiliary contact timing diagrams OS200 – OS800



OS200-800 ON and OFF-fuctions of main and auxiliary contacts



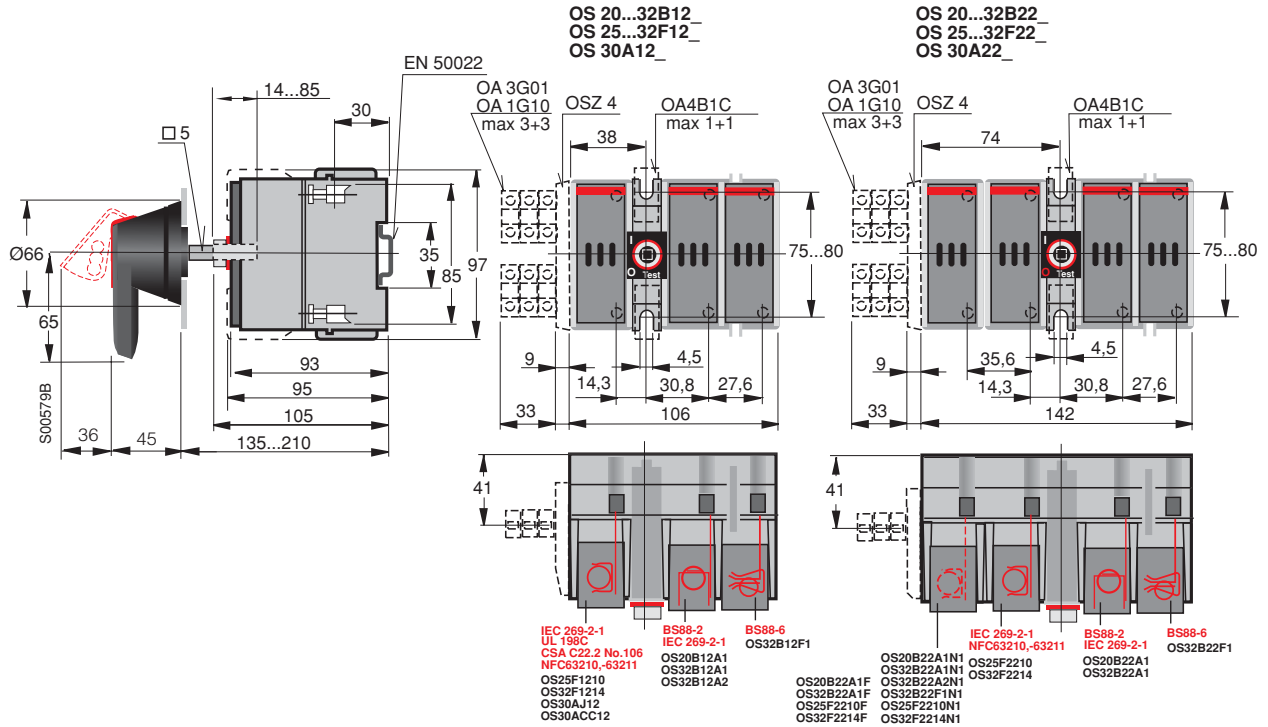


Approximate dimensions

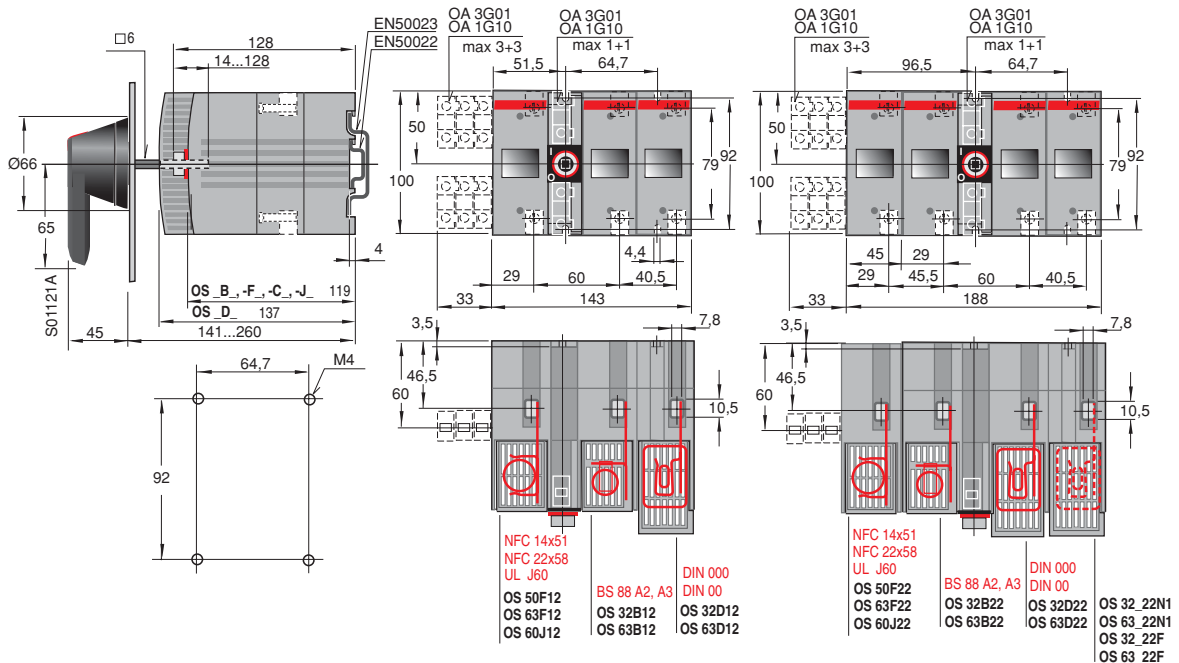
Fusible disconnect switches

OS30_ - OS60_

OS30A



OS60



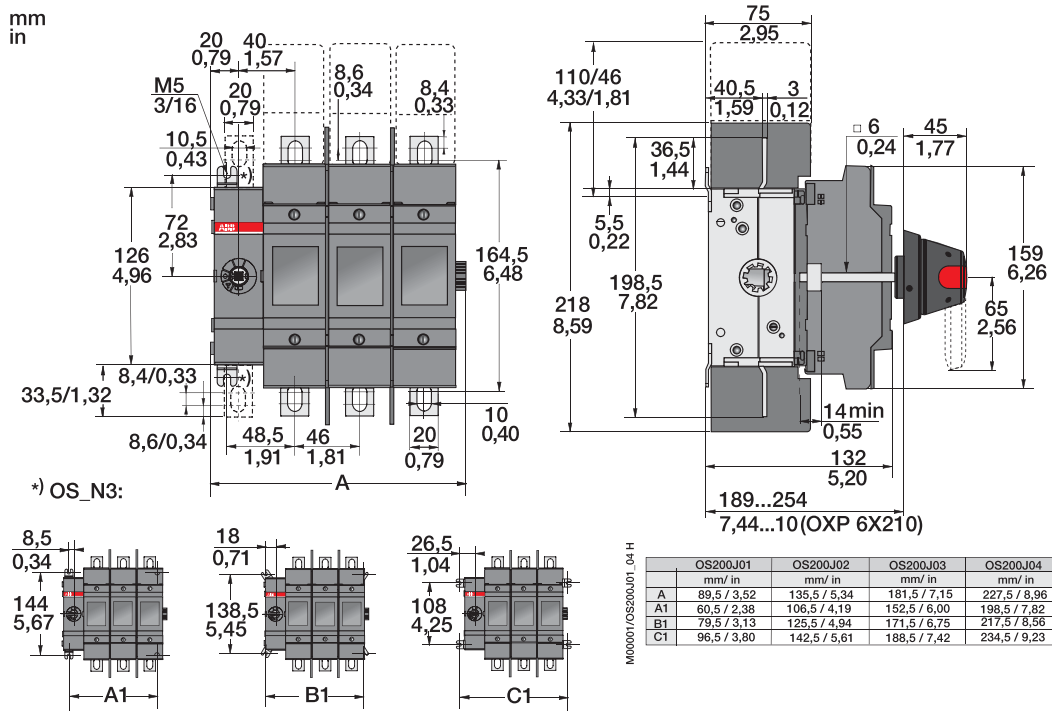


Approximate dimensions

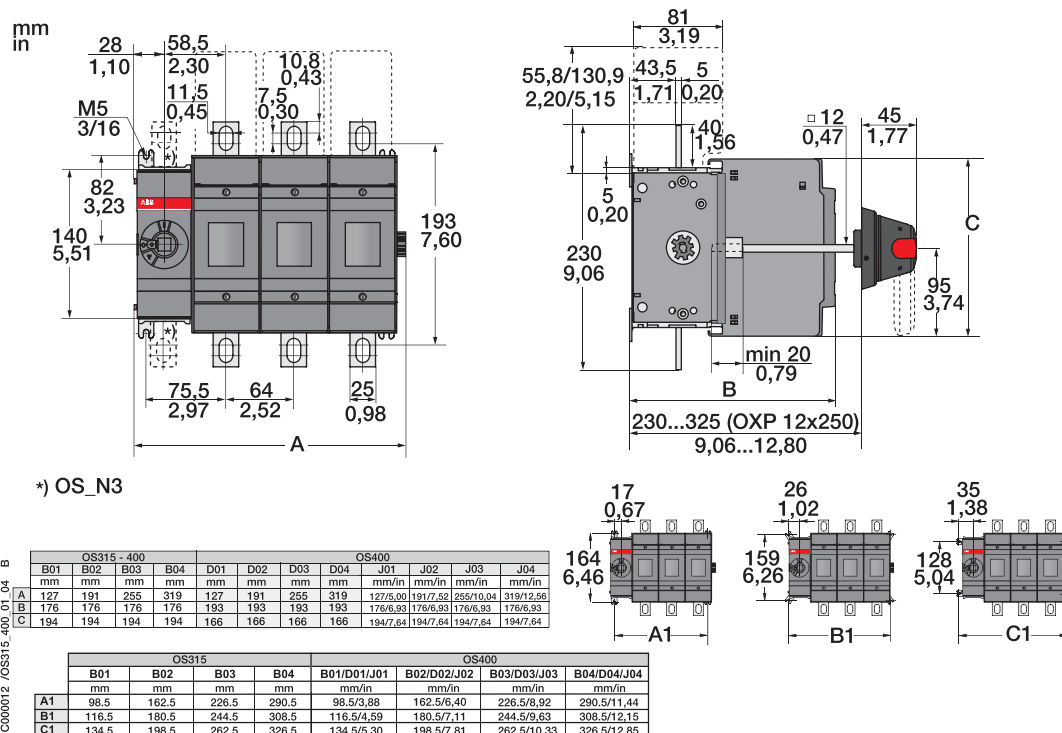
Fusible disconnect switches

OS200 – OS400

OS200J



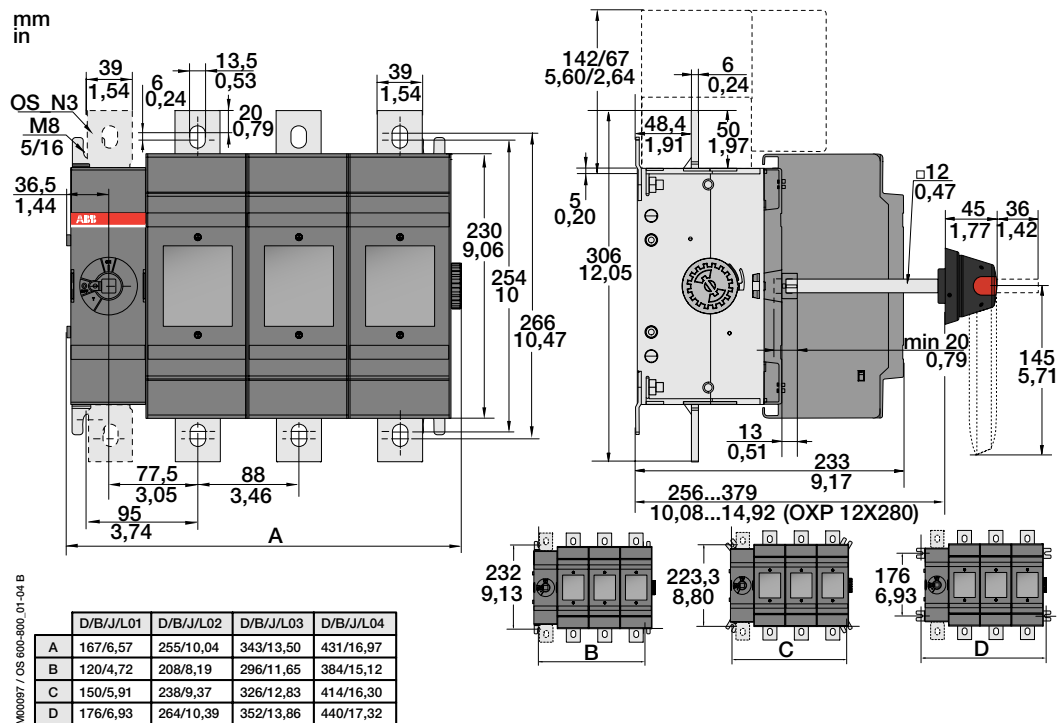
OS400J



Approximate dimensions Fusible disconnect switches OS600 – OS800



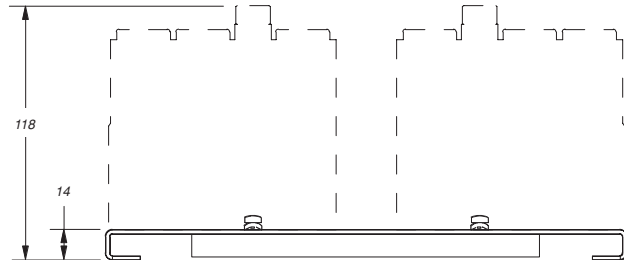
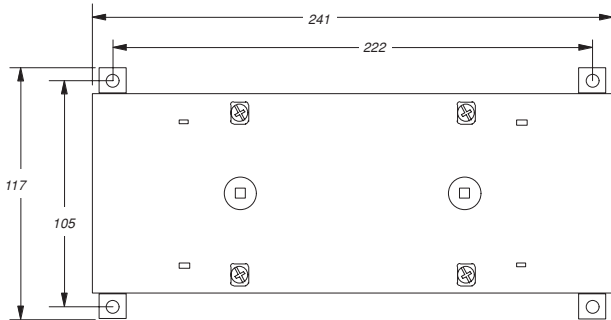
OS600J03-OS800L03





Approximate dimensions 30A Conversion mechanisms

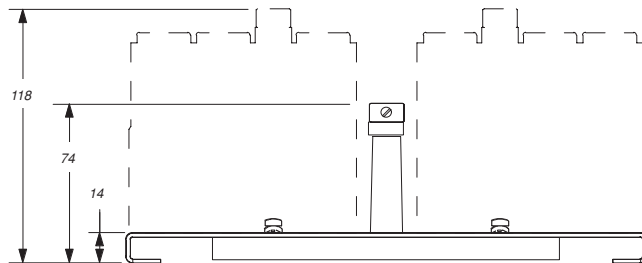
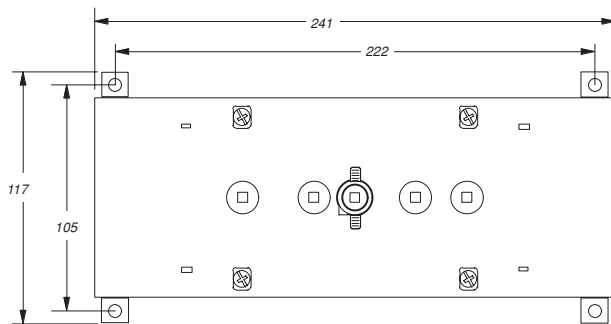
6 pole — OWP5DS1



For installation of 6 or 8 pole mechanisms, the following minimum and maximum mounting dimensions are given below.

