



Catalog

# Product Selector

## Disconnect and cam switches



## Non-fusible disconnect switches

16A – 3150A, 600VAC

100-200A, 1000VDC

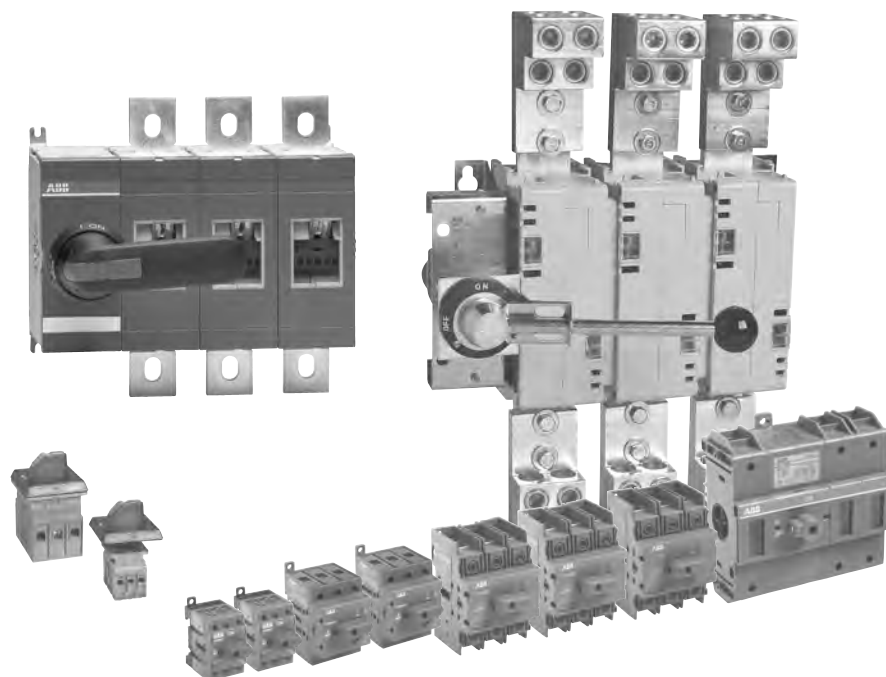


ABB SwitchLine includes 16 different amperage sizes from 16A to 3150A. The basic construction provides flexibility, safety, and high performance in an extremely compact size. ABB SwitchLine is a perfect choice for all switching applications from industrial motor control to construction safety switches.

### International acceptance

UL listed, CSA approved, IEC rated, CE marked, and most other international standards.

**UL98 (CSA 22.2 No.4)** — UL File # E101914, CSA File #LR58077

*For OT30, OT60, OT100, OT200, OT400, OT600, OT800, OT1200*

*OETL-NF1600 – OETL-NF2000 switches, OH\_ pistol grip handles*

Suitable for use as motor disconnects or industrial control panel disconnects on service entrance equipment, panelboards, switchboards, industrial control equipment, motor control centers, etc. and are horsepower rated and ampere rated.

**UL508 (CSA 22.2 No. 14)** — UL File # E63822, CSA File #LR58247

*For OT16 – OT80 switches, OH\_ selector handles*

Suitable for use in equipment or machinery as motor controllers & motor disconnects and are horsepower and ampere rated.

### IEC

Tested in accordance to IEC 947-1 and 3, IEC 664, IEC 269, and IEC 204

### CE

Compliance with the European Machine Directive IEC 204 (EN 60204)

# General information

## Selection guide

### OT16F3 – OT100F3



OT16F3 OT25F3 OT40F3



OT63F3 OT80F3



OT30F3 OT60F3 OT100F3

Catalog number	3 pole	OT16F3	OT25F3	OT40F3	OT63F3	OT80F3	OT30F3	OT60F3	OT100F3
General purpose amp rating	<b>A</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>60</b>	<b>80</b>	<b>30</b>	<b>60</b>	<b>100</b>
Approvals ①									
	2 pole	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3 pole	UL508 & IEC	UL508 & IEC	UL508 & IEC	UL508 & IEC	UL508 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC
	4 pole	UL508 & IEC	UL508 & IEC	UL508 & IEC	UL508 & IEC	UL508 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC
Technical ratings – UL, CSA ②									
Max operating voltage	V	600	600	600	600	600	600	600	600
Max horsepower rating									
Three phase									
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	5	5	5	7.5	15
Technical ratings – IEC ③									
Rated insulation and operational voltage, AC20 and DC20	V	750	750	750	750	750	750	750	750
Rated thermal current, I <sub>th</sub>									
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	32	63	80	40	63	100
AC 21A ≤690V	A	16	25	32	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	lb	0.24	0.24	0.24	0.59	0.59	0.79	0.79
Dimension	3 pole	H	in	2.68	2.68	2.68	3.60	3.94	3.94
		W	in	1.38	1.38	1.38	2.07	2.07	2.76
		D	in	2.20	2.20	2.20	2.85	2.85	2.95
Accessories									
Terminal lug kit		Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Terminal shroud		•	•	•	•	•	•	•	•
Auxiliary contact		•	•	•	•	•	•	•	•
Shaft/handle diameter		6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"
Handle UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Handle type									
Selector		•	•	•	•	•	—	•	•
Pistol		•	•	•	•	•	•	•	•
Recommended pistol handle length		45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm
Maximum recommended shaft length		290mm	290mm	290mm	290mm	290mm	290mm	290mm	290mm
Conversion kits									
6 pole		•	•	•	•	•	•	•	•
Transfer		•	•	•	•	•	•	•	•
Bypass		•	•	•	•	•	•	•	•
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		—	—	—	—	—	—	—	—

• = Available  
— = Not available

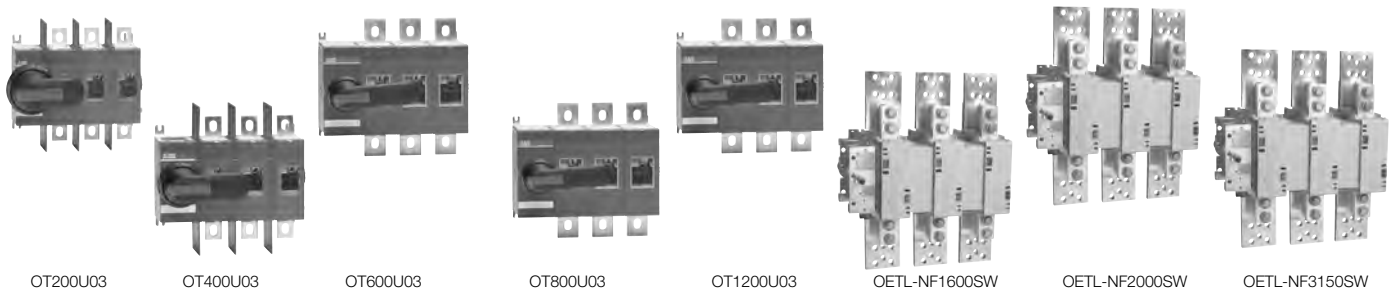
① UL listed switches are also CSA approved.  
② For complete technical information please see page 19.49-19.66.  
③ Switch only.

# General information

## Selection guide

### OT200 – OT1200 & OETL-NF1600 – OETL-NF3150

Disconnect  
switches  
Non-fusible



Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OETL-NF1600	OETL-NF2000	OETL-NF3150
General purpose amp rating	<b>A</b>	<b>200</b>	<b>400</b>	<b>600</b>	<b>800</b>	<b>1200</b>	<b>1600</b>	<b>2000</b>	<b>3150</b>
Approvals ①	2 pole 3 pole 4 pole	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC IEC	UL98 & IEC UL98 & IEC IEC	UL98 & IEC UL98 & IEC IEC	UL98 & IEC UL98 & IEC IEC	IEC IEC IEC
Technical ratings – UL, CSA ②									
Max operating voltage	V	600	600	600	600	600	600	480	600
Max horsepower rating									
Three phase									
240V	HP	75	125	200	250	—	—	—	—
480V	HP	150	250	450	500	—	—	—	—
600V	HP	200	350	500	600	—	—	—	—
Single phase									
120V	HP	—	—	—	—	—	—	—	—
240V	HP	—	—	—	—	—	—	—	—
Technical ratings – IEC ③									
Rated insulation and operational voltage, AC20 and DC20	V	1000	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I <sub>th</sub>									
AC 20/DC 20 open	A	250	400	800	1250	1600	2500	2500	3150
AC 20/DC 20 enclosed	A	250	400	800	1250	1600	2300	2300	2600
AC 21A ≤500V	A	250	400	800	1250	1600	2500④	2500④	3150④
AC 21A ≤690V	A	250	400	800	1250	1600	2500④	2500④	3150④
Rated operational power AC23									
400/415V	kW	132	220	400	400	400	400	400	400
690V	kW	240	355	800	—	—	—	—	—
Physical characteristics									
Weight ④ 3 pole	lb	2.9	5.7	11.4	35.9	38.55	127.7	127.7	127.7
Dimension 3 pole									
H	in	6.69	8.66	10	19.09	19.09	25.04	25.04	25.04
W	in	6.67	8.7	10.64	14.29	14.29	18.43	18.43	18.43
D	in	3.30	3.35	5.56	4.92	4.92	10.67	10.67	10.67
Accessories									
Terminal lug kit		OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200	OZXA-28	OZXA-28/2	OZXA-28/2
Terminal shroud		•	•	•	•	•	—	—	—
Auxiliary contact		•	•	•	•	•	•	•	•
Shaft/handle diameter		6mm .24" x .24"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"
Handle UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Handle type									
Selector		—	—	—	—	—	—	—	—
Pistol		•	•	•	•	•	•	•	•
Recommended pistol handle length		65 - 80mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm
Maximum recommended shaft length		290mm	595mm	595mm	595mm	595mm	595mm	595mm	595mm
Conversion kits									
6 pole		•	•	•	•	•	—	—	—
Transfer		•	•	•	•	•	—	—	—
Bypass		•	•	•	•	•	—	—	—
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		•	•	•	•	•	•	•	•

S = Standard feature

• = Available

— = Not available

① UL listed switches are also CSA approved.

② For complete technical information please see page 19.49-19.66.

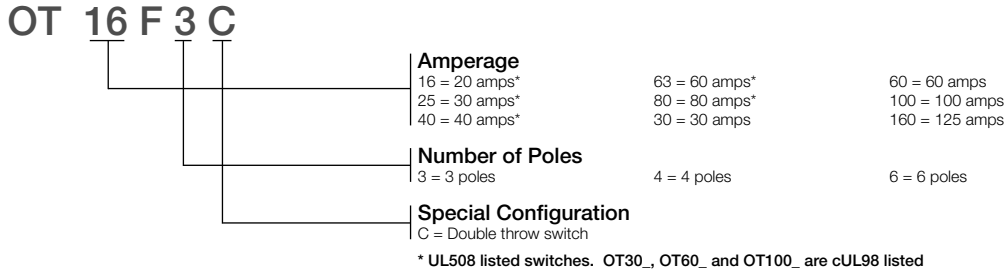
③ Switch only

④ IEC 947-3 Utilization Category B, Infrequent operation

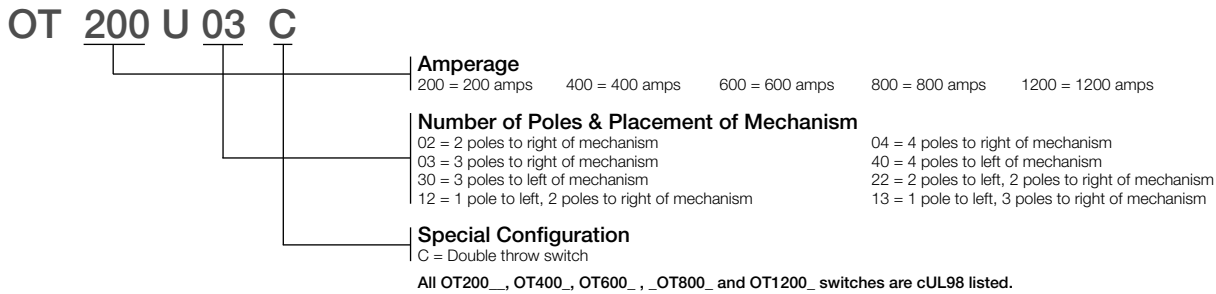
## Selection information

### Standard part number designation ①

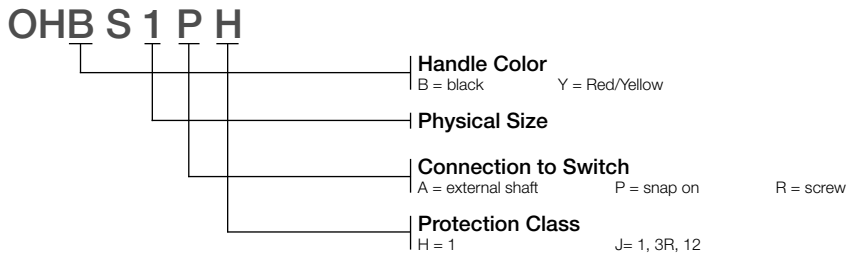
#### Non-Fusible OT Switches (16 to 100A)



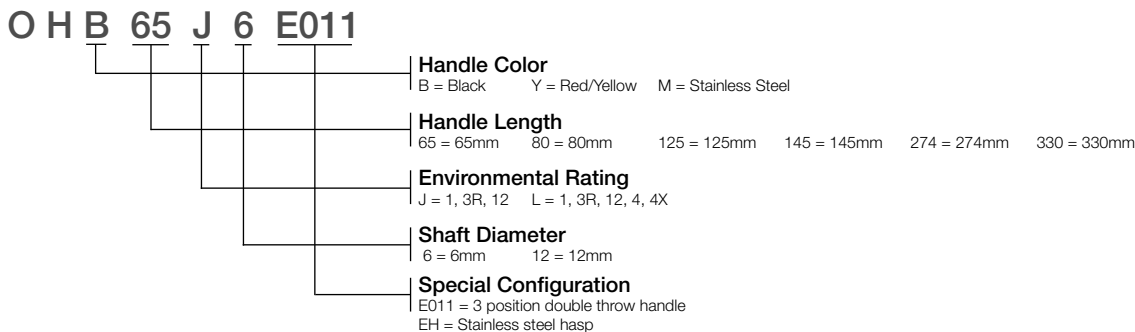
#### Non-Fusible OT Switches (200A and above)



#### Selector Handles



#### Pistol Handles



① Part designation keys are provided for reference only. Not all variations or configurations are available.