OWP5DS1 in combination with:	Minimum mm	Maximum mm
OS30_	140	N/A

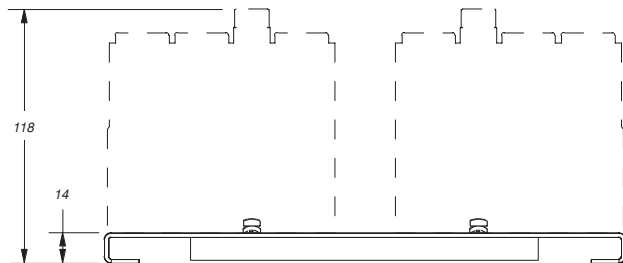
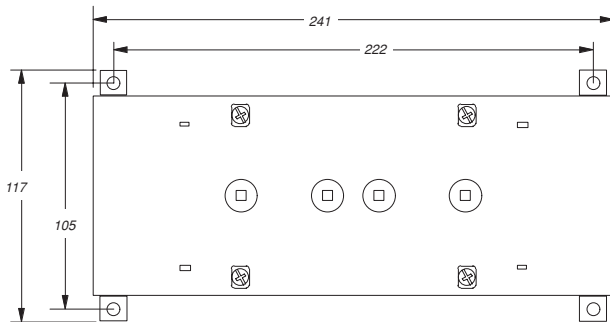
Transfer switch — OWC5DSH1



For installation of 6 or 8 pole mechanisms, the following minimum and maximum mounting dimensions are given below.

OWC5DSH1 in combination with:	Minimum mm	Maximum /mm
OS30_	140	N/A

Mechanical interlock — OWM5DS1



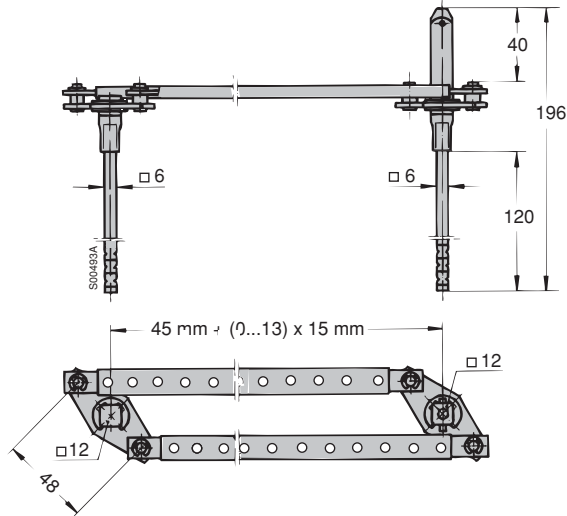
For installation of 6 or 8 pole mechanisms, the following minimum and maximum mounting dimensions are given below.

OWM5DS1 in combination with:	Minimum mm	Maximum mm
OS30_	140	N/A

Approximate dimensions 60A – 100A Conversion mechanisms



6 or 8 pole — OESA-ZW2



For installation of 6 or 8 pole and transfer mechanisms, the following minimum and maximum mounting dimensions are given below.

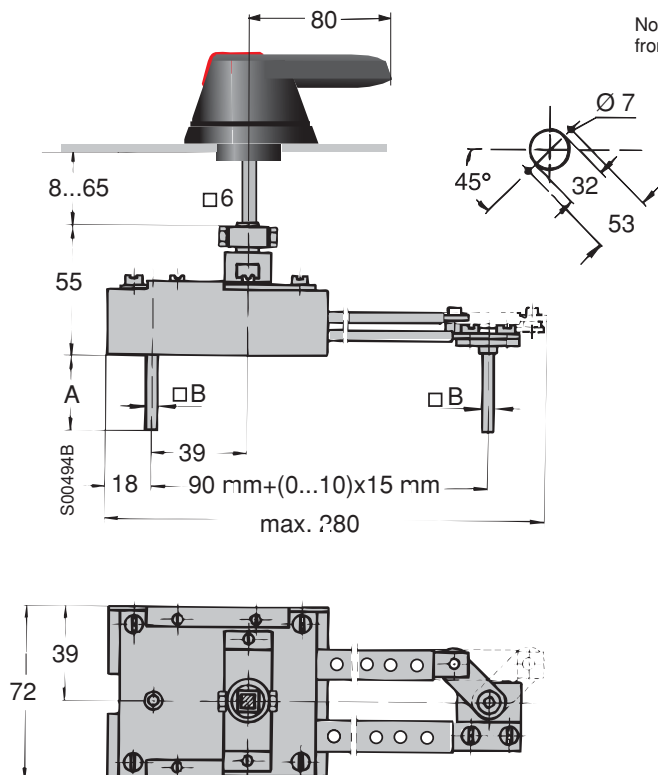
OESA-ZW2 in combination with:	Minimum mm	Maximum mm
OS60	175	275
OS100	175	275

Note: Deeper enclosures will require a longer shaft, please select a 12mm shaft from page 2.25, and an OETL-ZX95 shaft extension coupler from page 2.21.

Transfer switch — OESA-ZW1

OESA-ZW1 in combination with	Minimum mm	Maximum mm
OS60	200	336
OS100	210	336

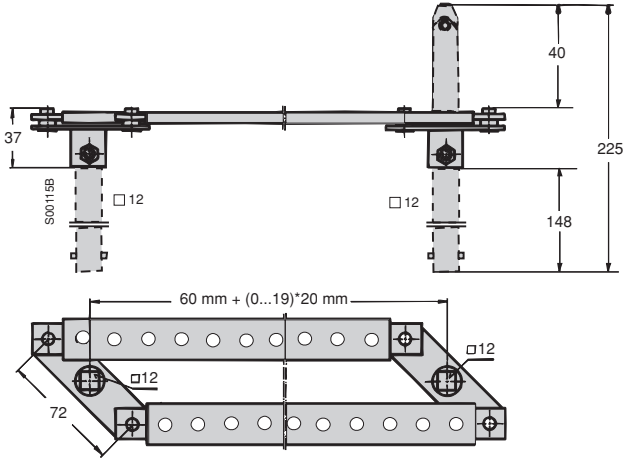
Note: Deeper enclosures will require a longer shaft, please select a 6mm shaft from page 2.19.



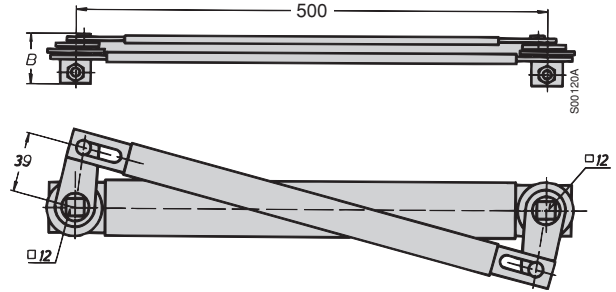


Approximate dimensions 200A – 800A Conversion mechanisms

6 or 8 pole — OETL-ZW9

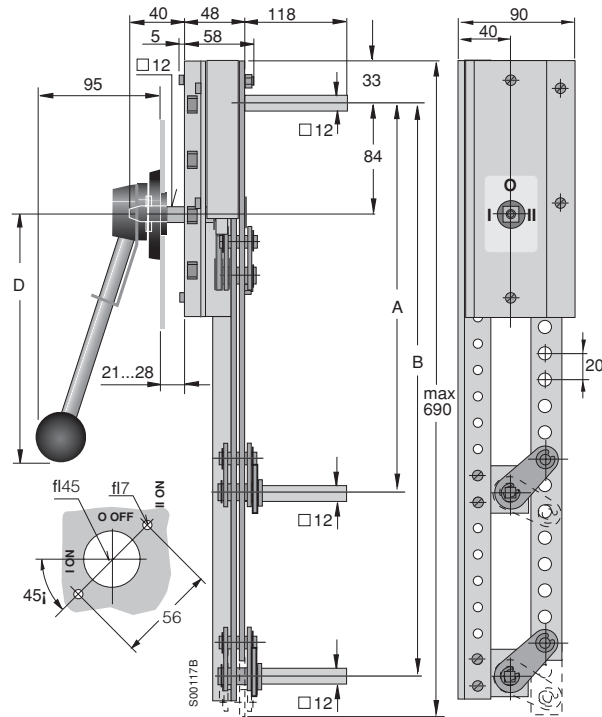


Mechanical Interlock — OETL-ZW15



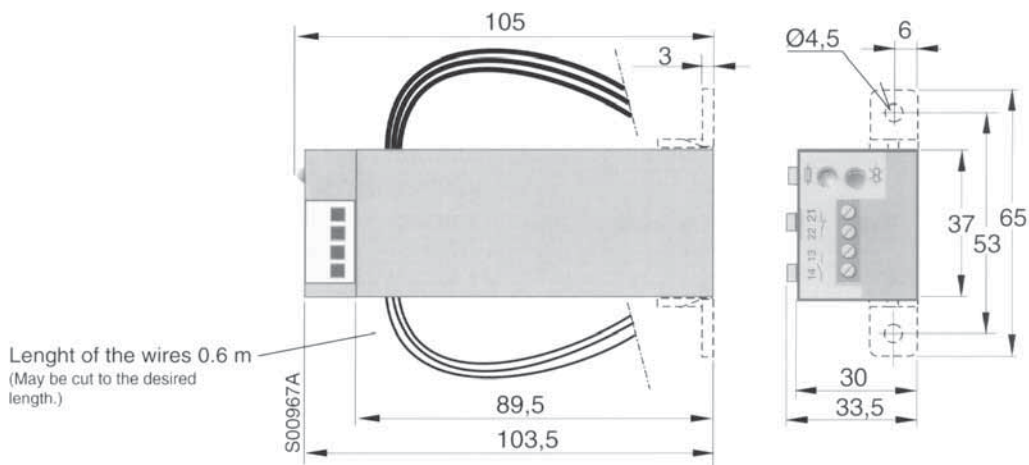
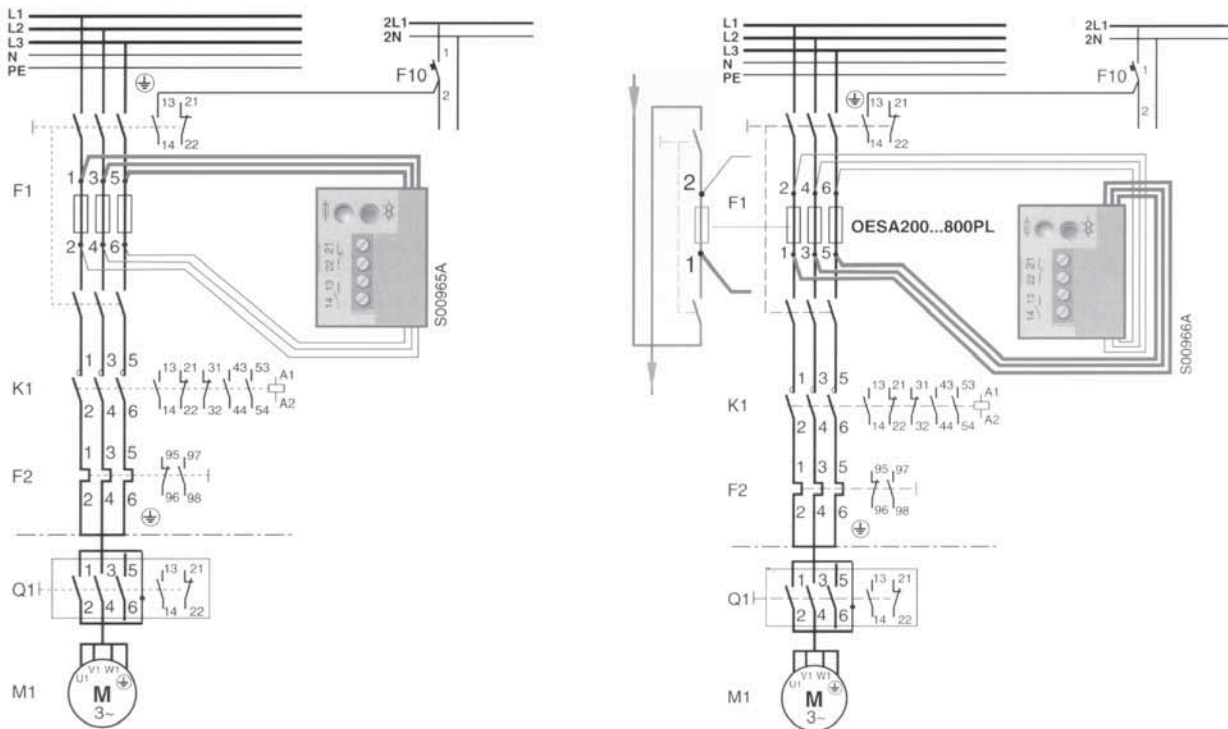
Transfer switch — OETL-ZW12

Bypass switch — OETL-ZW13



	A	B	D
OETLZW 12	210+(0...18)x20 mm		220 mm
OETLZW 13	210+(0...18)x20 mm	250+(0...18)x20 mm	320 mm