# Base & DIN rail mounted ①

## 16A - 3150A

Disconnect  
switches  
Non-fusible

For a complete assembly,  
please select one of each:

- 1 switch (page 19.11)
- 1 handle (page 19.30)
- 1 shaft (page 19.32)
- 1 terminal lug kit (page 19.34)

NOTE: For additional accessories, see  
pages 19.29 - 19.40.

(Lug kits only necessary on switches 200A and above)



OT200U03



OXP6X210



OHB80J6



OZXA-200

UL only	UL general purpose amp rating	IEC AC21 amp rating	2 Pole	3 Pole	4 Pole ②	6 Pole ③
			Catalog number	Catalog number	Catalog number	Catalog number
UL 508	20	16	—	OT16F3	—	OT16F6
	30	25	—	OT25F3	—	OT25F6
	40	40	—	OT40F3	—	OT40F6
	60	63	—	OT63F3	—	OT63F6
	80	80	—	OT80F3	—	OT80F6
UL 98	30	40	—	OT30F3	—	OT30F6
	60	63	—	OT60F3	—	OT60F6
	100	115	—	OT100F3	—	OT100F6
	200	250	OT200U02	OT200U03	OT200U04	—
				OT200U30	OT200U40	—
				OT200U12	OT200U22	—
	400	630	OT400U02	OT400U03	OT400U04	—
				OT400U30	OT400U40	—
				OT400U12	OT400U22	—
	600	800	OT600U02	OT600U03	OT600U04	—
OT600U30				OT600U40	—	
OT600U12				OT600U22	—	
800	1250	OT800U02	OT800U03	OT800U04	—	
1200	1600	OT1200U02	OT1200U03	OT1200U04	—	
1600	2500 ④	OETL-NF16002SW	OETL-NF1600SW	OETL-NF16004SW	—	
2000	2500 ④	OETL-NF20002SW	OETL-NF2000SW	OETL-NF20004SW	—	
-	3150 ④	OETL-NF31502SW	OETL-NF3150SW	OETL-NF31504SW	—	

### Bulk packed 3 Pole, 600V Switches ⑤

UL only	UL general purpose amp rating	IEC AC21 amp rating	Bulk pack Quantity	Catalog number
UL508	20	16	50	OT16F3/B50
	30	25	50	OT25F3/B50
	40	40	50	OT40F3/B50
	60	63	50	OT63F3/B50
	80	80	50	OT80F3/B50
UL98	30	40	25	OT30F3/B25
	60	63	25	OT60F3/B25
	100	115	25	OT100F3/B25

① Above 100A, base mount with screws only.

② A snap on fourth pole may be added on 16-100A switches.

③ For a 6 or 8 pole switch 200 amp and above, a conversion mechanism accessory kit can be used with two 3 or 4 pole switches. See page 19.40.

④ Vertical busbar provided as standard on OETL-NF1600-OETL-NF3150 switches. For alternate back or edgewise mounting busbar, see page 19.38.

⑤ Order quantity is 1.

**Disconnect  
switches**  
Non-fusible

## Door mounted ① 16 - 100A

For a complete assembly,  
please select one of each: ②

1 switch (page 19.12)

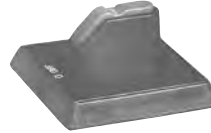
1 handle (page 19.30)

NOTE: For additional accessories, see  
pages 19.29 - 19.40.



OT63FT3

+



OHBS2RJ



UL only	UL general purpose amp rating	IEC AC21 amp rating	3 Pole ③	Bulk packs	
			Catalog number	Bulk pack quantity	Bulk pack Catalog number
UL508	20	16	OT16FT3	50	OT16FT3/B50
	30	25	OT25FT3	50	OT25FT3/B50
	40	40	OT40FT3	50	OT40FT3/B50
	60	63	OT63FT3	50	OT63FT3/B50
	80	80	OT80FT3	50	OT80FT3/B50
UL98	30	40	OT30FT3	25	OT30FT3/B25
	60	63	OT60FT3	25	OT60FT3/B25
	100	115	OT100FT3	25	OT100FT3/B25

① Door mounted switches do not provide door interlock

② Door mounted switches do not require shafts

③ A snap on fourth pole may be added

④ The environmental rating of the pistol handle derates to NEMA 1 when used in conjunction with the OHZX6 adapter.

## Other configurations

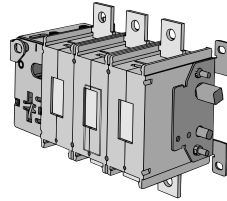
Side operated

30 - 600A

Disconnect  
switches  
Non-fusible

For a complete assembly,  
please select one of each:

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



OETL-NF400-S



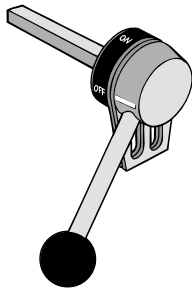
OXP12x325



OHB145J12E00S



OSNF30-S



OETL-ZX74



OHY\_J



OXP6X170  
OXP12X325



OZXA-24 OZXA-25



OZXA-26

### Side operated switches — 3 pole

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating					Weight (Lbs.)	Catalog number
		Three phase						
		200V	208V	240V	480V	600V		
30	32	5	7.5	7.5	15	20	1.90	OSNF30-S ①
60	63	15	15	15	30	50	3.90	OSNF60-S ①
100	125	25	25	30	60	75	4.50	OSNF100-S
400	630	100	100	125	250	350	13.66	OETL-NF400-S
600	800	150	150	200	400	500	13.66	OETL-NF600A-S

### Handles

UL/NEMA type	Color	Length inches/mm	Marking	Defeatable	Padlockable	Weight (Lbs.)	Catalog number
<b>For use with OSNF30-S</b>							
1, 12, 3R	Black Red/Yel	2.65/65	O/I & Off/On	Yes	Yes	Yes	OHB65J6E00S OHY65J6E00S

### For use with OSNF60-S — OSNF100-S

1, 12, 3R	Black Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	Yes	OHB80J6E00S OHY80J6E00S
-----------	------------------	--------	--------------	-----	-----	-----	----------------------------

### For use with OETL-NF400-S — OETL-NF600A-S

1, 12, 3R	Black Red/Yel Metal	4.9/145	O/I & Off/On O/I & Off/On Off/On	Yes	Yes	Yes	OHB145J12E00S OHY145J12E00S OETL-ZX74
-----------	---------------------------	---------	----------------------------------------	-----	-----	-----	---------------------------------------------

### Shaft

For use with:	Length (Inches/mm)	Description	Weight (Lbs.)	Catalog number
OSNF30-S	6.7/170	.20 x .20" (5 x 5mm)	0.08	OXP6X170
OSNF60-S – OSNF100-S	8.3/210	.24 x .24" (6 x 6mm)	0.10	OXP6X210
OETL-NF400-S – OETL-NF600A-S	12.8/325	.47 X .47" (12 X 12mm)	0.90	OXP12X325

### Terminal lug kits

For use with:	Wire size	Weight	Wire type	Lugs per kit	Catalog number
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-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

① Fused switches with solid links installed.



Disconnect  
switches  
Non-fusible

## Special configurations

### Shaft operated flange

30A - 100A



Switch

+



Handle

+



Shaft

#### 30A -100A Flange operated — non fusible switches (Shaft)

- 3 pole



OT100F3

UL general purpose amp rating	Catalog number
30	OT30F3-F
60	OT60F3-F
100	OT100F3-F

#### Flange handles — for use with OT30\_, OT60\_, OT100

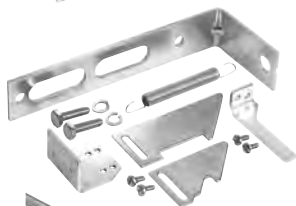
UL/ NEMA type	Marking	Defeatable	Padlockable	Catalog number
1, 3R, 12	OFF/ON	Yes	Yes	DSFHN-HS12
4, 4X	OFF/ON	Yes	Yes	DSFHN-HS4



DSFHN-HS12

#### Shafts

For use with:	Maximum enclosure depth (inches)		Catalog number
OT30_ - OT100_	16		OTFS-16
OT30_ - OT100_	24		OTFS-24



DSFHS-12

#### Door hardware NEMA 12

Item	Catalog number
Safety door latch, 2 point, door less than 40" high	KDH2R
Safety door latch, 2 point, door greater than 40" high	KDH3R

#### Flange operated fusible and non-fusible disconnect switches

ABB's solution for complying with the new NFPA79 requirements is Flange Operated Fusible and Non-fusible Disconnect Switches.

NFPA 79 changes requires main disconnecting means to be operable without the use of accessory tools or devices, independent of door position. This code also includes an interlocking provision to prevent the closing of disconnects while the enclosure door is open, unless an interlock is operated by a deliberate action.

The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version allows you to install the disconnect switch virtually anywhere in the enclosure depending on the length of the cable. Cables are available in lengths up to 84 inches.

The designs are cost-effective NFPA 79 solutions offering quick and easy installation.

Disconnect  
switches  
Non-fusible

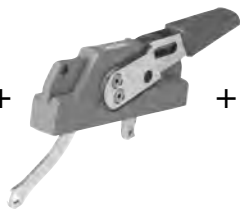
## Special configurations

Cable operated flange  
30A - 1200A



Switch

+



Handle

+



Cable

+



Lug kit (as required)

+



Operating mechanism ①

### Non-fusible



OT100F3

UL general purpose amp rating	Catalog number	UL general purpose amp rating	Catalog number
30	OT30F3	400	OETL-NF400-FC ②
60	OT60F3	600	OETL-NF600A-FC ②
100	OT100F3	800	OETL-NF800A-FC ②
200	OT200U30	1200	OETL-NF1200-FC ②

### Flange handles — UL98; UL file #E101914



OHF1C12

For use with:	Environmental rating	Catalog number
OT30 - 100F3, OT160E3, OT200U30	NEMA 1, 3R, 12 NEMA 4, 4X	OHF1C12 OHF1C4
OETL-NF400_, OETL-NF600_, OETL-NF800_, OETL-NF1200_	NEMA 1, 3R, 12 NEMA 4, 4X	K7FCH K7FCH4

### Flexible cables



OXC1L36-  
OXC1L84

For use with:	Cable length (inches)	Catalog number
OT30 - 100F3, OT160E3, OT200U30	36	OXC1L36
	48	OXC1L48
	60	OXC1L60
	72	OXC1L72
	84	OXC1L84
OETL-NF400_, OETL-NF600_, OETL-NF800_, OETL-NF1200_	48	K7C048
	60	K7C060
	72	K7C072
	84	K7C084

### Operating mechanisms

For use with:	Catalog number
OT30 - 100F3 OT160E3 OT200U30	MKCS1 MKCS3 MKCS4
OETL-NF400-FC, OETL-NF800_, OETL-NF1200-FC	Included

① Operating mechanism required for OT30 - OT200  
② Operating mechanism is included.

Disconnect  
switches  
Non-fusible

## Special configurations

### Cable operated flange

### 30A - 1200A

#### Terminal lug kits

For use with	Wire size	Wire type	Description	Lugs per kit	Catalog number
OT200U30	#4 - 300 kcmil	Cu/Al	—	6	OZXA-200
	#4 - 300 kcmil	Cu/Al	—	3	OZXA-200/3
	(6) #4-6 AWG	Cu/Al	Distribution lug	3	OZXA-206S
OETL-NF400-FC	#2 - 600 kcmil	Cu/Al	-	6	OZXA-26
OETL-NF600 -	#2 - 600 kcmil	Cu/Al	-	6	OZXA-27
OETL-NF800	#2 - 600 kcmil	Cu/Al	-	3	OZXA-27/3P
	(6) 14-6 AWG	Cu/Al	Distribution lug	3	OZXA-175/400
OETL-NF1200	(4) #2-600 kcmil	Cu/Al	-	6	OZXA-28
	(8) 2/0 + (2) #2-600 kcmil	Cu/Al	-	3	OZXA-28/3P
	(8) 2/0 + (2) #2-600 kcmil	Cu/Al	Distribution lug	3	OZXA-32

#### Door hardware — NEMA 12

Item	Catalog number
Safety door latch, 2 point, door less than 40" high	KDH2R
Safety door latch, 3 point, door greater than 40" high	KDH3R

#### Terminal shrouds

For use on	Description	Weight (lbs.)	Catalog number
OT30 - OT100	3 Pole	0.02	OTS125T3
OT200	3 Pole Long Type Shroud	0.2	OTS250G1L/3
OT200	3 Pole Short Type Shroud	0.13	OTS250G1S/3
OETL-NF400	3 Pole (includes one shroud for line and load side)	0.62	OETL-ZX111
OETL-NF600	3 Pole (includes one shroud for line and load side)	0.66	OETL-ZX94
OETL-NF800	3 Pole (includes one shroud for line and load side)	0.88	OETL-2X800A
OETL-NF1200	3 Pole (includes one shroud for line and load side)	1.2	OETL-2X119



## Fusible disconnect switches 30A – 1200A, 600VAC

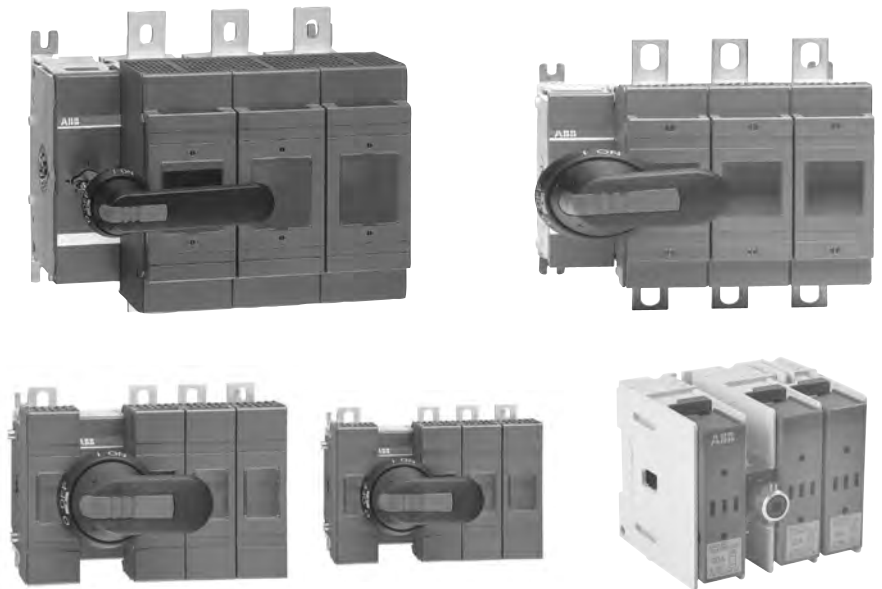


ABB PowerLine includes seven different amperage sizes from 30A to 1200A. All ABB fusible switches are designed to meet customer requirements in terms of high interrupting capacity and long electrical life while occupying little more panel space than the appropriate fuses. The basic construction provides 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.

### International acceptance

ABB fusible switches are available with a wide range of fuse clip options:

UL	USA	CSA	Canada
DIN	Europe	BS	United Kingdom
NFC	France	Ultra-rapid	

As well as the corresponding approvals: UL listed, CSA approved, IEC rated, CE marked, and most other international standards.

**UL98 (CSA 22.2 No.4)** – UL File # E101914, CSA File #LR58077

*For 30A – 1200A switches, OH\_\_ pistol grip handles*

Suitable for use as motor disconnects or industrial control panel disconnects on service entrance equipment, panelboards, switchboards, industrial control equipment, motor control centers, etc. and are horsepower rated and ampere rated.

### IEC

Tested in accordance to IEC 947-1 and 3, IEC 664, IEC 269, and IEC 204

### CE

Compliance with the European Machine Directive IEC 204 (EN 60204)

Disconnect  
switches  
Fusible

## Selection guide OS30FACC12 – OS1200L03



Catalog number	3 pole	OS30FACC12	OS30FAJ12	OS60GJ12	OS100GJ03	OS200J03	OS400J03	OS600J03	OS800L3	OS1200L03	
General purpose amp rating	<b>A</b>	<b>30</b>	<b>30</b>	<b>60</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>600</b>	<b>800</b>	<b>1200</b>	
Approvals ①	2 pole 3 pole 4 pole	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	
<b>Technical ratings (UL, CSA)</b>											
Max operating voltage	V	600	600	600	600	600	600	600	600	600	
Max horsepower rating											
Three phase											
240V	HP	7.5	7.5	15	30	60	125	200	250	—	
480V	HP	15	15	30	60	125	250	400	500	—	
600V	HP	20	20	50	75	150	350	500	600	—	
Single phase											
120V	HP	2	2	—	—	—	—	—	—	—	
240V	HP	3	3	—	—	—	—	—	—	—	
UL fuse class		CC	J	J	J	J	J	J	L	L	
<b>Technical ratings (IEC)</b>											
Rated insulation and operational voltage, AC20 and DC20	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Rated thermal current, I <sub>n</sub>											
AC 20/DC 20 open	A	32	32	63	160	200	400	630	800	1250	
AC 20/DC 20 enclosed	A	32	32	63	160	200	400	600	720	1250	
AC 21A ≤500V	A	32	32	63	160	200	400	630	800	1250	
AC 21A ≤690V	A	32	32	63	160	200	400	630	800	1250	
Rated operational power AC23											
400/415V	kW	14/15	14/15	30	80/90	110	220/230	355	350/380	560	
690V	kW	25	25	60	132	200	400	560	600	1000	
<b>Physical characteristics</b>											
Weight	3 pole switch 4 pole	lb lb	1.54 1.98	1.54 1.98	2.86 3.52	3.30 3.96	5.9 7.5	12.56 15.21	28.66 37.48	37.44 46.26	63.93 —
Dimension	3 pole	H in W in D in	3.66 4.15 4.10	3.60 4.15 4.10	3.94 5.63 5.04	5.67 7.07 5.10	6.5 7.1 5.2	9.29 10.04 6.93	12.03 13.86 9.18	12.03 13.86 9.18	16.7 16.42 11.62
<b>Accessories</b>											
Double break contacts		S	S	S	S	S	S	S	S	S	
Fuse cover		S	S	S	S	S	S	S	S	S	
Terminal lug kit		Integral	Integral	Integral	OZXA-24	OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200	
Terminal shroud		Not required	Not required	Not required	•	•	•	•	•	•	
Auxiliary contact		•	•	•	•	•	•	•	•	•	
Shaft/handle diameter		6mm .24 x .24"	6mm .24 x .24"	6mm .24 x .24"	6mm .24 x .24"	6mm .24 x .24"	12mm .47 x .47"	12mm .47 x .47"	12mm .47 x .47"	12mm .47 x .47"	
Handle UL/NEMA type		•	•	•	•	•	•	•	•	•	
Type 1, 3R, 12		•	•	•	•	•	•	•	•	•	
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•	•	
Recommended pistol handle length		45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	65 - 80mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm	
Maximum recommended shaft length		290mm	290mm	290mm	290mm	290mm	595mm	595mm	595mm	595mm	
Electrical interlock		—	—	—	—	—	•	•	•	•	

S = Standard  
• = Available  
— = Not available

① UL listed switches are also CSA approved.

## Selection information

### Standard part number designation ①

#### Fusible OS Switches (30A)

**OS 30 F A J 22 F**

**Amperage**  
30 = 30 amps

**Fuse Type/Class**  
J = Class J fuse compatible      CC= Class CC fuse compatible

**Number of poles and placement of the mechanism**  
12 = 1 Pole to the left of mechanism, 2 poles to the right of mechanism  
22 = 2 Poles to the left of mechanism, 2 poles to the right of mechanism

#### Fusible OS Switches (60 to 100A)

**OS 100G J 03**

**Amperage**  
60 = 60 amps      100 = 100 amps

**Fuse Type/Class**  
J = Class J fuse compatible

**Number of poles and placement of the mechanism**  
03 = 3 Poles to the right of mechanism      04 = 4 poles to the right of mechanism

#### Fusible OS Switches (200A and above)

**OS 200 J 04 F**

**Amperage**  
200 = 200 amps      400 = 400 amps      600 = 600 amps      800 = 800 amps      1200 = 1200 amps

**Fuse Type/Class**  
J = Class J fuse compatible

**Number of poles and placement of the mechanism**  
03 = 3 Poles to the right of mechanism      04 = 4 poles to the right of mechanism  
12 = 1 Pole to left of mechanism, 2 poles to right      22 = 2 Poles to left of mechanism, 2 poles to right  
30 = 3 Poles to the left of mechanism      40 = 4 Poles to the left of mechanism

#### Pistol Handles

**O H B 65 J 6 E011**

**Handle Color**  
B = Black      Y = Red/Yellow      M = Stainless Steel

**Handle Length**  
65 = 65mm      80 = 80mm      125 = 125mm      145 = 145mm      175 = 175mm      274 = 274mm      275 = 275mm      330 = 330mm

**Environmental Rating**  
J = 1, 3R, 12      L = 1, 3R, 12, 4, 4X

**Shaft Diameter**  
6 = 6mm      12 = 12mm

**Special Configuration**  
E011 = 3 position transfer switch handle  
EH = Stainless Steel Hasp

① Part designation keys are provided for reference only. Not all variations or configurations are available.

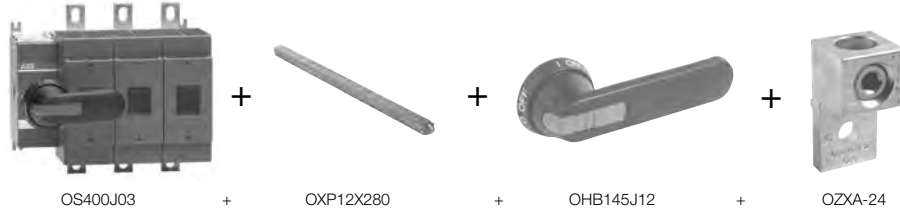
## Base & DIN rail mounted 30 – 1200A

For a complete assembly, please select one of each:

- 1 switch (page 19.22)
- 1 handle (page 19.30)
- 1 shaft (page 19.32)
- 1 terminal lug kit (page 19.34)

NOTE: For additional accessories, see pages 19.29 - 19.40.

(Only required for 100A & above.)



OS30FAJ12

	UL general purpose amp rating	UL Fuse Type 600V	2 Pole	3 Pole	4 Pole
			Catalog number	Catalog number	Catalog number
UL 98	30	J CC ①	—	OS30FAJ12 OS30FACC12	OS30FAJ22F OS30FACC22F
	60	J	—	OS60GJ12 ② OS60GJ03	OS60GJ22F
	100	J	—	OS100GJ12 ② OS100GJ03 ②	OS100GJ04F
	200	J	OS200J02	OS200J03 OS200J30 OS200J12	OS200J04F OS200J13F OS200J22F
	400	J	OS400J02	OS400J03 OS400J30 OS400J12	OS400J04F
	600	J	OS600J02	OS600J03 OS600J30 OS600J12	OS600J04F
	800	L	OS800L02	OS800L03	OS800L04F
	1200	L	OS1200L02	OS1200L03	OS1200L04F

① Rejection style fuses only.

② Din Rail Mountable: 60A & 100A requires Din Rail Adapter OSGZD1

Disconnect  
switches  
Fusible

## Other configurations

### Side operated

### 30A – 400A, UL fuse class J,CC

For a complete assembly,  
please select one of each:

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



OS30FAJS30

+



OXP6X170

+



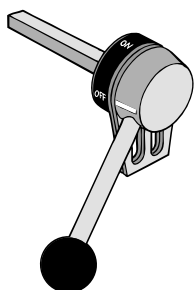
OHY65L6E00S



OS60GJS30



OS100GJS30



OETL-ZX74



OZXA-24

### Side operated switches — 3 pole

UL general purpose amp rating	UL fuse type 600V	Maximum horsepower rating					Weight (Lbs.)	Catalog number
		Three phase						
		200V	208V	240V	480V	600V		
30	J	5	7.5	7.5	15	20	1.54	OS30FAJS30
30	CC	5	7.5	7.5	15	20	1.54	OS30FACCS30
60	J	15	15	15	30	50	3.52	OS60GJS30
100	J1	25	25	30	60	75	3.97	OS100GJS30
200	J1	50	50	60	125	150	15.21	OES200J3-S
400	J1	100	100	125	250	350	17.20	OES400J3-S

### Handles

UL/NEMA type	IEC type	Color	Length (Inches/mm)	Marking	Defeatable	Padlockable	Weight	Catalog number
<b>For use with OS30A_S30</b>								
1, 3R, 12	IP65	Black Red/Yel	2.6/65	OFF/ON	Yes	Yes	0.29	OHB65J6E00S OHY65L6E00S
<b>For use with OS60GJ30, OS60JS30 &amp; OS100GJ30</b>								
1, 3R, 12	IP65	Black Red/Yel	3.1/80	OFF/ON	Yes	Yes	0.30	OHB80J6E00S
<b>For use with OES200J3-S &amp; OES400J3-S</b>								
1, 3R, 12	IP65	Black Red/Yel	4.9/145	OFF/ON	Yes	Yes	0.39	OHB145J12E00S OHY145J12E00S
		Metal			No	Yes		

### Shaft

For use with:	Length (Inches/mm)	Description	Weight (Lbs.)	Catalog number
OS30AJS30 & OS30ACCS30	6.7/170	.20 x .20" (5 x 5mm)	0.08	OXP6X170
OS60GJS30 & OS100GJS30	8.3/210	.24 x .24" (6 x 6mm)	0.10	OXP6X210
OES200J3-S & OES400J3-S	12.8/325	.47 X .47" (12 X 12mm)	0.90	OXP12X325

### Terminal lug kits

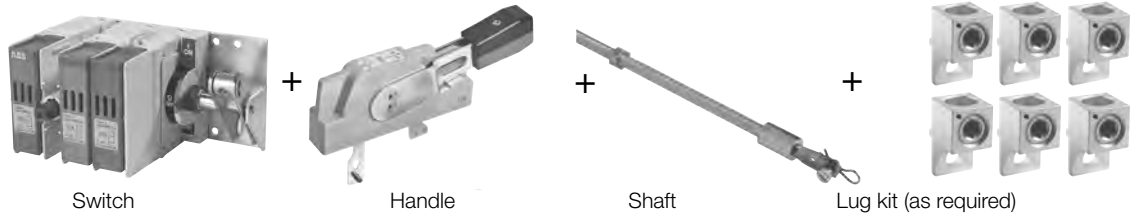
For use with:	Wire size	Weight	Wire type	Lugs per kit	Catalog number
OS30AJS30 & OS30ACCS30	#18 – 8	—	Cu	—	Integral
OS60GJS30	#14 – 4	—	Cu	—	Integral
OS100GJS30	#14 – 2/0	0.43	Cu/Al	6	OZXA-24
OES200J3-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZXA-25
OES400J3-S	#2 – 600 kcmil	3.50	Cu/Al	6	OZXA-26



## Special configurations

### Shaft operated flange 30A - 100A

For a complete assembly, please select one of each.



#### 30A -100A Flange operated fusible switches (Shaft) — 3 pole



OS30FAJF30

UL general purpose amp rating A	UL fuse type 600V	Maximum horsepower rating			Catalog number
		Three phase			
		240V	480V	600V	
30	J	7.5	15	20	OS30FAJF30
30	CC	7.5	15	20	OS30FACCF30
60	J	15	30	50	OS60GJF30
100	J	30	60	75	OS100GJF30

#### Flange handles



UL/ NEMA type	Marking	Defeatable	Padlockable	Catalog number
1, 3R, 12	OFF/ON	Yes	Yes	DSFHN-HS12
4, 4X	OFF/ON	Yes	Yes	DSFHN-HS4

#### Shafts



DSFHN-HS\_

For use with:	Maximum enclosure depth (inches)	Catalog number
OS30_ - OS100_	16 21 26.5	DSFHS-12 DSFHS-17 DSFHS-22

#### Terminal lug kits and accessories



DSFHS\_

For use on:	Description	Wire size	Wire type	Qty.	Catalog number
OS30_	Lug	#18 - #8	Cu	--	Integral
OS60_	Lug	#14 - #4	Cu	--	Integral
OS100_	Lug	#14 - 2/0	Cu/Al	6	OZXA-24
OS30_ - OS100_	Aux. Contact	1 NO		1	OA1G10
	Aux. Contact	1 NC		1	OA3G01
OS30_	Adapter	Needed for mounting aux. Contacts on OS30_		1	OSZ4
OS100_	Shroud	Includes one set of 3 for use on line or load side		1	OSS160GG1L/3 OSS160GG1S/3

#### Door hardware NEMA 12



OZXA-24

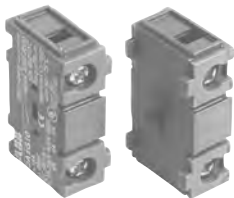
Item	Catalog number
Safety door latch, 2 point, door less than 40" high	KDH2R
Safety door latch, 3 point, door greater than 40" high	KDH3R

#### Flange operated fusible and non-fusible disconnect switches

ABB's solution for complying with the NFPA79 requirements is Flange Operated Fusible and Non-fusible Disconnect Switches. NFPA 79 changes requires main disconnecting means to be operable without the use of accessory tools or devices, independent of door position. This code also includes an interlocking provision to prevent the closing of disconnects while the enclosure door is open, unless an interlock is operated by a deliberate action.