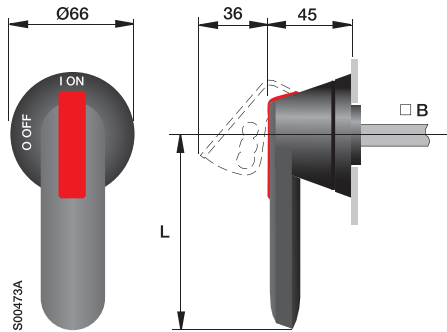
Fuse monitor Contact functions Dimension drawings





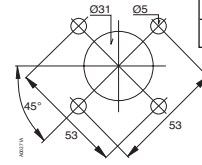
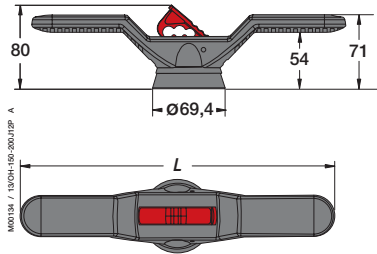
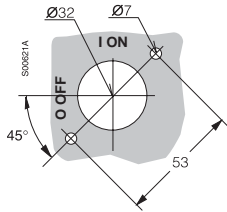
Approximate dimensions Handles

Plastic Handles:



Type	L length mm	B Shaft diameter
OH_45J5	45	5
OH_65J5	65	5
OH_45J6	46	6
OH_65J6	65	6
OH_80J6	80	6
OH_125J12	125	12
OH_145J12	145	12
OH_175J12	175	12
OH_275J12	275	12

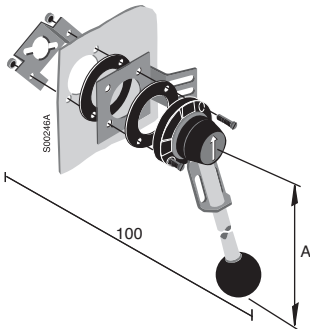
Door drilling for OH_ handles:



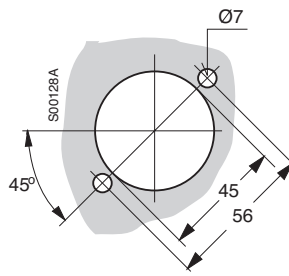
Type	L
OHB150J12P	300
OHB200J12P	400

Metallic Handles:

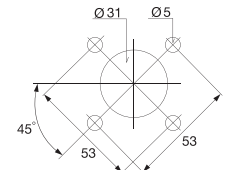
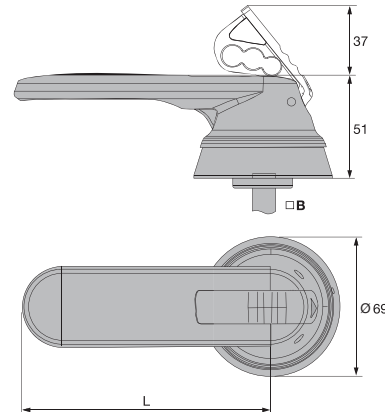
YASDA 7,8 (A=220)



Door drilling for YASDA

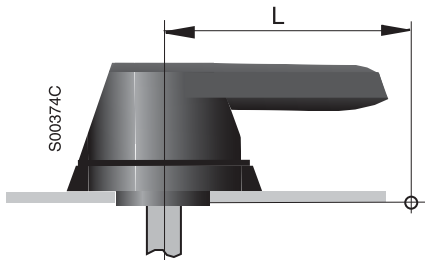


Stainless steel:



Handle type	OHM45L5	OHM65L5	OHM65L6	OHM125L12	OHM175L12	OHM275L12
L	45	65	65	125	175	275
B	5	5	6	12	12	12

Minimum distance L between the hinge and the rotating shaft

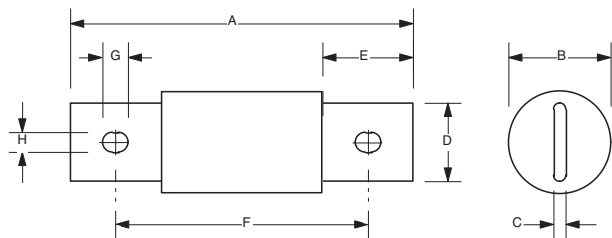


OS Sizes (A)	L (mm)	Suitable handles
30...60	60	OH_45J_, OH_65J_
60...100	80	OH_80J_
200...400	150	OH_125J12, OH_145J12
200...800	175	OH_175J12
200...800	275	OH_275J12
200...800	220	YASDA 7,8

Approximate dimensions For Fuses

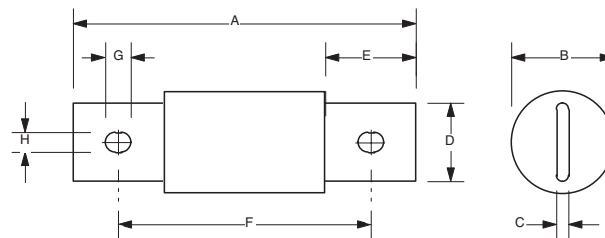


Class J (600V)



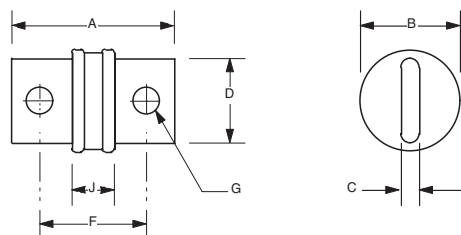
Ampere rating	A	B	C	D	E	F	G	H
1 - 30	2.25	.81	—	—	—	—	—	—
31 - 60	2.38	1.06	—	—	—	—	—	—
61 - 100	4.62	1.12	.12	.75	1	3.62	.38	.28
101 - 200	5.75	1.62	.19	1.12	1.38	4.38	.38	.28
201 - 400	7.12	2.12	.25	1.62	1.88	5.25	.53	.41
401 - 600	8.00	2.5	.38	2.00	2.12	6.00	.69	.53

Class L (600V)



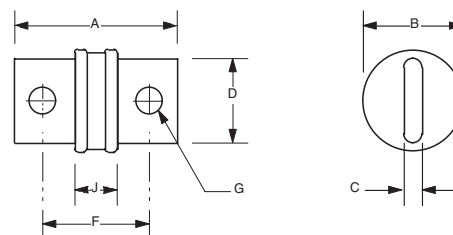
Ampere rating	A	B	C	D	E	F	G	H
200 - 600	8.62	2.00	.31	1.62	2.41	6.25	1.12	.62
601 - 800	8.62	2.50	.38	2.00	2.41	6.25	1.12	.62

Class T (300V)



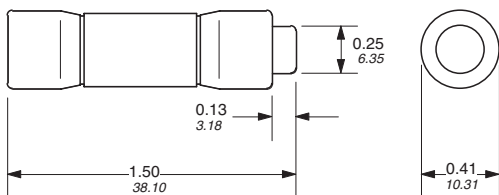
Ampere rating	A	B	C	D	F	G	J
1 - 30	.88	.41	—	—	—	—	—
31 - 60	.88	.56	—	—	—	—	—
61 - 100	2.16	.81	.12	.75	1	3.62	.38
101 - 200	2.45	1.06	.19	1.12	1.38	4.38	.38
201 - 400	2.75	1.33	.25	1.62	1.88	5.25	.53
401 - 600	3.06	1.62	.31	2.00	2.12	6.00	.69
601 - 800	3.38	2.08	.38	1.75	2.22	.55	.88

Class T (600V)



Ampere rating	A	B	C	D	F	G	J
1 - 30	1.50	.56	—	—	—	—	—
35 - 60	1.56	.81	—	—	—	—	—
70 - 100	2.95	—	.12	.75	2.36	.28	1.64
110 - 200	3.25	—	.19	.88	2.50	.34	1.66
225 - 400	3.62	—	.25	1.00	2.69	.41	1.64
450 - 600	3.98	—	.31	1.25	2.95	.48	1.78
601 - 800	4.37	—	.38	1.75	3.17	.55	1.88