The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version allows you to install the disconnect switch virtually anywhere in the enclosure depending on the length of the cable. Cables are available in lengths up to 84 inches.

The designs are cost-effective NFPA 79 solutions offering quick and easy installation.



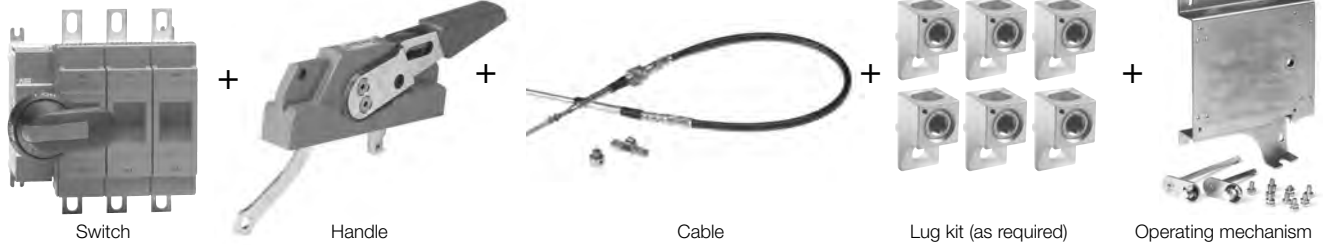
OA1G\_

# Special configurations

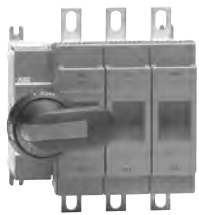
Cable operated flange  
30A - 800A

Disconnect  
switches  
Fusible

For a complete assembly, please select one each of the following:



## Fusible



OS200J03

UL general purpose amp rating	UL fuse type 600V	Catalog number
30	J	OS30FAJ12
30	CC	OS30FACC12
60	J	OS60GJ12
60	J	OS60GJ30
100	J	OS100GJ30
200	J	OS200J30
400	J	OES400J3-FC ①
600	J	OES600J3-FC ①
800	L	OES800L3-FC ①

## Flange handles — UL98; File #E101914



OHF1C12

For use with:	Environmental rating	Catalog number
OS30_12, OS60GJ12, OS60GJ30, OS100GJ30, OS200J30	NEMA 1, 3R, 12	OHF1C12
	NEMA 4, 4X	OHF1C4
OES400_, OES600_, OES800_	NEMA 4, 4X	K7FCH4

## Flexible cables



OXC1L36-  
OXC1L84

For use with:	Cable length (inches)	Catalog number
OS30_12, OS60GJ12, OS60GJ30, OS100GJ30, OS200J30	36	OXC1L36
	48	OXC1L48
	60	OXC1L60
	72	OXC1L72
	84	OXC1L84
OES400_, OES600_, OES800_	48	K7C048
	60	K7C060
	72	K7C072
	84	K7C084

## Operating mechanisms

For use with:	Catalog number
OS30AFJ12, OS30AFCC12	MKCS2
OS60GJ12	MKCS3
OS60GJ30, OS100GJ30, OS200J30	MKCS4
OES400 - OES800	Included

① Operating mechanism is included.

Disconnect  
switches  
Fusible

## Special configurations

Cable operated flange

30A - 800A



Lug Kit



OZXA-200

### Terminal lug kits

For use with	Wire size	Wire type	Description	Lugs per kit	Catalog number
OS100GJ30	#4 - 300 kcmil	Cu/Al	-	6	OZXA-24
OS200J30	#4 - 300 kcmil	Cu/Al	-	3	OZXA-200/3
	(6) #4-6 AWG	Cu/Al	Distribution lug	3	OZXA-206S
OES400	#2 - 600 kcmil	Cu/Al	-	6	OZXA-26
	#2 - 600 kcmil	Cu/Al	-	3	OZXA-26/3P
	(2) #2 - 500 kcmil	Cu/Al	Distribution lug	6	OZXA-33
OES600 - OES800	(12) #14 - 6 kcmil	Cu/Al	-	3	OZXA-175/400
	(2) #2 - 600 kcmil	Cu/Al	-	6	OZXA-27
	(2) #2 - 600 kcmil	Cu/Al	Distribution lug	3	OZXA-27/3P

### Door hardware NEMA 12

Item	Catalog number
Safety door latch, 2 point, door less than 40" high	KDH2R
Safety door latch, 3 point, door greater than 40" high	KDH3R

### Terminal shrouds

For use on	Description	Weight (lbs.)	Catalog number
OS100	1 Pole	0.04	OSS160T1
OS100	3 Pole	0.12	OSS160T3
OS200	3 Pole Long Type Shroud	0.2	OSS200G1L/3
OS200	3 Pole Short Type Shroud	0.13	OSS200G1S/3
OES400	3 Pole (includes one shroud for line and load side)	0.13	OESA-ZX123
OES600	3 Pole (includes one shroud for line and load side)	0.13	OESA-ZX125
OES800	3 Pole (includes one shroud for line and load side)	0.11	OESA-ZX125

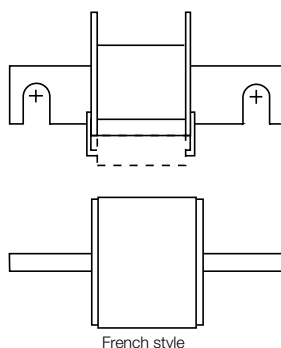
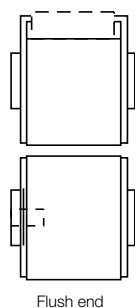
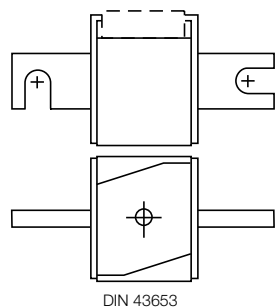
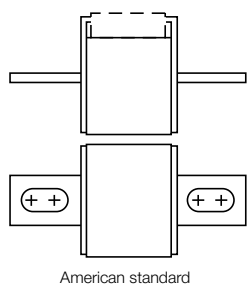
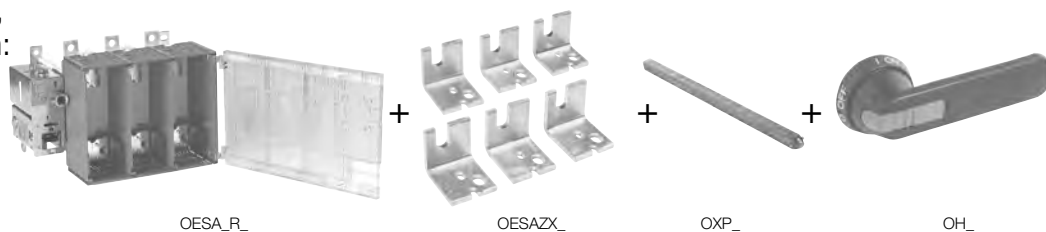
Disconnect  
switches  
Fusible

## 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 – 200 A through 800 A

UL general purpose amp rating	Maximum horsepower rating three phase			Max. allowed fuse power dissipation at rated current	Weight	Catalog number
	240 V	480 V	600 V			
200	60	125	150	22W	15.21	OES200R03
400	125	250	350	45W	17.20	OES400R03
600	200	400	500	60W	37.48	OES600R03
800	250	500	600	65W	37.48	OES800R03
200	60	125	150	22W	17.4	OES200R04
400	125	250	350	45W	19.4	OES400R04
600	200	400	500	60W	46.3	OES600R04
800	250	500	600	65W	46.3	OES800R04

#### Fuse adapter kits — for switches OES200 – OES400

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

#### Fuse adapter kits — for switches OES600 – OES800

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

#### Handles and shafts — see pages 19.30 - 19.32.

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

Ⓞ Consult Factory.

## Other configurations

High speed fuse pattern  
Standard switches

For a complete assembly,  
please select one switch  
catalog number which  
includes:



Switch body



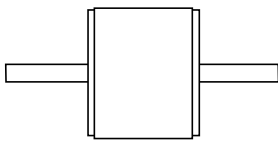
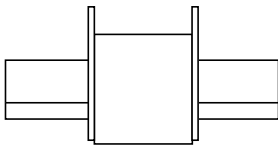
shaft



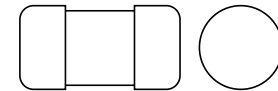
handle

### Selecting switch bodies

There are some HSF fuses that fit in standard pattern fusible disconnects, no adapter kits needed.



DIN 43620



NFC Style

### DIN-type fusible disconnects – 32-1200A

IEC Amp rating	AC23A operational power in kW		Fuse Type	Weight (kg)	3 Pole Catalog number	4 Pole Catalog number
	400V	500V				
32	15	18.5	DIN 000	1.3	OS32GD03	OS32GD04F
63	30	37	DIN 000	1.3	OS63GD03	OS63GD04F
160	75	90	DIN 000, 00	1.5	OS160GD03	OS160GD04F
250	145	170	DIN 0, 1	4.3	OS200D03	OS200D04F
400	230	280	DIN 0, 1, 2	7.1	OS400D03	OS400D04F
630	355	450	DIN 3	13.6	OS630D03	OS630D04F
800	450	560	DIN 3	13.6	OS800D03	OS800D04F
1200	560	710	DIN 4	46	OS1250D03	OS1250D04F

### NFC-style Fusible disconnects – 25-125A

IEC Amp rating	AC23A operational power in kW		Fuse Type	Weight (kg)	3 Pole Catalog number	4 Pole Catalog number
	400V	500V				
25	11	15	NFC 10x38	0.7	OS25FF1210	OS25FF2210F
32	15	18.5	NFC 14x51	0.7	OS32FF1214	OS32FF2214F
50	22	30	NFC 14x51	1.3	OS50GF12	OS50GF22F
125	55	75	NFC 22x58	1.5	OS125GF12	OS125GF22F

### BS-types fusible disconnects – 32-1200A

IEC Amp rating	AC23A operational power in kW		Fuse Type	Weight (kg)	3 Pole Catalog number	4 Pole Catalog number
	400V	500V				
32	15	18.5	A2,A3	1.3	OS32GB03	OS32GB04N1
63	30	37	A2,A3	1.3	OS63GB03	OS63GB04N1
100	55	55	A2, A3, A4	1.5	OS100GB03	OS100GB04N1
160	75	90	A2, A3, A4	1.5	OS160GB03	OS160GB04N1
200	145	170	B1-B2	3.3	OS200B03	OS200B04N2
400	230	280	B1-B4	7.1	OS400B03	OS400B04N2
630	355	450	C1-C2	13.6	OS630B03	OS630B04N2
800	450	560	C1-C3	13.6	OS800B03	OS800B04N2
1250	560	710	D1	46	OS1250B03	OS1250B04N2

**Disconnect switches**  
Non-fusible

## OTDC Disconnect switches

28A - 55A, 600VDC

100A - 200A, 1000VDC



OTDC200U11

OTDC200U02

UL Category	UL General purpose amp rating	IEC DC21B amp rating	Number of circuits	Number of poles	Catalog number w/jumper installed	Catalog number w/o jumper
<b>28A - 55A, 600VDC</b>						
UL508	28	28	1	8 +1	-	OT40FD9N2
	55	55	1	8	-	OT80FD8
<b>100A - 200A, 1000VDC</b>						
UL98B	100	100	1	2	OTDC100US11	OTDC100U11
	100	100	1	2	OTDC100US02	OTDC100U02
	100	100	2	4	OTDC100US22	OTDC100U22
	200	250	1	2	OTDC200US11	OTDC200U11
	200	250	1	2	OTDC200US02	OTDC200U02
	180	250	2	4	OTDC180US22	OTDC180U22
	250	315	1	2	OTDC250US11	OTDC250U11
	250	315	1	2	OTDC250US02	OTDC250U02
	250	315	2	4	OTDC250US22	OTDC250U22
	320	400	1	2	OTDC320US11	OTDC320U11
	320	400	1	2	OTDC320US02	OTDC320U02
	320	400	2	3	OTDC320US22	OTDC320U22
	400	500	1	2	OTDC400US11	OTDC400U11
	400	500	1	2	OTDC400US02	OTDC400U02
	400	500	2	2	OTDC400US22	OTDC400U22

### Phase separators

Switch size	Units type (pcs)	Weight/unit (lbs.)	Catalog number
100...200	6	0.04	OTDCB250/6
250...400	6	0.05	OTDCB400/2

Grey plastic plate for maintaining 1" clearance between the phases without terminal shrouds. Snap on mounting. Includes as standard in OTDC100...200U\_types.

### Jumper / heat sink

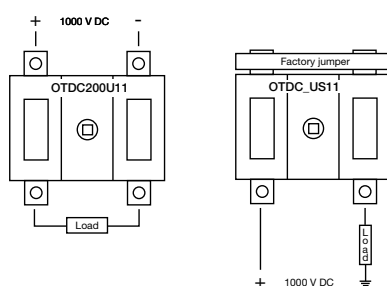
Switch size	Units type (pcs)	Weight/unit (lbs.)	Catalog number
100...200	1	0.04	OEZXY91
250...400	1	0.08	OEZXY96

### Terminal lugs

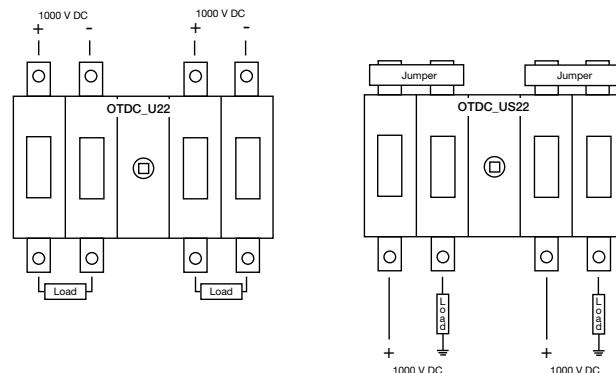
Switch size	Catalog number
100...200	OZXA-200
250...400	OZXA-400

### Wiring diagrams

2 Pole



4 Pole



Ⓢ \*S\* indicates jumpers installed. Jumpers are installed on line side, connecting 2 poles in series

Disconnect  
switches  
Non-fusible

## Special configurations

### Double throw switches

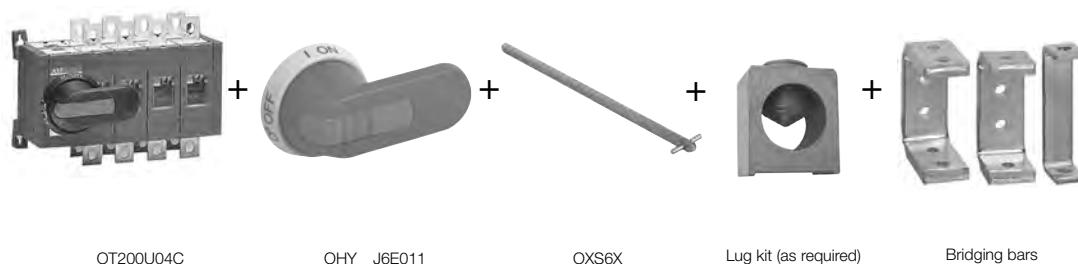
### 16A - 600A

For a complete assembly,  
please select one of each:

- 1 switch (page 19.17)
- 1 handle (page 19.30)
- 1 shaft (page 19.32)
- 1 terminal lug kit (page 19.34)
- 1 bridging bar (page 19.17)

NOTE: For additional accessories, see  
pages 19.29 - 19.40

(Lug kits only necessary on switches 200A and above)



OT63F3C

UL only	UL general purpose amp rating	IEC AC21 amp rating	3 Pole	4 Pole ①
			Catalog number	Catalog number
UL508	20	16	OT16F3C	—
	30	25	OT25F3C	—
	40	40	OT40F3C	—
	60	63	OT63F3C	—
	80	80	OT80F3C	—
UL98	30	40	OT30F3C	—
	60	63	OT60F3C	—
	100	115	OT100F3C	—
	200	250	OT200U03C	OT200U04C
			OT200U30C	OT200U40C
	400	630	OT400U03C	OT400U04C
			OT400U30C	OT400U40C
	600	800	OT600U03C	OT600U04C
			OT600U30C	OT600U40C
	800	1250	OT800U03C	OT800U04C
OT800U30C			OT800U40C	



OTZC13

#### Bridging busbar kits — required for OT200\_C through OT600\_C ②

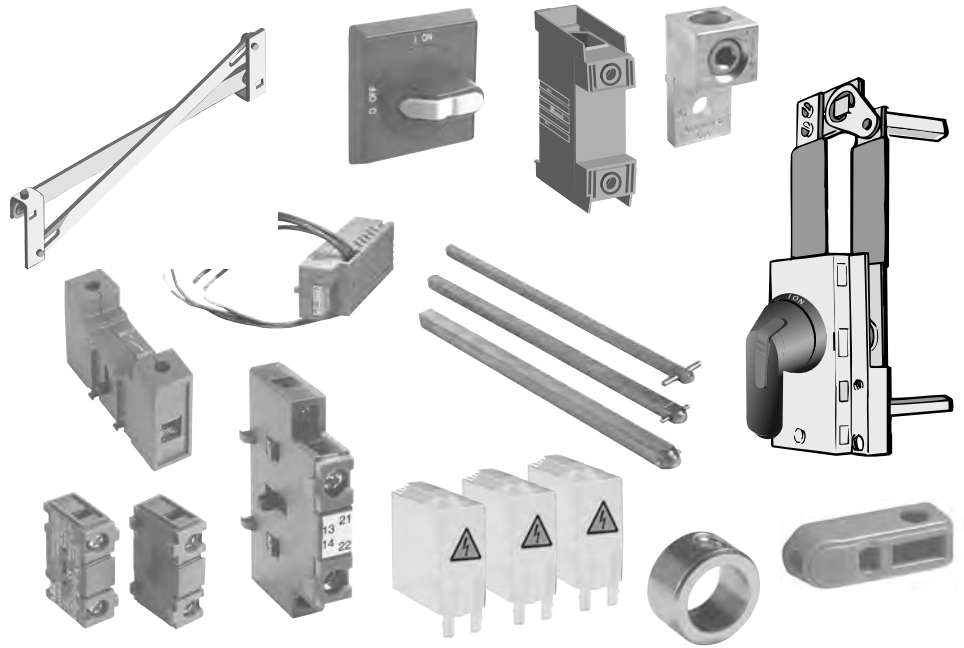
Description	For Use On:	Catalog number
3 Pole Kit	OT200_C	OTZC13
	OT400_C	OTZC23
	OT600_C	OTZC33
	OT800_C	OTZC53
4 Pole kit	OT200_C	OTZC14
	OT400_C	OTZC24
	OT600_C	OTZC34
	OT800_C	OTZC54

Bridging bars are required on 200-600A double throw switches to operate as standard double throw switches.  
Otherwise, they will operate as two mechanically interlocked switches.

① A snap on power pole may be added to build a 4 pole 16-100A double throw switch.  
② For 16-100A double throw switches, jumpers are not provided.

# Non-fusible & fusible disconnect switch Accessories

**ABB** Disconnect switch accessories  
Non-fusible & fusible





## Standard handles & shafts ① ②



OHBS2AJ1



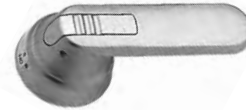
OHB\_J6



OHY\_J6



YASDA-8



OHM125L12



OHB4

### Recommended handles & shafts

Amperes	Shaft diameter	Recommended standard pistol handle length	Maximum recommended shaft length
16 - 100	6x6 mm - .24 x .24"	45 - 65 mm	290 mm
200	6x6 mm - .24 x .24"	65 - 80 mm	290 mm
400 - 1200	12x12 mm - .47 x .47"	125 - 274 mm	595 mm
1600 - 3150	12x12 mm - .47 x .47"	175 - 330 mm	595 mm

### Selector handles — for use with .24 x .24" (6mm) OXS6X shafts

UL/NEMA Type	IEC type	Color	Marking	Defeatable	Padlockable	Weight (lbs)	Catalog number
1	IP54	Black	O/I & Off/On	—	—	0.09	OHBS1AH1 ③
				—	Yes	0.12	OHBS3AH1 ③
1, 3R, 12	IP65	Black	O/I & Off/On	—	Yes	0.16	OHBS2AJ1 ③
				Yes	Yes	0.16	OHBS2AJ ③

### Pistol handles — for use with .24 x .24" (6mm) OXP6X shafts

UL/NEMA Type	IEC type	Color	Marking	Length in/mm	Defeatable	Padlockable	Weight (lbs)	Catalog number
1, 3R, 12	IP65	Black	O/I & Off/On	2.6/65	Yes	Yes	0.29	OHB65J6
				2.6/65	Yes	Yes	0.29	OHB65J6T ④
				3.1/80	Yes	Yes	0.30	OHB80J6
1, 3R, 12, 4, 4X	IP66	Black	O/I & Off/On	2.6/65	Yes	Yes	0.29	OHB65L6
				3.1/80	Yes	Yes	0.30	OHB80L6
1, 3R, 12, 4, 4X	IP66	316L Stainless steel	O/I & Off/On	2.6/65	Yes	Yes	1.60	OHM65L6
1, 3R, 12	IP65	Black w/ 316 stainless hasp	O/I & Off/On	2.6/65	Yes	Yes	0.31	OHB65J6EH
1, 3R, 12, 4, 4X	IP66	Black w/ 316 stainless hasp	O/I & Off/On	2.6/65	Yes	Yes	0.31	OHB65L6EH

### Pistol handles — for use with .47 x .47" (12mm) OXP12X shafts

UL/NEMA Type	IEC type	Color	Marking	Length in/mm	Defeatable	Padlockable	Weight (lbs)	Catalog number
1, 3R, 12	IP65	Black	O/I & Off/On	4.9/125	Yes	Yes	0.39	OHB125J12
				5.7/145	Yes	Yes	0.39	OHB145J12
				6.9/175	Yes	Yes	0.41	OHB175J12
				7.9/200	Yes	Yes	0.88	OHB200J12P
				10.8/274	Yes	Yes	1.19	OHB274J12
				13/330	Yes	Yes	1.28	OHB330J12
1, 3R, 12, 4, 4X	IP66	Black	O/I & Off/On	5.7/145	Yes	Yes	0.39	OHB145L12
				6.9/175	Yes	Yes	0.41	OHB175L12
				7.9/200	Yes	Yes	0.88	OHB200L12P
				10.8/274	Yes	Yes	1.19	OHB274L12
				13/330	Yes	Yes	1.28	OHB330L12
1, 3R, 12, 4, 4X	IP65	Metal	Off/On	8.7/220	--	Yes	1.50	YASDA-8
1, 3R, 12, 4, 4X	IP66	316L Stainless Steel	O/I & Off/On	4.9/125	Yes	Yes	1.7	OHM125L12
				6.9/175	Yes	Yes	1.8	OHM175L12
				10.8/275	Yes	Yes	2.1	OHM275L12
				7.9/200	Yes	Yes	0.88	OHM200L12P
1, 3R, 12	IP65	Black w/ 316 stainless hasp	O/I & Off/On	4.9/125	Yes	Yes	0.44	OHB125J12EH
				6.9/175	Yes	Yes	0.76	OHB175J12EH
1, 3R, 12, 4, 4X	IP66	Black w/ 316 stainless hasp	O/I & Off/On	4.9/125	Yes	Yes	0.44	OHB125L12EH
				6.9/175	Yes	Yes	0.76	OHB175L12EH

① Red/Yellow handles are available by substituting the OHB prefix with OHY.

② All handles are plastic unless otherwise noted as metal or stainless steel.

③ Not recommended for use on OT30/60/100.

④ The OS30 switch has a TEST position, accessed by rotating the mechanism 45 degrees counterclockwise from the OFF position. In the TEST position, optional auxiliary contacts, OA4B1C, are actuated but the main switch contacts are not.

## Standard handles & shafts ②

Disconnect  
switches  
Accessories

### Direct mount handle for non-fusible switches

Description	For use on	Color	Padlockable	Shaft through handle	Weight	Shaft catalog number	Switch catalog number
Mounts directly on switch. No shaft necessary	OT16-40	Black	Yes	Yes	0.05		OHBS12 ③ CXBY68989
	OT63-80	Black	Yes	Yes	0.05		OHBS2③ CXBY68998 CXBY68419/6/2M
	OT30/60/100		No				
Up to 3 padlocks in OFF-position, includes shaft and mechanism	OT200	Black	Yes	No	0.22		OTV250EK
	OT400	Black	Yes	Yes	0.44		OTV400EK
	OT600	Black	Yes	Yes	0.66		OTV800EK
	OT800	Black	Yes	Yes	0.30		OTV1000EK
	OT1200	Black	Yes	Yes	0.30		OTV1000EK
Mounts on shaft	OETL-NF1600-OETL-NF3150	Metal	No	Yes	0.80		YASDA-34

### Direct mount handle for fusible switches

For use on	Description	Marking	Color	Padlockable	Weight	Catalog number
OS30	No shaft required	O/I/Test	Black	Yes	0.10	OHBS5
OS60 - OS200	No shaft required	O/I	Black	Yes	0.30	OSV200BK
OS400	No shaft required	O/I	Black	Yes	0.30	OSV400BK
OS600	No shaft required	O/I	Black	Yes	0.30	OSV800BK
OS400-600, OES800	Mounts on 12mm shaft	—	Metal	No	0.78	YASDA-33

### 3 Position selector handles for double throw switches

UL/NEMA Type	IEC Type	Markings	Color	Defeatable	Padlockable	Weight (Lbs.)	Catalog number
1, 3R, 12	IP65	I/O/II, ON/OFF/ON	Black	Yes	Yes	0.16	OHBS2AJE011

### 3 Position pistol handles for double throw switches

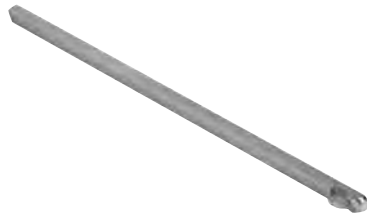
UL/NEMA Type	IEC Type	Markings	Color	Defeatable	Padlockable	Weight (Lbs.)	Catalog number	Catalog number
1, 3R, 12	IP65		Black	Yes	Yes	0.29	OHB65J6E011	OHB145J12E011
1, 3R, 12, 4, 4X	IP66	I/O/II, ON/OFF/ON	Black	Yes	Yes	0.29	OHB65L6E011	OHB145L12E011
1, 3R, 12	IP65		Black	Yes	Yes	0.3	OHB80J6E011	OHB175J12E011
1, 3R, 12, 4, 4X	IP66		Black	Yes	Yes	0.3	OHB80L6E011	OHB175L12E011

### Selector handles for door mounted switches ①

UL/NEMA Type	IEC Type	Color	Defeatable	Padlockable	Weight (lbs)	Catalog number
Snap-on mounting - for use on OT16FT3 - OT40FT3						
1	IP54	Black	—	—	0.10	OHBS1PH
1	IP54	Black	—	Yes	0.13	OHBS3PH
1, 3R, 12	IP65	Black	—	Yes	0.17	OHBS2PJ
Screw mounting - for use on OT16FT3 - OT100FT3. For OT30, OT60, and OT100 use OH_ _2_ only						
1	IP54	Black	—	—	0.11	OHBS1RH
1	IP54	Black	—	Yes	0.14	OHBS3RH
1, 3R, 12	IP65	Black	—	Yes	0.18	OHBS2RJ

- ① Red/Yellow handles are available by substituting the OHB prefix with OHY.  
 ② All handles are plastic unless otherwise noted as metal or stainless steel.  
 ③ Suitable for 3 & 4 pole versions only. Not for use with 6 or 8 pole or double throw configurations.