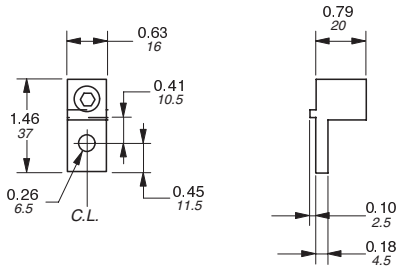
Class CC (600V) — Rejection type



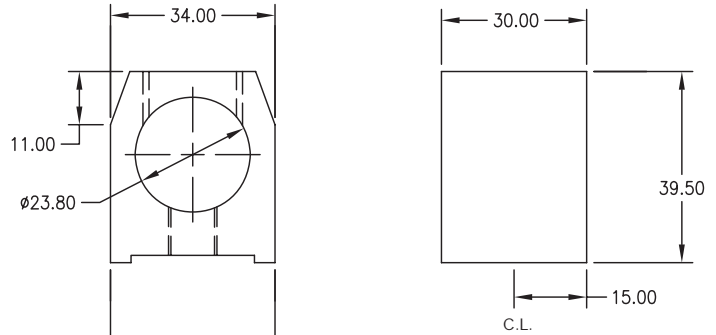


Approximate dimensions For Terminal lugs

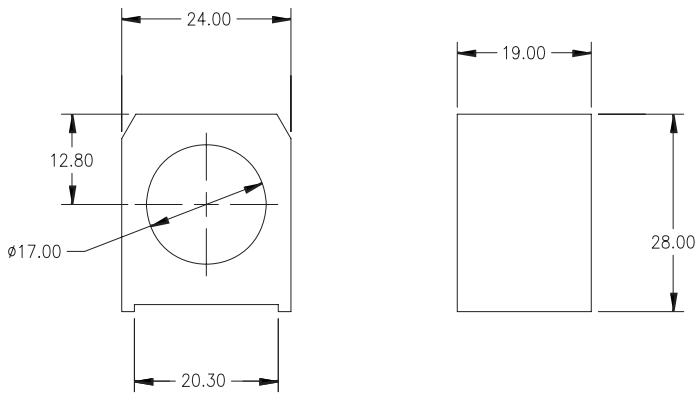
OZXA-24 — for use with 100A switches



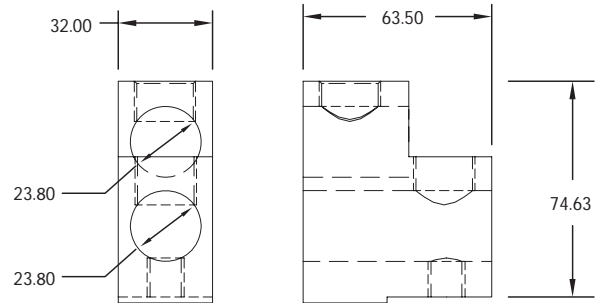
OZXA-400 — for use with 400A switches



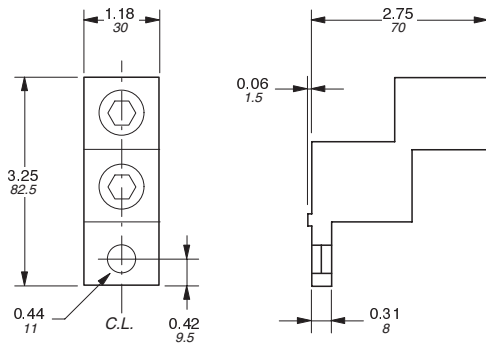
OZXA-200 — for use with 200A switches



OZXA-800 — for use with 800A switches



OZXA-33 — for use with 400A switches





SafeLine
 Compact, heavy duty
 Enclosed disconnect switches
 16A – 1200A Non-fusible
 30A – 800A Fusible

SafeLine enclosed disconnect switches are designed to meet customer requirements in terms of safety, ease of installation, space savings and operational convenience. They are available in a wide range of ampere ratings, are CSA approved and EEMAC rated to satisfy rugged industrial environments.

Index

General information3.1 – 3.3
 Non-fusible3.4 – 3.7
 Fusible.....3.8 – 3.10
 Technical information & dimensions.....3.11 – 3.12

NF 16 1 - 3P 11

Disconnect switch type

- NF = Non-fusible
- FJ = Fused Class J, (30A – 600A)
- FL = Fused Class L, (800A)

Disconnect switch frame size

16	32	45	63
30	60	100	200
400	600	800	1200

Environmental rating

- 1 = Type 1
- 2 = Type 12
- 4 = Type 4
- X = Type 4X stainless steel

Accessories

- 10 = 1 N.O. auxiliary contact
- 01 = 1 N.C. auxiliary contact
- 11 = 1 N.O. & 1 N.C. auxiliary contacts
- 22 = 2 N.O. & 2 N.C. auxiliary contacts
- N = Neutral terminal

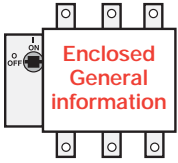
Poles or conversion mechanisms

- 2P = 2 poles pistol handle
- 3P = 3 poles pistol handle
- 4P = 4 poles pistol handle
- 6P = 6 poles pistol handle
- 3S = 3 pole selector handle
- 3T = 3 pole transfer, side by side
- 3C = 3 pole transfer, double stack



Padlockable

Handles can be padlocked in the "OFF" position with up to three padlocks: Additionally, the switch mechanism can be directly padlocked in the "OFF" position when the door is open. NOTE: Some handles can be ordered with the ability to padlock in both the "ON" & "OFF" positions, please consult your ABB sales office.



EEMAC environmental ratings for enclosed disconnect switches

Introduction

An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental capabilities follows.

Refer to EEMAC Standards Publication for more information regarding applications, features and design tests.

Individual EEMAC product Standards Publications or third party certification standards may contain additional requirements for product testing and performance.

Definitions pertaining to nonhazardous locations



Type 1

Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt.



Type 4X

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.



Type 3R

Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet and damage from external ice formation.



Type 12

Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.



Type 4

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.



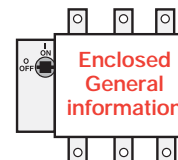
Type 13

Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant.

Legend

- Indoors
- Outdoors
- Water
- Dirt/dust
- Corrosion

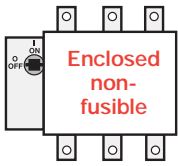
IP environmental ratings for enclosed disconnect switches



IP ratings

indicate the degree of protection against dust, liquids and impacts. The IP degrees of protection are defined by the French standard NFC 20-010. To rate a device's degrees of protection, the letters IP are followed by up to three numbers. These numbers are defined as follows:

first number protection against solid objects	second number protection against liquids	third number protection against mechanical impacts
<p>IP 0 no protection</p>	<p>IP 0 no protection</p>	<p>IP 0 no protection</p>
<p>1 protected against solid objects over 50mm (e.g. accidental touch by hands.)</p>	<p>1 protected against vertically falling rain or condensation</p>	<p>1 impact 0.225 joule 150g falling from 15 cm</p>
<p>2 protected against solid objects over 12 mm (e.g. fingers)</p>	<p>2 protected against direct sprays of water up to 15° from vertical</p>	<p>2 impact 0.375 joule 250g falling from 15 cm</p>
<p>3 protected against solid objects over 2.5 mm (tools & wires)</p>	<p>3 protected against sprays to 60° from vertical</p>	<p>3 impact 0.50 joule 250g falling from 20cm</p>
<p>4 protected against solid objects over 1mm (small tools & small wires)</p>	<p>4 protected against water sprayed from all directions</p>	<p>5 impact 2.00 joule 500g falling from 40 cm</p>
<p>5 protected against dust (no harmful deposit)</p>	<p>5 protected against low pressure jets of water from all directions</p>	<p>7 impact 6.00 joule 1.5kg falling from 40 cm</p>
<p>6 totally protected against dust</p>	<p>6 protected from strong jets of water (e.g. for use on ship decks)</p>	<p>9 impact 20.00 joule 5 kg falling from 40 cm</p>
	<p>7 protected against the effects of immersion between 15cm and 1m</p>	



Enclosed manual motor controllers 16A – 80A



NF321-3P



EOT16U3P3-S



EOT16U4P3-P

3 Pole, 600V, 16A – 80A — CSA C22.2 No. 14 enclosed manual motor controllers

Metal Enclosure type

CSA C22.2 No. 14 amp rating	HP		1		12		4		4X Stainless	
	480V	600V	Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	16	10	10	NF161-3S		NF162-3S		—		—
	16	10	10	NF161-3P		NF162-3P		NF164-3P		NF16X-3P
	40	20	25	NF321-3S		NF322-3S		—		—
	40	20	25	NF321-3P		NF322-3P		NF324-3P		NF32X-3P
	60	30	30	NF451-3S		NF452-3S		—		—
	60	30	30	NF451-3P		NF452-3P		NF454-3P		NF45X-3P
	80	40	40	NF631-3S		NF632-3S		—		—
	80	40	40	NF631-3P		NF632-3P		NF634-3P		NF63X-3P

Plastic Enclosure type

CSA C22.2 No. 14 amp rating	HP		3R, 12				4, 4X, 12			
	480V	600V	Catalog number	Aux. contact	Handle Type	List price	Catalog number	Aux. contact	Handle Type	List price
	16	10	10	1NO	Selector		EOT16U3P4-1P	1NO	Pistol	
	16	10	10	—	Selector		EOT16U3P4-P	—	Pistol	
	40	20	25	1NO	Selector		EOT32U3P4-1P	1NO	Pistol	
	40	20	25	—	Selector		EOT32U3P4-P	—	Pistol	
	60	30	30	1NO	Selector		EOT45U3P4-1P	1NO	Pistol	
	60	30	30	—	Selector		EOT45U3P4-P	—	Pistol	

Accessories for eOT16 to eOT45

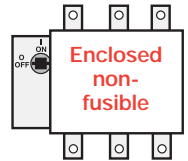
Auxiliary contacts *Maximum number of auxiliary contacts 2NO + 1NC

AC rated voltage	Description	AC amp rating	Catalog number	List price
600	NO, mounts on right side of the switch only	10	OA1G10	
600	NC, mounts on left side of the switch only	10	OA1G01	
600	4th poles for eOT16 and eOT32 * Only one additional pole per switch			
600	4th pole	40	OTPS32EP	
600	4th pole, late-break / early-make function	40	OTPL32EP	
600	4th poles for eOT45 * Only one additional pole per switch			
600	4th pole	80	OTPS63EP	
600	4th pole, late-break / early-make function	80	OTPL63EP	

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle by adding the "Y" suffix to the end of the catalog number. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.

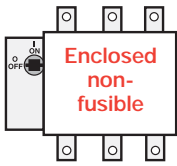
EXAMPLE: A red/yellow selector handle for an NF161-3S can be substituted for the black selector handle by using the "Y" suffix at the end, new catalog NF161-3SY.