## Standard handles & shafts



OXS6X\_



OXP6X  
OX12X\_

### Shafts for use with selector handles – .24 x .24" (6x6 mm)

Shaft length (in/mm)	Maximum Mounting Depth (inches) ①					Weight	Catalog number
	OT16F3, OT25F3, OT40F3		OT63F3, OT80F3		OS30 ②		
	OH_1_ & OH_3_	OH_2_	OH_1_ & OH_3_	OH_2_			
3.3/85	5.0	4.3	5.6	5.0	–	0.07	OXS6X85
4.1/105	5.8	5.1	6.4	5.8	–	0.07	OXS6X105
4.7/120	6.4	5.8	7.0	6.4	–	0.08	OXS6X120
5.1/130	6.7	6.1	7.4	6.8	5.6	0.08	OXS6X130
7.1/180	8.7	8.1	9.4	8.7	6.1	0.11	OXS6X180
9.8/250	11.5	10.8	12.1	11.5	10.3	0.13	OXS6X250
13/330	14.6	14.0	15.3	14.7	13.4	0.17	OXS6X330

### Shafts for use with pistol handles – .24 x .24" (6x6 mm)

Shaft length (in/mm)	Maximum Mounting Depth (inches)								Weight	Catalog number
	OT16F3 - OT40F3	OT63F3 - OT80F3	OT30F3/60F3/100F3	OT200	OS30	OS60	OS100	OS200		
5.2/130	5.9	6.4	6.7	6.5	–	–	–	–	0.08	OX12X130
5.9/150	6.7	7.4	7.0	7.2	8.9	9.7	9.8	9.9	0.09	OX12X150
8.3/210	9.1	9.7	9.8	9.6	9.7	12.1	12.2	13.0	0.13	OX12X210
11.4/290	12.2	12.8	12.9	12.7	13.4	15.2	15.3	–	0.18	OX12X290
14.2/360	14.9	13.8	15.6	15.5	18.7	12.9	18.0	–	0.23	OX12X360
16.9/430	17.6	18.3	18.3	18.2	22.6	20.6	20.7	–	0.27	OX12X430

### Shafts for use with pistol handles – .47 x .47" (12x12 mm)

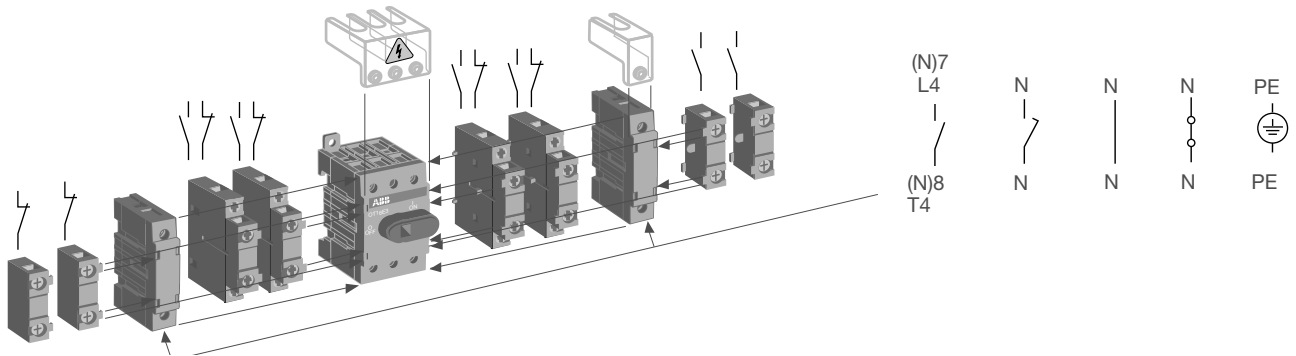
Shaft length (in/mm)	Maximum Mounting Depth (inches)						Weight	Catalog number
	OT400	OT600	OT800 - OT1200	OETL-NF1600 - OETL-NF3150	OS400	OS600 - OS1200		
11.0/280	13.3	14.6	14.5	–	13.8	14.9	0.77	OX12X280
12.8/325	15.0	16.4	16.3	20.9	15.6	16.7	0.90	OX12X325
15.6/395	20.5	19.1	19.1	23.6	18.3	19.4	1.10	OX12X395
18.3/465	21.9	21.8	21.9	26.3	21.0	22.1	1.32	OX12X465
21.1/535	22.8	24.6	24.6	29.1	23.8	24.8	1.54	OX12X535

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

② Selector handles and shafts are not recommended for use with fusible switches over 30A.

# Auxiliary contacts

Disconnect  
switches  
Accessories

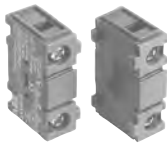


## Auxiliary contacts – snap-on mounting ①

Description	For Use On	Weight	AC Thermal amp rating	AC rated voltage	Catalog number
Form C 1 N.O. & 1 N.C.	OS30 ②	0.04	6	250	OA4B1C
1 N.O.	OT16-100, OT200-1200 OS30-OS1200	0.07	10	600	OA1G10
1 N.C.	OT16-100	0.07	10	600	OA1G01
	OT200-1200 OS30-OS1200	0.07	10	600	OA3G01
1 N.O. & 1 N.C.	OT16-100	0.07	10	600	OA2G11
Module for auxiliary contacts	OS30	0.09	–	–	OSZA
	OT200-1200 OS200-OS1200	0.1	–	–	OEA28 ③



OEA28



OA1G\_



OA2G11

## Auxiliary contacts – front mounting ④

Description	For Use On	Weight	AC Thermal amp rating	AC rated voltage	Catalog number
1 N.O. + 1 N.C.	OETL-NF1600 through OETL-NF3150	0.2	10	600	OZXK-1
2 N.O. + 2 N.C.		0.26	10	600	OZXK-2
4 N.O. + 4 N.C.		0.4	10	600	OZXK-3
2 N.O.		0.18	10	600	OZXK-4
4 N.O.		0.25	10	600	OZXK-5
8 N.O.		0.4	10	600	OZXK-6

## Auxiliary contacts – snap-on mounting for double throw

Description	For Use On	Weight (Lbs.)	AC Thermal amp rating	AC rated voltage	Catalog number
1 N.O.	OT16-100_C	0.7	10	600	OA7G10
1 N.C.	OT16-800_C	0.7	10	600	OA3G01
1 N.O.	OT200-800_C	0.7	10	600	OA1G10

## Mounting & installation considerations

### Non-Fusible

OT16-100	OA1G10 (1 N.O.) mounts on right side of switch only OA1G01 (1 N.C.) mounts on left side of switch only OA2G11 (1 N.O. & 1 N.C.) mounts on left of right side of switch Maximum two contacts on each side of switch
OT200-1200	Maximum 8 auxiliary contact blocks with the OEA28 module Maximum 4 auxiliary contact blocks mounting under the mechanisms

### Fusible

OS30	Form C contacts mount directly to switch Maximum two Form C contacts OA1G10 (1 N.O.) + OA3G01 (1 N.C.) require mounting base Maximum 6 OA1G10 + OA3G01 contacts with mounting base OSZA
OS60-1200	Mounting to left side of switch with OEA28 module: Maximum 8 contact blocks Mounting under mechanism cover: Maximum 4 contact blocks

① UL file #E83510

② Not suitable for use on cable operated flange version of OS100

③ UL File #E5707

④ Maximum 8 contact blocks (N.O. or N.C.) with the OEA28 module.

## Terminal lugs



OZXA-400



OZXA-27



OZXA-30



OZXA-32



OZXA-175/400



OZXA-24



OZXA-27



OZXA-175/400

### Terminal lugs ①

For Use On	Wire Size	Wire Type	Lugs/Kit	Weight (lbs)	Catalog number
OS100	#14-2/0	Cu/Al	6	0.50	OZXA-24 ②
OT200/OS200	#4 - 300 kcmil	Cu/Al	6	0.50	OZXA-200
	#4 - 300 kcmil		3	0.25	OZXA-200/3
	(6) 14-6 AWG		3	0.25	OZXA-206T ④
	(6) 14-6 AWG		3	0.25	OZXA-206S ④
OT/OS400	#2 - 600 kcmil	Cu/Al	6	0.50	OZXA-400
	#2 - 600 kcmil		3	0.25	OZXA-400/3P
	(2) #4 - 300 kcmil		6	0.50	OZXA-402
	(6) #14 - 6 AWG		3	0.50	OZXA-406
OT600 , OS600 - OS800	(2) #2 - 600 kcmil	Cu/Al	6	0.50	OZXA-800
	(2) #2 - 600 kcmil		3	0.50	OZXA-800/3
OT800, OT1200 & OS1200	(4) #2 - 600 kcmil	Cu/Al	6	6.90	OZXA-1200
	(4) #2 - 600 kcmil		3	3.45	OZXA-1200/3
OETL-NF1600	(4) #2 - 600 kcmil	Cu/Al	6	10.44	OZXA-28
	(4) #2 - 600 kcmil		3	5.22	OZXA-28/3
	(8) 2/0 + (2) #2 - 600 kcmil ③		3	10.44	OZXA-32
OETL-NF2000-3150	(8) #2 - 600 kcmil	Cu/Al	12	20.88	OZXA-28/2

### Terminal lug kits for double throw switches

For Use On	Wire Size	Wire Type	Lugs/Kit	Weight (Lbs)	Catalog number
OT200_C	#4 - 300kcmil #4 - 300kcmil	Cu/Al	9	0.5	OZXA-200/9
			12	0.25	OZXA-200/12
OT400_C	#2 - 600kcmil #2 - 600kcmil	Cu/Al	9	0.5	OZXA-400/9
			12	0.25	OZXA-400/12
OT600_C	(2) #2 - 600kcmil (2) #2 - 600kcmil	Cu/Al	9	0.5	OZXA-800/9
			12	0.5	OZXA-800/12
OT800_C	(4) #2 - 600 kcmil (2) #2 - 600 kcmil Cu/Al	Cu/Al	9	0.5	OZXA-1200/9
			12	0.5	OZXA-1200/12

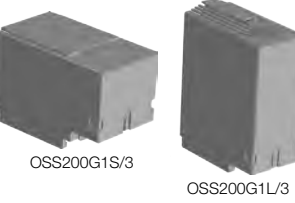
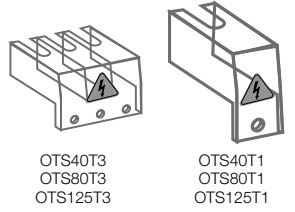
① Lugs are integral to the switch for 16-125A. No separate lug kit accessory is required.

② Not suitable for use on cable operated flange version OS100.

③ A load side distribution lug eliminates the need to purchase, install and wire a separate distribution block.

④ Comes with OZXA-175 terminal lugs and shrouds.

## Terminal shrouds



### Terminal shrouds for non-fusible

Description	For Use On	Weight	Catalog number
3 pole includes one shroud for line or load side	OT16-OT40 ②	0.02	OTS40T3
	OT63-OT80 ②	0.02	OTS63T3
	OT30-OT100 ②	0.02	OTS125T3
4th pole includes one shroud for line or load side	OTPS40FPN1 ②	0.03	OTS40T1
	OTPS80FP ②	0.03	OTS80T1
	OTPS125FP ②	0.03	OTS125T1
3 pole long type shrouds	OT200	0.12	OTS250G1L/3
3 pole short type shrouds		0.13	OTS250G1S/3
4 pole long type shrouds		0.26	OTS250G1L/4
4 pole short type shrouds		3.18	OTS250G1S/4
3 pole includes one shroud for line or load side ①	OT400	0.33	OTS403
	OT600	0.33	OTS603
3 pole includes one shroud for line or load side ①	OT800	0.88	OTS803
	OT1200	1.2	OTS1203

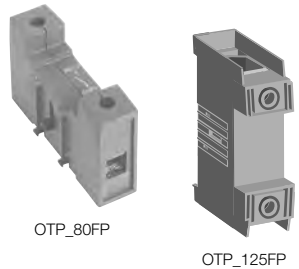
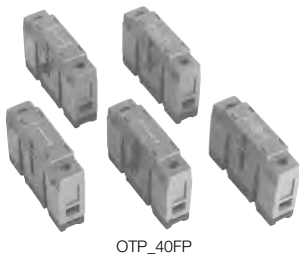
### Terminal shrouds for fusible

Description	For Use On	Weight (Lbs.)	Catalog number
Terminal shroud for one pole	OS100	0.04	OSS160GG1L/3
Terminal shroud for 3 poles	OS100	0.04	OSS160GG1S/3
3 pole long type shrouds	OS200	0.20	OSS200G1L/3
3 pole short type shrouds	OS200	0.13	OSS200G1S/3
4 Pole long type shrouds	OS200	0.26	OSS200G1L/4
4 pole Short type shrouds	OS200	0.18	OSS200G1S/4
3 Pole includes one shroud for line or load side ①	OS400	0.13	OSS403
	OS600	0.11	OSS603
3 pole short type shrouds	OS800	0.47	OSS800G1S/3
3 pole long type shrouds		1.54	OSS800G1L/3
4 pole short type shrouds		0.62	OSS800G1S/4
4 pole long type shrouds		1.54	OSS800G1L/4
3 pole short type shrouds	OS1200	0.88	OSS1250G1S/3
3 pole long type shrouds		2.12	OSS1250G1L/3
4 pole short type shrouds		1.15	OSS1250G1S/4
4 pole long type shrouds		2.2	OSS1250G1L/4

① For 4 pole shrouds, please consult factory.

② ABB OT16 - OT100 switches are IP20 touchsafe as standard. Terminal shrouds provide an extra degree of protection.

## Additional poles



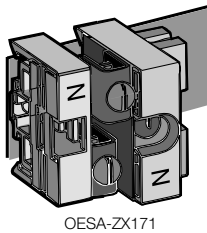
### Additional poles for non-fusible ①

**Power poles** - Only one power pole per switch: mounts on left or right side of switch. (OTPS40FPN1 mounts to left side only.)

Description	For use on	Weight	AC Thermal amp rating	AC rated voltage	Catalog number
 Fourth Pole	OT16-OT40	0.07	40	600	OTPS40FPN1 OTPS60FP OTPS80FP OTPS125FP
	OT30-OT60	0.13	60		
	OT63-OT80	0.13	80		
	OT100	0.31	100		
 Late-break/ early-make	OT16-OT40	0.07	40	600	OTPL40FP OTPL60FP OTPL80FP OTPL125FP
	OT30-OT60	0.13	60		
	OT63-OT80	0.13	80		
	OT100	0.31	100		

**Terminal poles** - Switch accepts one terminal pole per side: mounts on left or right side of switch

Description	For use on	Weight	AC Thermal amp rating	AC rated voltage	Catalog number
 Solid neutral	OT16-OT40	0.07	40	600	OTPN40FP OTPN60FD OTPN80FP OTPN125FP
	OT30-OT60	0.13	60		
	OT63-OT80	0.13	80		
	OT30-OT100	0.31	100		
 Detachable Neutral	OT16-OT40	0.07	40	600	OTPD40FP OTPD60FP OTPD80FP OTPD125FP
	OT30-OT60	0.13	60		
	OT63-OT80	0.13	80		
	OT100	0.31	60		
 Ground Terminal	OT16-OT40	0.07	40	600	OTPE40FP OTPE60FP OTPE80FP OTPE125FP
	OT30-OT60	0.13	60		
	OT63-OT80	0.13	80		
	OT100	0.31	100		



### Additional poles for fusible

Description	For use on	Weight (Lbs.)	AC Thermal amp rating	AC rated voltage	Catalog number
Detachable neutral mounts on side of switch or DIN rail	OS30	0.45	30	600	OESA-ZX171
	OS60	0.13	63	600	OSZ1
	OS100	0.31	125	600	OSZ2

① Switches accept only one power pole or one terminal pole per side. Only one power pole per switch.

## Fuse monitors & carriers



OFM\_



OSC60J\_



CXBY68362

### Fuse monitors

#### Blown fuse indicators/monitors

For Use With	Rated Voltage	Weight (lbs)	Catalog number
OS30-1200	100-240 380-600	0.31 0.31	OFM240 OFM600

Suitable for 1 or 3 phase circuits. Includes 1 N.O. and 1 N.C. auxiliary contacts and red & green LED lights for indication.

#### Fuse Monitor Mounting Accessories

For Use With	Crimp Terminal size (mm)	Catalog number
OS30-200	2.8-0.8	OFMZX2
OS400-1200 Includes 6 crimp terminals	6.3-0.8	OFMZX4

### Fuse carriers/covers

Description	For Use on	Catalog number
CC fuse carrier (Qty. 1)	OS30AFCC_	OESAZD48
J fuse carrier (Qty. 1)	OS30AFJ_	OESAZD28
Solid link carrier (Qty. 1)	OS30_	OESAZD55

### Shorting bars for fusible switches

Description	For Use On	AC thermal amp rating	AC rated voltage	Catalog number
Dummy Fuse	OS60	60	600	OESA-ZD54
Solid links: metal strap	OS100	100	600	OESA-ZS36
	OS200	400	600	OESA-ZK98



## Miscellaneous accessories Replacement parts

### Miscellaneous accessories

#### Shaft accessories

Accessory Type	Description	For Use On	Weight	Catalog number
Shaft Adapter	Adapts one end of a 6mm shaft to 12mm (use with shaft extension coupler)	6mm shafts	0.20	OETL-ZK19
Shaft Extension Coupler	Joins two shafts together for applications where extended length is required	6mm shafts 12mm shafts	0.26 0.26	OESA-ZX167 OETL-ZX95
Shaft Guide	Fits all pistol grip handles, mounts on the inside of the enclosure door with provided hardware	pistol handles	-	OHZX10

#### Busbar connections

Accessory Type	Description	For Use On	Weight	Catalog number
Busbar Connections	Vertical, back or edgewise mounting $\text{\textcircled{D}}$	OETL-NF1600 - 3150	46.2 31.0	OETL-ZX115 OETL-ZX114

#### Locking accessories

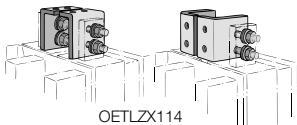
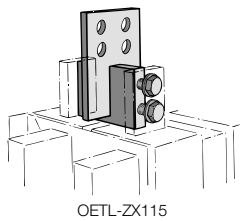
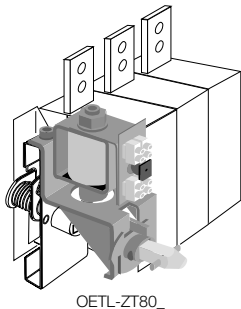
Accessory Type	Description	For Use On	Weight	Catalog number
Cam Attachment	For Kirk Key, Castell, Low & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.	OS60-OS200	0.25	OETL-ZW16
		OS400-OS1200	0.29	OETL-ZW5
Electrical Interlock	Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to O-position and L-types cannot be operated to ON- or OFF-position. Coil voltages 110VAC, 220 VAC, 24VDC, 48VDC, 60VDC, 110VDC, 220VDC, P - 15W U = 0.7 - 1.1 Un (U = coil voltage, Un = nominal voltage)	OETL-NF800 - 3150A, OES800	2.42	OETL-ZT80A $\Delta$ OETL-ZT80L $\Delta$

$\Delta$  = Coil Voltage

### Replacement parts

Accessory Type	Description	For Use On	Catalog number
<b>Non-fusible</b>			
Metal collar	Replaces original black knob for locking shaft in place	OT16-200, OS30-200	OTZS2
Set screw	Set screw for use with knob or collar	OT16-200 OS30-200	FLSWM5X8AX
Shaft set screw	Shaft set screw, bag of 10	OT400-1200	OZX1
<b>Fusible</b>			
Terminal cover	Covers terminal below fuse carrier	OS30	CXBY67121
Phase barrier	-	OS200	CXBY68794
Shaft Set Screw	-	OS30_	FLSWM5X8AX
	Bag of 10	OS400-1200	OZX1
Fuse covers	-	OS100GJ_	CXBY69058 CXBY69072

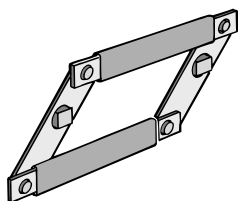
$\text{\textcircled{D}}$  Vertical busbar is provided as standard on OETL-NF1600 through OETL-NF3150 switches.



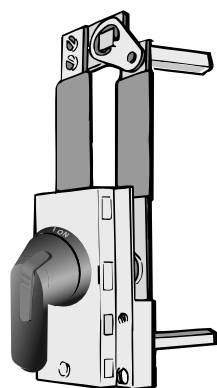
# Conversion, transfer & bypass mechanisms Mechanical interlocks

## Conversion mechanisms

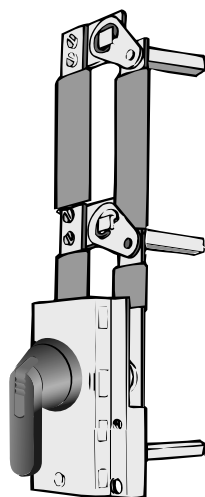
Mechanism Type	For use on	Weight	UL/Nema Type	Catalog number
6 or 8 pole mechanisms	OT16-100	0.33	-	OTZW8
	OT160	1.52	-	OETL-ZK19
	OS30-200, OT200	1.52	-	OESA-ZW2
	OT400 – OETL-NF1200	2.42	-	OETL-ZW9
Double throw mechanisms	OT16 - 160	2.20	1, 3R, 12 1, 3R, 12, 4, 4X	OESA-ZW1 OESA-ZW1X
	OT200 OS30-200	2.20	1, 3R, 12 1, 3R, 12, 4, 4X	OTZW25 OTZW25X
	OT400 – OETL-NF1200	10.10	1, 3R, 12, 4, 4X	OETL-ZW12
Bypass mechanisms	OT16-OT100	1.54	1, 3R, 12 1, 3R, 12, 4, 4X	OTZW17 OTZW17X
	OT200, OS30-200	7.28	1, 3R, 12	OTZW26
	OT400 – OETL-NF1200	8.81	1, 3R, 12, 4, 4X	OETL-ZW13
Mechanical interlock mechanisms	OT16-OT100	0.33	-	OTZW24
	OT160-200, OS30-200	0.55	-	OTZW10
	OT400 – OETL-NF800	1.26	-	OETL-ZW3
	OETL-NF1200 – OETL-NF3150	2.64	-	OETL-ZW15



OTZW8



OTZW6



OTZW17



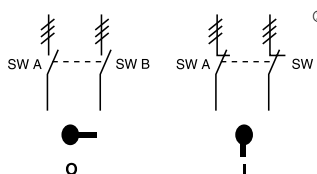
OETL-ZW24

### 6 or 8 pole

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 (see page 19.11)
- One handle<sup>Ⓛ</sup> (see page 19.30)
- Two shafts (see page 19.32)



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

X = Closed  
O = Open

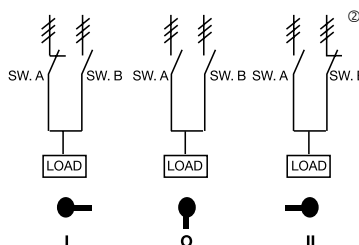
### Transfer

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

A 3-position handle is included.

Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 19.11.)



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

X = Closed  
O = Open

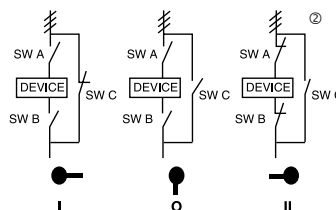
### Bypass

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

A 3-position handle is included.

Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches (see page 19.11.)



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

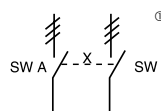
X = Closed  
O = Open

### Mechanical interlock

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 (see page 19.11)
- Two handles (see page 19.30)
- Two shafts (see page 19.32)



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

X = Closed  
O = Open

Ⓛ OT16E3 – OT32E3 can use a selector or pistol handle. All other sizes must use a pistol handle.

Ⓜ = Three poles

# Enclosed Disconnect switches

**ABB**

**Enclosed disconnect switches**

16A – 3150A Non-fusible

30A – 1200A Fusible



eOT, NF and FJ's meet customer requirements in terms of safety, ease of installation, space savings and operational convenience. They are available in a wide range of amperage ratings, are UL approved and NEMA rated to satisfy rugged industrial environments.

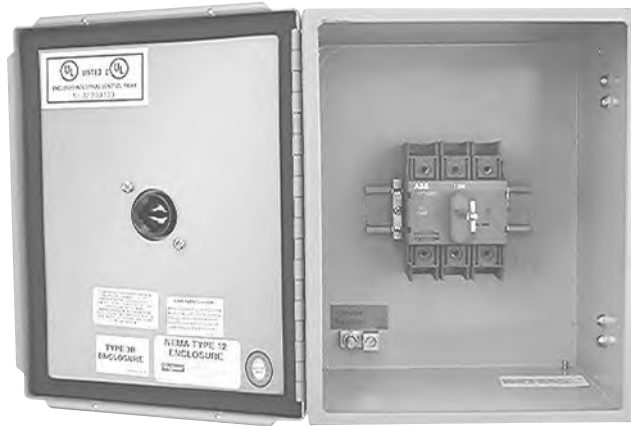
## General information

### Non-fusible, fusible & lockable

#### Non-fusible

Snap on accessories include additional poles, auxiliary contacts, etc.

Enclosures available in plastic, metal, or stainless steel in NEMA 1, 3R, 12, 4X, 7 & 9 environmental categories



Modern appearance

Quick make, quick brake mechanism

Heavy duty disconnect, 600VAC

Extremely compact size

Finger-proof construction. No hazardous exposed parts

3/4/6/8 pole constructions; transfer switches and by-pass switches available

#### Fusible

Snap on accessories include fuse monitors, auxiliary contacts, etc.

Enclosures available in plastic, metal, or stainless steel in NEMA 1, 3R, 12, 4X, 7 & 9 environmental categories



Modern appearance

Quick make, quick brake mechanism

Heavy duty disconnect, 600VAC, 200kA, I<sub>SC</sub>

Extreme compact size as fuse carriers are decked above contacts

Double contacts enabling feed from any direction and preventing back feed

Finger-proof construction. No hazardous exposed parts

3/4/6/8 pole constructions; transfer switches and by-pass switches available

#### Lockable

Clear position indications:

I-ON  
O-OFF

Door interlocked when handle padlocked to OFF position

Handle padlockable with up to three padlocks



Door interlocked when handle is in ON position. Door interlock can be defeated by authorized personnel.

Pilot devices can be added

# General information

Non-fusible, 16A - 3150A  
Fusible, 30-1200A

Disconnect  
switches  
Enclosed

## Switch ratings, 16 – 3150 Amps, 600V

UL General purpose amp rating	Maximum horsepower rating							Wire size for terminal lugs	For wire type	Approval	
	Single phase			Three phase							
	120V	200V	240V	200V – 208V	240V	480V	600V				
UL 508	16	1	2	2	3	5	10	10	#18 – 8	Cu	UL
	25	1.5	3	3	7.5	7.5	15	20	#18 – 8	Cu	UL
	40	2	5	5	10	10	20	25	#18 – 8	Cu	UL
	60	2	5	5	15	15	30	30	#14 – 1	Cu	UL
	80	2	5	5	20	20	40	40	#14 – 1	Cu	UL
UL 98	30	2	5	5	10	10	20	30	#14 – 4	Cu	UL
	60	3	7.5	7.5	20	20	40	40	#14 – 4	Cu	UL
	100	5	15	15	25	30	50	50	#8 – 1/0	Cu	UL
	125	7.5	20	20	30	30	75	100	#8 – 1/0	Cu	UL
	200	—	—	—	60	75	150	200	#6 – 300 kcmil	Cu	UL
	400	—	—	—	100	125	250	350	#2 – 600 kcmil	Cu	UL
	600	—	—	—	150	200	400	500	(2) #2 – 600 kcmil	Cu	UL
	800	—	—	—	200	250	500	600	(2) #2 – 600 kcmil	Cu/Al	UL
	1200	—	—	—	—	—	—	—	(4) #2 – 600 kcmil	Cu/Al	UL
	1600	—	—	—	—	—	—	—	(4) #2 – 600 kcmil	Cu/Al	UL
	2000	—	—	—	—	—	—	—	(8) #2 – 600 kcmil	Cu/Al	UL
3150 ①	—	—	—	—	—	—	—	(8) #2 – 600 kcmil	Cu/Al	IEC	

## Handle ratings

Catalog number suffix	Style type	NEMA	Color	Marking	Defeatable	Padlockable	Catalog number
S	Selector	1,3R,12	Black	O/I & OFF/ON	Yes	Yes	OHBS2AJ
S1	Selector	1,3R,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHYS2AJ
P	Pistol	1,3R,12	Black	O/I & OFF/ON	Yes	Yes	OHBS65J6
P	Pistol	1,3R,4,4X,12	Black	O/I & OFF/ON	Yes	Yes	OHBS65L6
P1	Pistol	1,3R,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHYS65J6
P1	Pistol	1,3R,4,4X,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHYS65L6
BJ	Selector	1,3R,12	Black	O/I & OFF/ON	Yes	Yes	OHBS2AJ
YJ	Selector	1,3R,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHYS2AJ
B4	Pistol	1,3R,12	Black	O/I & OFF/ON	Yes	Yes	OHB145J12
B4	Pistol	1,3R,12	Black	I/O/II	Yes	Yes	OHB145J12E011
B4	Pistol	1,3R,4,4X,12	Black	I/O/II	Yes	Yes	OHB145L12E011
Y4	Pistol	1,3R,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHY145J12
B6	Pistol	1,3R,4,4X,12	Black	O/I & OFF/ON	Yes	Yes	OHBS65J6
Y6	Pistol	1,3R,4,4X,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHYS65L6
B7	Pistol	1,3R,4,4X,12	Black	O/I & OFF/ON	Yes	Yes	OHB175J12
B7	Pistol	1,3R,12	Black	I/O/II	Yes	Yes	OHB175J12E011
B7	Pistol	1,3R,4,4X,12	Black	I/O/II	Yes	Yes	OHB175L12E011
Y7	Pistol	1,3R,4,4X,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHY175L12
B8	Pistol	1,3R,4,4X,12	Black	O/I & OFF/ON	Yes	Yes	OHB80L6
B8	Pistol	1,3R,12	Black	I/O/II	Yes	Yes	OHB80J6E011
B8	Pistol	1,3R,4,4X,12	Black	I/O/II	Yes	Yes	OHB80L6E011
Y8	Pistol	1,3R,4,4X,12	Red/Yel	O/I & OFF/ON	Yes	Yes	OHY80L6
6	Pistol	1,3R,4,4X,12	Black	I/O/II	No	Yes	OHB174L12E011
8	Pistol	1,3R,4,4X,12	Metal	O/I & OFF/ON	No	Yes	YASDA-8
21	Pistol	1,3R,4,4X,12	Metal	I/O/II	No	Yes	YASDA-21
21	Pistol	1,3R,4,4X,12	Black	I/O/II	No	Yes	OHB274L12E011

① IEC rated only.