Enclosed non-fusible disconnect switches 16A – 1200A



3 Pole, 600V, 30A – 2000A — CSA C22.2 No. 4 enclosed switches

CSA C22.2 No. 4 amp rating		Metal Enclosure type									
		HP		1		12		4		4X Stainless	
		480V	600V	Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	30	20	30	NF301-3P		NF302-3P		NF304-3P		NF30X-3P	
	60	40	40	NF601-3P		NF602-3P		NF604-3P		NF60X-3P	
	100	50	50	NF1001-3P		NF1002-3P		NF1004-3P		NF100X-3P	
	200	150	200	NF2001-3P		NF2002-3P		NF2004-3P			
	400	250	350	NF4001-3P		NF4002-3P		NF4004-3P			
	600	400	500	NF6001-3P		NF6002-3P		NF6004-3P			
	800	500	500	NF8001-3P		NF8002-3P		NF8004-3P			
1200	-	-	NF12001-3P		NF12002-3P		NF12004-3P				



Enclosed non-fusible disconnect switches

30 - 1200A

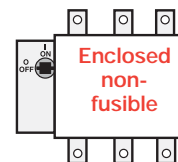
Other configurations

CSA General purpose amp rating	Option (Descriptions found on page 3.17)	Enclosure type							
		1		12		4		4XStainless	
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
30	4 pole switch 6 pole switch Transfer switch	NF301-4P		NF302-4P		NF304-4P		NF30X-4P	
		NF301-6P		NF302-6P		NF304-6P		NF30X-6P	
		NF301-3T		NF302-3T		NF304-3T		NF30X-3T	
60	4 pole switch 6 pole switch Transfer switch	NF601-4P		NF602-4P		NF604-4P		NF60X-4P	
		NF601-6P		NF602-6P		NF604-6P		NF60X-6P	
		NF601-3T		NF602-3T		NF604-3T		NF60X-3T	
100	4 pole switch 6 pole switch Transfer switch	NF1001-4P		NF1002-4P		NF1004-4P		NF100X-4P	
		NF1001-6P		NF1002-6P		NF1004-6P		NF100X-6P	
		NF1001-3T		NF1002-3T		NF1004-3T		NF100X-3T	
200	2 pole switch 4 pole switch 6 pole switch Transfer switch	NF2001-2P		NF2002-2P		NF2004-2P		NF200X-2P	
		NF2001-4P		NF2002-4P		NF2004-4P		NF200X-4P	
		NF2001-6P		NF2002-6P		NF2004-6P		NF200X-6P	
		NF2001-3C		NF2002-3C		NF2004-3C		NF200X-3C	
400	2 pole switch 4 pole switch 6 pole switch Transfer switch	NF4001-2P		NF4002-2P		NF4004-2P		NF400X-2P	
		NF4001-4P		NF4002-4P		NF4004-4P		NF400X-4P	
		NF4001-6P		NF4002-6P		NF4004-6P		NF400X-6P	
		NF4001-3C		NF4002-3C		NF4004-3C		NF400X-3C	
600	2 pole switch 4 pole switch 6 pole switch Transfer switch	NF6001-2P		NF6002-2P		NF6004-2P		NF600X-2P	
		NF6001-4P		NF6002-4P		NF6004-4P		NF600X-4P	
		NF6001-6P		NF6002-6P		NF6004-6P		NF600X-6P	
		NF6001-3C		NF6002-3C		NF6004-3C		NF600X-3C	
800	2 pole switch 4 pole switch 6 pole switch Transfer switch	NF8001-2P		NF8002-2P		NF8004-2P		NF800X-2P	
		NF8001-4P		NF8002-4P		NF8004-4P		NF800X-4P	
		NF8001-6P		NF8002-6P		NF8004-6P		NF800X-6P	
		NF8001-3T		NF8002-3T		NF8004-3T		NF800X-3T	
1200	2 pole switch 4 pole switch 6 pole switch Transfer switch	NF12001-2P		NF12002-2P		NF12004-2P		NF1200X-2P	
		NF12001-4P		NF12002-4P		NF12004-4P		NF1200X-4P	
		NF12001-6P		NF12002-6P		NF12004-6P		NF1200X-6P	
		NF12001-3T		NF12002-3T		NF12004-3T		NF1200X-3T	

① Please consult ABB sales office for additional information.

② ⚡ = Three poles

Accessories for enclosed non-fusible disconnect switches



Auxiliary contacts

For use on:	Contact configuration	Installation suffix	Installed list price adder
16A – 100A	1 N.O.	add "10" suffix	
	1 N.C.	add "01" suffix	
	1 N.O. & 1 N.C.	add "11" suffix	
200A – 1200A	1 N.O. & 1 N.C.	add "11" suffix	
	2 N.O. & 2 N.C.	add "22" suffix	

Accessories[ⓐ]

For use on:	Description	Installation suffix	Installed list price adder
30A – 100A	Neutral block	N	
200 A	Neutral block	N	
400 A	Neutral block	N	
600 A	Neutral block	N	
800 A	Neutral block	N	

Ground lugs

All enclosed switches are provided with a standard integral ground lug.

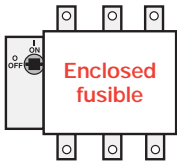
Switch size	Ground lug Wire size
16A – 100A	(2) #14
200A – 400A	#6 – 250 mcm
600A – 1200A	#2 – 600 mcm

Switch ratings, 16 – 2000 Amps, 600V

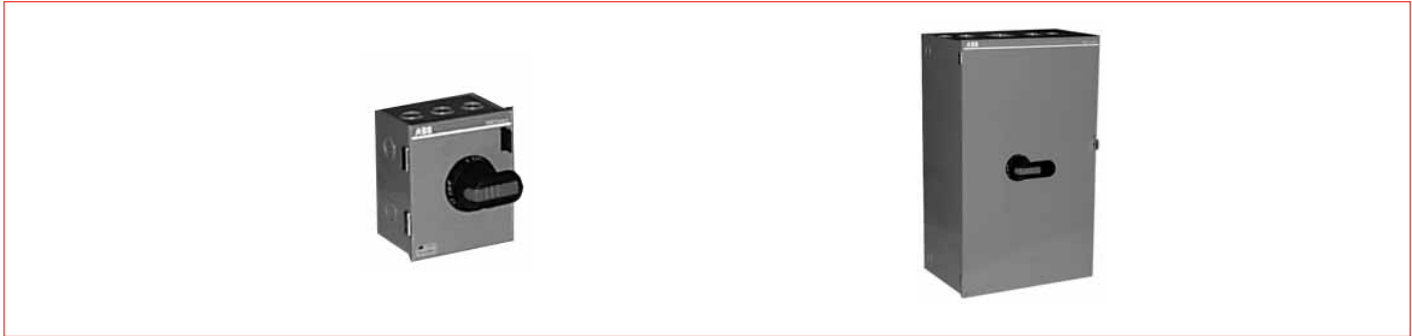
CSA General purpose amp rating	Maximum horsepower rating						Wire size for terminal lugs	For wire type	Approval
	Single phase		Three phase						
	120V	240V	200V – 208V	240V	480V	600V			
16	1	2	3	5	10	10	#18 – #8	Cu	CSA ⓐ
40	2	5	10	10	20	25	#18 – #8	Cu	CSA ⓐ
60	2	5	15	15	30	30	#14 – #1	Cu	CSA ⓐ
80	2	5	20	20	40	40	#14 – #1	Cu	CSA ⓐ
30	2	5	10	10	20	30	#14 – #4	Cu	CSA ⓐ
60	3	7.5	20	20	40	40	#14 – #4	Cu	CSA ⓐ
100	5	15	25	30	50	50	#8 – 1/0	Cu	CSA ⓐ
200	—	—	60	75	150	200	#6 – 300 kcmil	Cu/Al	CSA ⓐ
400	—	—	100	125	250	350	#2 – 600 kcmil	Cu/Al	CSA ⓐ
600	—	—	150	200	400	500	(2) #2 – 600 kcmil	Cu/Al	CSA ⓐ
800	—	—	200	250	500	500	(2) #2 – 600 kcmil	Cu/Al	CSA ⓐ
1200	—	—	—	—	—	—	(4) #2 – 600 kcmil	Cu/Al	CSA ⓐ

ⓐ CSA C22.2 No. 14

ⓑ CSA C22.2 No. 4



Enclosed fusible disconnect switches 30A – 800A



3 Pole^①, 600V, 30A - 800A

CSA general purpose amp rating	Fuse type	Enclosure type								
		1		12		4		4X Stainless		
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price	
	30	J	FJ301-3P		FJ302-3P		FJ304-3P		FJ30X-3P	
	60	J	FJ601-3P		FJ602-3P		FJ604-3P		FJ60X-3P	
	100	J	FJ1001-3P		FJ1002-3P		FJ1004-3P		FJ100X-3P	
	200	J	FJ2001-3P		FJ2002-3P		FJ2004-3P		FJ200X-3P	
	400	J	FJ4001-3P		FJ4002-3P		FJ4004-3P		FJ400X-3P	
	600	J	FJ6001-3P		FJ6002-3P		FJ6004-3P		FJ600X-3P	
	800	L	FL8001-3P		FL8002-3P		FL8004-3P		FL800X-3P	

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle if desired. Please add the "Y" handle suffix code at the end of catalog number. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.

EXAMPLE: A red/yellow pistol handle for an FJ301-3P can be substituted for the black pistol handle by adding the "Y" suffix at the end, new catalog number: FJ301-3PY.

Switch ratings

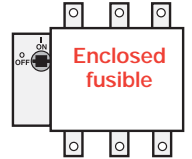
CSA general purpose amp rating	Maximum horsepower rating								Wire size for terminal lugs	For wire type	Approval ^①
	Single phase			Three phase							
	120V	200V	240V	200V	208V	240V	480V	600V			
30	2	3	5	5	7.5	7.5	15	20	#18 – #8	Cu	CSA
60	3	7.5	10	15	15	15	30	50	#14 – #4	Cu	CSA
100	5	10	15	25	25	30	60	75	#14 – 2/0	Cu/Al	CSA
200	—	—	—	50	50	60	125	150	#6 – 300 kcmil	Cu/Al	CSA
400	—	—	—	100	125	125	250	350	#2 – 600 kcmil	Cu/Al	CSA
600	—	—	—	150	150	200	400	500	(2) #2 – 600 kcmil	Cu/Al	CSA
800	—	—	—	200	200	250	500	500	(2) #2 – 600 kcmil	Cu/Al	CSA

^① Fusible switches are CSA approved to the CSA C22.2 No. 4 standard.

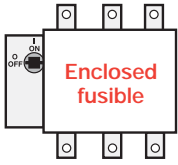
Enclosed fusible disconnect switches

30A – 800A

Other configurations



CSA general purpose amp rating	Option	Enclosure type							
		1		12		4		4X Stainless	
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
30	4 pole switch	FJ301-4P		FJ302-4P		FJ304-4P		FJ30X-4P	
	6 pole switch	FJ301-6P		FJ302-6P		FJ304-6P		FJ30X-6P	
60	4 pole switch	FJ601-4P		FJ602-4P		FJ604-4P		FJ60X-2P	
	6 pole switch	FJ601-6P		FJ602-6P		FJ604-6P		FJ60X-4P	
100	2 pole switch	FJ1001-2P		FJ1002-2P		FJ1004-2P		FJ60X-6P	
	4 pole switch	FJ1001-4P		FJ1002-4P		FJ1004-4P		FJ100X-2P	
	6 pole switch	FJ1001-6P		FJ1002-6P		FJ1004-6P		FJ100X-4P	
200	2 pole switch	FJ2001-2P		FJ2002-2P		FJ2004-2P		FJ100X-6P	
	4 pole switch	FJ2001-4P		FJ2002-4P		FJ2004-4P		FJ200X-2P	
	6 pole switch	FJ2001-6P		FJ2002-6P		FJ2004-6P		FJ200X-4P	
400	2 pole switch	FJ4001-2P		FJ4002-2P		FJ4004-2P		FJ200X-6P	
	4 pole switch	FJ4001-4P		FJ4002-4P		FJ4004-4P		FJ400X-2P	
	6 pole switch	FJ4001-6P		FJ4002-6P		FJ4004-6P		FJ400X-4P	
600	2 pole switch	FJ6001-2P		FJ6002-2P		FJ6004-2P		FJ400X-6P	
	4 pole switch	FJ6001-4P		FJ6002-4P		FJ6004-4P		FJ600X-2P	
	6 pole switch	FJ6001-6P		FJ6002-6P		FJ6004-6P		FJ600X-4P	
800	2 pole switch	FL8001-2P		FL8002-2P		FL8004-2P		FJ600X-6P	
	4 pole switch	FL8001-4P		FL8002-4P		FL8004-4P		FL800X-2P	
	6 pole switch	FL8001-6P		FL8002-6P		FL8004-6P		FL800X-4P	



Accessories

Enclosed fusible disconnect switches

Auxiliary contacts

For use on:	Contact configuration	Installation suffix	Installed list price adder
30A	1 N.O. + 1 N. C.	add "11" suffix	
	2 N.O. + 2 N.C.	add "22" suffix	
60A – 100A	1 N.O. + 1 N.C.	add "11" suffix	
	2 N.O. + 2 N.C.	add "22" suffix	
200A – 800A	1 N.O. & 1 N.C.	add "11" suffix	
	2 N.O. & 2 N.C.	add "22" suffix	

Accessories

For use on:	Description	Installation suffix	Installed list price adder
30A – 100A	Neutral block	N	
200A	Neutral block	N	
400A	Neutral block	N	
600A	Neutral block	N	
800A	Neutral block	N	

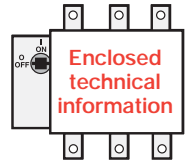
Ground lugs

All enclosed switches are provided with a standard integral ground lug.

Switch size	Ground lug wire size
30 – 100	(2) # 14 – 4
200	#14 – 2/0
400 – 800	#6 – 300 mcm

Other configuration descriptions

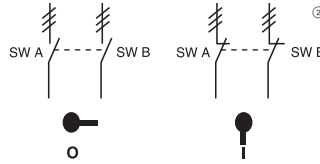
Enclosed disconnect switches



Conversion mechanisms

6 pole

6 pole mechanism allows two switches controlled by one handle to open or close simultaneously.

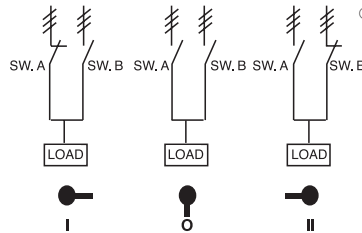


	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Transfer^①

Transfer mechanism manually transfers between two power sources using two switches and a center "OFF" position.

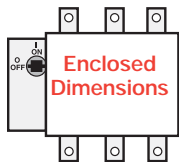


	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

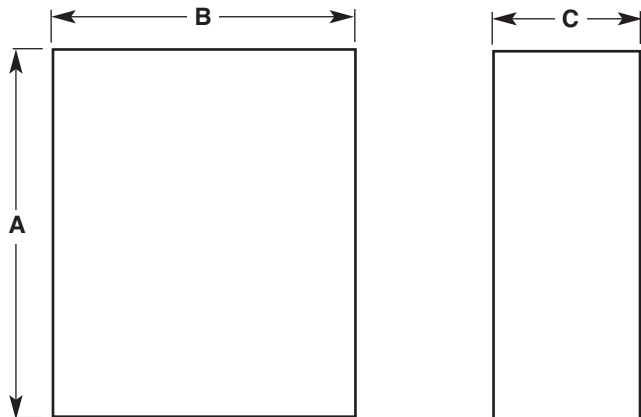
^① Transfer and bypass enclosed switches include the load side bussed or cabled together, and all switches come standard with ground lugs.

^② ≡ = Three poles



Safe Line Dimensions^{①②} 600V 16-1200A Amps

Dimensions for metal and stainless steel enclosures Type 1, 12, 4 and 4X



Non-fusible switches

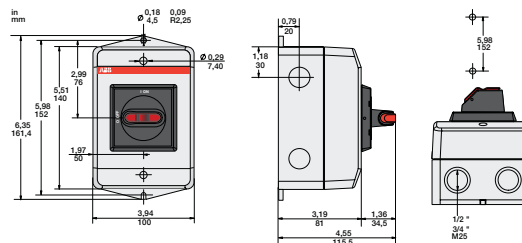
	A Height	B Width	C Depth
NF16, NF32,	6	5	4
NF30, NF45, NF60, NF63	10	5	4
NF100	16	6	4
NF200	24	14	8
NF400	36	24	10
NF600	36	24	10
NF800	48	36	14
NF1200	48	24	14

Fusible switches

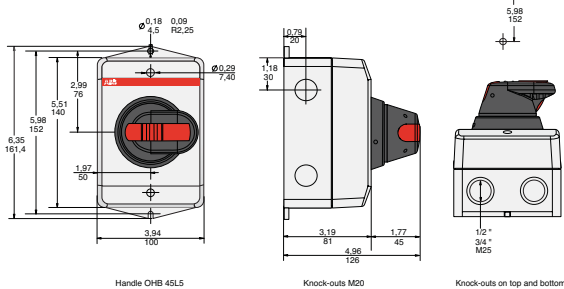
	A Height	B Width	C Depth
F30	10	8	6
F60	10	8	6
F100	16	10	6
F200	24	14	8
F400	36	24 </td <td>10</td>	10
F600	36	24	10
F800	48	36	14

Dimensions for eOT

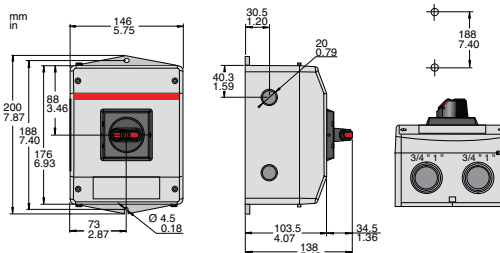
eOT16_S, eOT32_S (enclosure size 1)



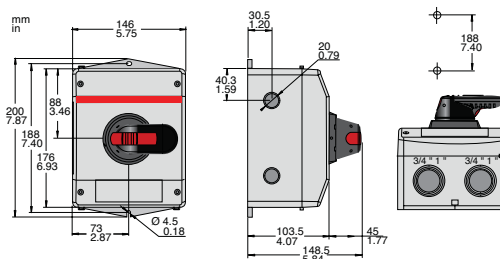
eOT16_P, eOT32_P (enclosure size 1)



eOT45U_S (enclosure size 2)



eOT45U_P (enclosure size 2)



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CXBY68140.....	1.16	FJ302-3P.....	3.8	FL8001-3P.....	3.8
CXBY68306.....	1.16	FJ302-4P.....	3.9	FL8001-4P.....	3.9
CXBY68362.....	2.11	FJ302-6P.....	3.9	FL8001-6P.....	3.9
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CXBY68794.....	2.11	FJ304-6P.....	3.9	FL8002-4P.....	3.9
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DSK8TM	1.21	FJ30X-4P	3.9	FL8004-2P.....	3.9
EOT16U3P3-1S.....	3.4	FJ30X-6P.....	3.9	FL8004-3P.....	3.8
EOT16U3P3-S.....	3.4	FJ4001-2P.....	3.9	FL8004-4P.....	3.9
EOT16U4P4-1P.....	3.4	FJ4001-3P.....	3.8	FL8004-6P.....	3.9
EOT16U4P4-P.....	3.4	FJ4001-4P.....	3.9	FL800X-2P	3.9
EOT32U3P3-1S.....	3.4	FJ4001-6P.....	3.9	FL800X-3P	3.8
EOT32U3P3-S.....	3.4	FJ4002-2P.....	3.9	FL800X-4P.....	3.9
EOT32U4P4-1P.....	3.4	FJ4002-3P.....	3.8	FLSWM5X8AY.....	1.16
EOT32U4P4-P.....	3.4	FJ4002-4P.....	3.9	FPMH3.5X12X-TX15.....	1.21
EOT45U3P3-1S.....	3.4	FJ4002-6P.....	3.9	FPMH5X14X-TORX.....	1.21
EOT45U3P3-S.....	3.4	FJ4004-2P.....	3.9	NF1001-3P	3.5
EOT45U4P4-1P.....	3.4	FJ4004-3P.....	3.8	NF1001-3T	3.6
EOT45U4P4-P.....	3.4	FJ4004-4P.....	3.9	NF1001-4P.....	3.6
FJ1001-2P.....	3.9	FJ4004-6P.....	3.9	NF1001-6P.....	3.6
FJ1001-3P.....	3.8	FJ400X-2P	3.9	NF1002-3P	3.5
FJ1001-4P.....	3.9	FJ400X-3P	3.8	NF1002-3T	3.6
FJ1001-6P.....	3.9	FJ400X-4P	3.9	NF1002-4P	3.6
FJ1002-2P.....	3.9	FJ400X-6P.....	3.9	NF1002-6P.....	3.6
FJ1002-3P.....	3.8	FJ6001-2P.....	3.9	NF1004-3P.....	3.5
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FJ1002-6P.....	3.9	FJ6001-4P.....	3.9	NF1004-4P	3.6
FJ1004-2P.....	3.9	FJ6001-6P.....	3.9	NF1004-6P.....	3.6
FJ1004-3P.....	3.8	FJ6002-2P.....	3.9	NF100X-3P	3.5
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FJ1004-6P.....	3.9	FJ6002-4P.....	3.9	NF100X-4P.....	3.6
FJ100X-2P	3.9	FJ6002-6P.....	3.9	NF100X-6P.....	3.6
FJ100X-3P	3.8	FJ6004-2P.....	3.9	NF12001-2P	3.6
FJ100X-4P	3.9	FJ6004-3P.....	3.8	NF12001-3P	3.5
FJ100X-6P	3.9	FJ6004-4P.....	3.9	NF12001-3T	3.6
FJ2001-2P.....	3.9	FJ6004-6P.....	3.9	NF12001-4P.....	3.6
FJ2001-3P.....	3.8	FJ600X-2P	3.9	NF12001-6P.....	3.6
FJ2001-4P.....	3.9	FJ600X-3P.....	3.8	NF12002-2P.....	3.6
FJ2001-6P.....	3.9	FJ600X-4P	3.9	NF12002-3P.....	3.5
FJ2002-2P.....	3.9	FJ600X-6P.....	3.9	NF12002-3T	3.6
FJ2002-3P.....	3.8	FJ601-3P.....	3.8	NF12002-4P.....	3.6
FJ2002-4P.....	3.9	FJ601-4P.....	3.9	NF12002-6P.....	3.6
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FJ200X-2P	3.9	FJ604-4P.....	3.9	NF1200X-2P	3.6
FJ200X-3P.....	3.8	FJ604-6P.....	3.9	NF1200X-3T	3.6
FJ200X-4P.....	3.9	FJ60X-2P.....	3.9	NF1200X-4P.....	3.6
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NF162-3T	3.6	NF4001-4P	3.6	NF60X-3T	3.6
NF162-4P	3.6	NF4001-6P	3.6	NF60X-4P	3.6
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NF164-4P	3.6	NF4002-4P	3.6	NF632-3P	3.4
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NF2001-6P	3.6	NF400X-6P	3.6	NF8002-3P	3.5
NF2002-2P	3.6	NF451-3P	3.4	NF8002-3T	3.6
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NF2002-3P	3.5	NF452-3P	3.4	NF8002-6P	3.6
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NF2004-3C	3.6	NF6001-2P	3.6	NF8004-4P	3.6
NF2004-3P	3.5	NF6001-3C	3.6	NF8004-6P	3.6
NF2004-4P	3.6	NF6001-3P	3.5	NF800X-2P	3.6
NF2004-6P	3.6	NF6001-4P	3.6	NF800X-3T	3.6
NF200X-2P	3.6	NF6001-6P	3.6	NF800X-4P	3.6
NF200X-3C	3.6	NF6002-2P	3.6	NF800X-6P	3.6
NF200X-4P	3.6	NF6002-3C	3.6	OA1G01	1.14
NF200X-6P	3.6	NF6002-3P	3.5	OA1G10	1.14 - 1.21 - 2.9 - 2.11 - 3.4
NF301-3P	3.5	NF6002-4P	3.6	OA2G11	1.14
NF301-3T	3.6	NF6002-6P	3.6	OA3G01	1.14 - 1.21 - 2.9 - 2.11 - 3.4
NF301-4P	3.6	NF6004-2P	3.6	OA4B1C	2.9
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NF302-3P	3.5	NF6004-3P	3.5	OAZX1	1.14
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NF30X-4P	3.6	NF601-4P	3.6	OES400R03	2.19
NF30X-6P	3.6	NF601-6P	3.6	OES400R04	2.19
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OESA630D4PL1	2.22	OESC400K04N2	1.26	OHB4.....	2.10
OESA800D3PL1	2.22	OESC500K03	1.26	OHB45J5	1.12 - 2.8
OESA800D4PL1	2.22	OESC500K04	1.26	OHB5.....	2.8
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OESAZD48	2.8	OETL-NF1600-2	1.19	OHB65J5E011	1.12
OESA-ZD54.....	2.11	OETL-NF1600-4	1.19	OHB65J6.....	1.9 - 1.12 - 2.7 - 2.10
OESAZD55	2.8 - 2.11	OETL-NF1600P	1.9	OHB65L5	1.12 - 2.8
OESA-ZK98.....	2.11	OETL-NF2000	1.9	OHB65L5E011	1.12
OESA-ZL79	2.15	OETL-NF20001	1.19	OHB7.....	1.16
OESA-ZS36.....	2.11	OETL-NF2000-2	1.19	OHB80J6	1.9 - 1.12 - 1.20 - 1.24 - 2.7 - 2.10 - 2.18
OESA-ZW1	2.12	OETL-NF2000-4	1.19	OHB80J8.....	1.24
OESA-ZW2	1.18	OETL-NF2000P.....	1.9	OHB80L6	1.12 - 1.20 - 2.10
OESA-ZW2	1.18- 1.22 - 2.12	OETL-NF200A-S	1.24	OHB95J12.....	1.9
OESA-ZX125.....	2.15	OETL-NF400-S	1.24	OHF1C12	1.25 - 2.18
OESA-ZX167	1.17 - 1.21 - 2.12	OETL-NF600A-S	1.24	OHF1C4	1.25 - 2.18
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OESAZX1-J6T6.....	2.15	OETL-ZW12	1.22 - 2.16	OHG65J5	1.12 - 2.8
OESAZX1-L8T6.....	2.15	OETL-ZW13	1.23 - 2.16	OHG65J6	1.12 - 2.10
OESAZX1-S10.....	2.21	OETL-ZW15	1.22 - 2.16	OHG80J6	1.12 - 1.20
OESAZX1-S10/4	2.19	OETL-ZW16	1.17 - 2.11	OHM125L12.....	1.20 - 2.14
OESAZX1-S11.....	2.21	OETL-ZW5	2.15	OHM175L12.....	1.20 - 2.14
OESAZX1-S11/4	2.19	OETL-ZW9	1.22 - 2.16	OHM275L12.....	1.20 - 2.14
OESAZX1-S2.....	2.21	OETL-ZX119.....	1.21 - 2.15	OHM65L5	1.12 - 2.8
OESAZX1-S2/4	2.19	OETL-ZX58	1.17	OHM65L6	1.12 - 1.20 - 2.10
OESAZX1-S3.....	2.21	OETL-ZX74	1.24 - 2.17	OHY125J12.....	2.14
OESAZX1-S3/4	2.19	OETL-ZX95	1.17 - 1.21 - 2.12 - 2.15	OHY145J12.....	1.20 - 1.24 - 2.14 - 2.17
OESAZX1-S4.....	2.21	OEZKL1	1.21	OHY145L12	1.20 - 2.14
OESAZX1-S4/4	2.19	OEZKL2	1.21	OHY175J12	1.20 - 2.14
OESAZX1-S5.....	2.21	OEZNP1	1.14	OHY175L12	1.20 - 2.14
OESAZX1-S5/4	2.19	OFM240	2.11 - 2.16	OHY2AJ	1.12
OESAZX1-S6.....	2.21	OFM600	2.11 - 2.16	OHY2AJE011	1.12
OESAZX1-S6/4	2.19	OFMZX2	2.11 - 2.16	OHY2PJ	1.12
OESAZX1-S7.....	2.21	OFMZX4	2.16	OHY2RJ	1.12
OESAZX1-S7/4	2.19	OFS240	2.11	OHY3AH11	1.12
OESAZX1-S8.....	2.21	OFS600	2.11	OHY3PH	1.12
OESAZX1-S8/4	2.19	OHB11.....	1.16	OHY3RH	1.12
OESAZX1-S9.....	2.21	OHB12.....	1.16	OHY45J5.....	1.12
OESAZX1-S9/4	2.19	OHB125J12.....	2.14	OHY45J5	1.12 - 2.8
OESA-ZX204.....	2.15	OHB145J12	1.9 - 1.20 - 1.24 - 2.7 - 2.14 - 2.17	OHY65J5.....	1.12 - 1.24 - 2.8 - 2.17
OESAZX2-S2.....	2.21	OHB145L12	1.20 - 2.14	OHY65J5E011	1.12
OESAZX2-S2/4	2.19	OHB175J12	1.20 - 2.14	OHY65J6	1.12 - 2.10
OESAZX2-S3.....	2.21	OHB175L12	1.20 - 2.14	OHY65L5	1.12 - 2.8
OESAZX2-S3/4	2.19	OHB2/1	1.16	OHY65L5E011	1.12
OESAZX2-S4.....	2.21	OHB200J12.....	1.20	OHY7.....	1.16
OESAZX2-S4/4	2.19	OHB2AJ	1.9 - 1.12	OHY80J6.....	1.12 - 1.24 - 2.8 - 2.17
OESAZX2-S5.....	2.21	OHB2AJE011	1.12	OHY80L6	1.12 - 1.20 - 2.10
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