② Switches are for double throw.

**Disconnect  
switches  
Enclosed**

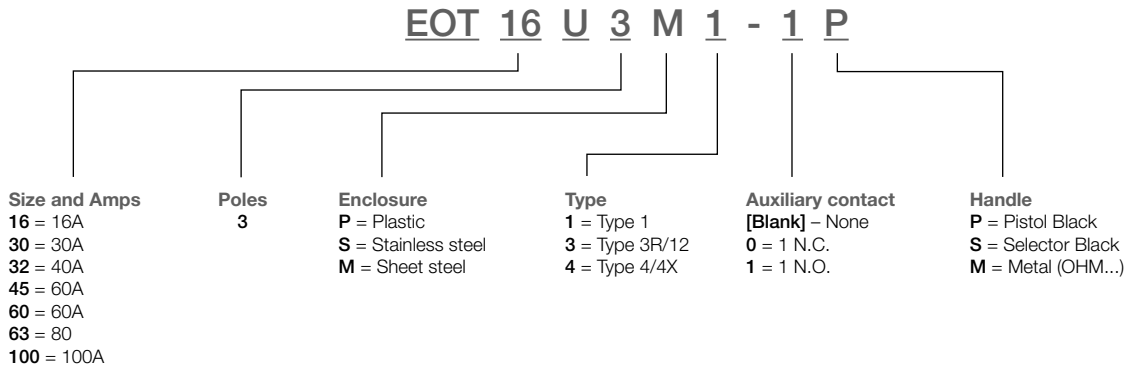
# General information

## Fusible, 30A – 1200A

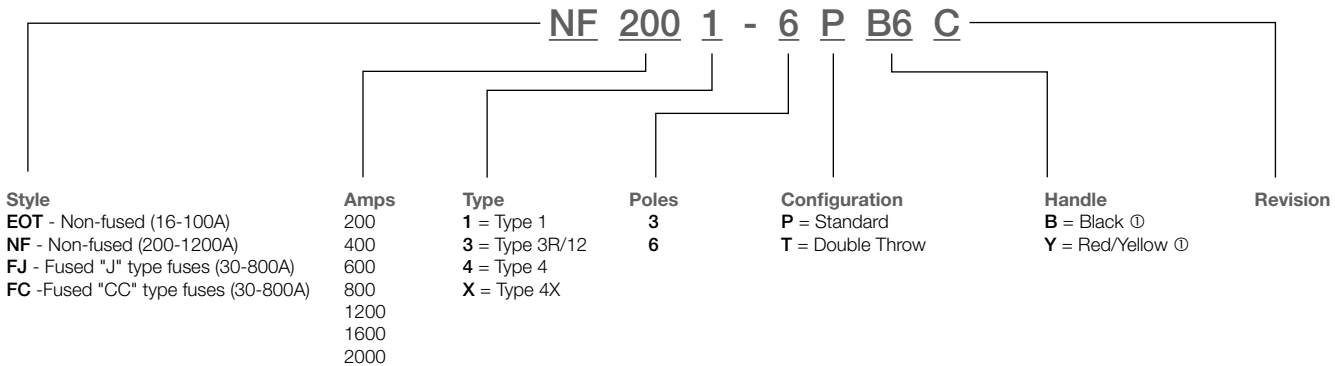
### Switch ratings

UL 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, UL
60	3	7.5	10	15	15	15	30	50	#14 – 4	Cu	CSA, UL
100	5	10	15	25	25	30	60	75	#14 – 2/0	Cu/Al	CSA, UL
200	–	–	–	50	50	60	125	150	#6 – 300 kcmil	Cu/Al	CSA, UL
400	–	–	–	100	125	125	250	350	#2 – 600 kcmil	Cu/Al	CSA, UL
600	–	–	–	150	150	200	400	500	(2) #2 – 600 kcmil	Cu/Al	CSA, UL
800	–	–	–	200	200	250	500	600	(2) #2 – 600 kcmil	Cu/Al	CSA, UL
1200	–	–	–	–	–	–	–	–	(4) #2 – 600 kcmil	Cu/Al	CSA, UL

### Enclosed non-fused, 3 poles, 16 to 100 A



### Enclosed non-fusible, 200 - 1200 A and specialty configurations



*Custom versions or other versions of enclosed products are available upon request... please consult factory.*

① Fusible switches are UL listed to the UL98 standard.

# 3 pole Non-fusible, 16A – 3150A

Disconnect  
switches  
Enclosed



NF32X-3PB6C



EOT16U3P3-S



EOT63U3M1-P

## 3 pole, 600V, 16-80A Selector handle

UL general purpose amp rating	UL/NEMA Enclosure Type			
	1	3R/12	4/4X	3R/12 Plastic
	Catalog number	Catalog number	Catalog number	Catalog number
16	EOT16U3M1-S	EOT16U3M3-S	Not available with selector handles	EOT16U3P3-S
40	EOT32U3M1-S	EOT32U3M3-S		EOT32U3P3-S
60	EOT45U3M1-S	EOT45U3M3-S		EOT45U3P3-S
80	EOT63U3M1-S	EOT63U3M3-S		EOT63U3P3-P

## 3 pole, 600V, 16-100A Pistol handle

UL general purpose amp rating	UL/NEMA Enclosure Type					
	1	3R/12	4	4X Stainless	4X Plastic	7 & 9
	Catalog number	Catalog number	Catalog number	Catalog number	Catalog number	Catalog number
16	EOT16U3M1-P	EOT16U3M3-P	-	EOT16U3S4-P	EOT16U3P4-P	NF167-3P
40	EOT32U3M1-P	EOT32U3M3-P	-	EOT32U3S4-P	EOT32U3P4-P	NF327-3P
60	EOT45U3M1-P	EOT45U3M3-P	-	EOT45U3S4-P	EOT45U3P4-P	NF457-3P
80	EOT63U3M1-P	EOT63U3M3-P	-	EOT63U3S4-P	EOT63U3P4-P	NF637-3P
30	EOT30U3M1-P	EOT30U3M3-P	-	EOT30U3S4-P	NF30P-3PB6C	NF307-3P
60	EOT60U3M1-P	EOT60U3M3-P	-	EOT60U3S4-P	NF60P-3PB6C	NF607-3P
100	EOT100U3M1-P	EOT100U3M3-P	-	EOT100U3S4-P	NF100P-3PB8C	NF1007-3P

## 3 Pole, 600V, 200A – 3150A Pistol handle

UL general purpose amp rating	UL/NEMA Enclosure Type					
	1	3R/12	4	4X Stainless	4X Plastic	7 & 9
	Catalog number	Catalog number	Catalog number	Catalog number	Catalog number	Catalog number
200	NF2001-3PB8B	NF2003-3PB8B	NF2004-3PB8B	NF200X-3PB8B	NF200P-3PB8B	—
400	NF4001-3PB4B	NF4003-3PB4B	NF4004-3PB4B	NF400X-3PB4B	NF400P-3PB4B	—
600	NF6001-3PB7B	NF6003-3PB7B	NF6004-3PB7B	NF600X-3PB7B	NF600P-3PB7B	—
800	NF8001-3PB4A	NF8003-3PB4A	NF8004-3PB4A	NF800X-3PB4A	NF800P-3PB4A	—
1200	NF12001-3PB4A	NF12003-3PB4A	NF12004-3PB4A	NF1200X-3PB4A	NF1200P-3PB4A	—
1600	NF16001-3P8A	NF16003-3P8A	NF16004-3P8A	NF1600X-3P8A	—	—
2000	NF20001-3P8A	NF20003-3P8A	NF20004-3P8A	NF2000X-3P8A	—	—
3150 ①	NF31501-3P8A	NF31503-3P8A	NF31504-3P8A	NF3150X-3P8A	—	—

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle if desired.

EXAMPLE: A red/yellow selector handle for an EOT16U3M1-S can be substituted for the black selector handle by using the "S1" suffix instead of the "S" suffix, new catalog #EOT16U3M1-S1.

① IEC rated only.  
② New Washdown.

Disconnect  
switches  
Enclosed

## 6 pole Non-fusible, 16A – 1200A

6 pole, 600V, 16-1200A

Pistol handle

UL general purpose amp rating	UL/NEMA Enclosure Type					
	1	3R/12	4	4X Stainless	4X Plastic	7
	Catalog number	Catalog number	Catalog number	Catalog number	Catalog number	Catalog number
16	NF161-6PB6C	NF163-6PB6C	NF164-6PB6A	NF16X-6PB6C	NF16P-6PB6A	NF167-6P
25	NF251-6PB6C	NF253-6PB6C	NF254-6PB6A	NF25X-6PB6C	NF25P-6PB6A	NF257-6P
40	NF321-6PB6C	NF323-6PB6C	NF324-6PB6A	NF32X-6PB6C	NF32P-6PB6A	NF327-6P
60	NF451-6PB6B	NF453-6PB6B	NF454-6PB6B	NF45X-6PB6B	NF45P-6PB6B	NF457-6P
80	NF631-6PB6A	NF633-6PB6A	NF634-6PB6A	NF63X-6PB6A	NF63P-6PB6A	NF637-6P
30	NF301-6PB6B	NF303-6PB6B	NF304-6PB6B	NF30X-6PB6B	NF30P-6PB6B	–
60	NF601-6PB6C	NF603-6PB6B	NF604-6PB6B	NF60X-6PB6B	NF60P-6PB6B	–
100	NF1001-6PB6B	NF1003-6PB6B	NF1004-6PB6B	NF100X-6PB6B	NF100P-6PB6B	–
125	NF1251-6PB2A	NF1253-6PB2A	NF1254-6PB4A	NF125X-6PB4A	NF125P-6PB4A	–
200	NF2001-6PB4B	NF2003-6PB4B	NF2004-6PB4B	NF200X-6PB4B	NF200P-6PB4B	–
400	NF4001-6PB8B	NF4003-6PB8B	NF4004-6PB8B	NF400X-6PB8B	NF400P-6PB8B	–
600	NF6001-6PB8B	NF6003-6PB8B	NF6004-6PB8B	NF600X-6PB8B	NF600P-6PB8B	–
800	NF8001-6PB8A	NF8003-6PB4A	NF8004-6PB4A	NF800X-6PB8A	NF800P-6PB8A	–
1200	NF12001-6P8A	NF12003-6PB4A	NF12004-6P8A	NF1200X-6P8A	NF1200P-6P8A	–

3 Pole double throw

3 pole, 600V, 16-1200A

Pistol handle

UL general purpose amp rating	UL/NEMA Enclosure Type				
	1	3R/12	4	4X Stainless	4X Plastic
	Catalog number	Catalog number	Catalog number	Catalog number	Catalog number
16	NF161-3TB8C	NF163-3TB8C	NF164-3TB8C	NF16X-3TB8C	NF16P-3TB8A
25	NF251-3TB8C	NF253-3TB8C	NF254-3TB8C	NF25X-3TB8C	NF25P-3TB8A
40	NF321-3TB8C	NF323-3TB8C	NF324-3TB8C	NF32X-3TB8C	NF32P-3TB8A
60	NF451-3TB8B	NF453-3TB8B	NF454-3TB8B	NF45X-3TB8B	NF45P-3TB8B
80	NF631-3TB8A	NF633-3TB8A	NF634-3TB8A	NF63X-3TB8A	NF63P-3TB8A
30	NF301-3TB8B	NF303-3TB8B	NF304-3TB8B	NF30X-3TB8B	NF30P-3TB8B
60	NF601-3TB8B	NF603-3TB8B	NF604-3TB8B	NF60X-3TB8B	NF60P-3TB8B
100	NF1001-3TB8B	NF1003-3TB8B	NF1004-3TB8B	NF100X-3TB8B	NF100P-3TB8B
125	NF1251-3TB8A	NF1253-3TB8A	NF1254-3TB8A	NF125X-3TB8A	NF125P-3TB8A
200	NF2001-3TB4B	NF2003-3TB4B	NF2004-3TB4B	NF200X-3TB4B	NF200P-3TB4B
400	NF4001-3TB4B	NF4003-3TB4B	NF4004-3TB4B	NF400X-3TB4B	NF400P-3TB4B
600	NF6001-3TB4A	NF6003-3TB4B	NF6004-3TB4A	NF600X-3TB4A	NF600P-3TB4A
800	NF8001-3TB4A	NF8003-3TB4A	NF8004-3TB4A	NF800X-3TB4A	NF800P-3TB4A
1200	NF12001-3TB4A	NF12003-3TB4A	NF12004-3TB4A	NF1200X-3TB4A	NF1200P-3TB4A



# 3 Pole Fusible, 30A – 800A

Disconnect  
switches  
Enclosed



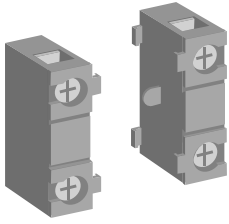
FJ30X-3PB6B

## 3 pole, 600V, 30-800A Pistol handle

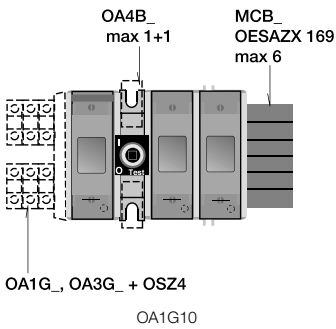
UL general purpose amp rating	Fuse Type	UL/NEMA Enclosure Type				
		1	3R/12	4	4X Stainless	4X Plastic
		Catalog number	Catalog number	Catalog number	Catalog number	Catalog number
30	J	FJ301-3PB6B	FJ303-3PB6B	FJ304-3PB6B	FJ30X-3PB6B	FJ30P-3PB6B
30	CC	FC301-3PB6B	FC303-3PB6B	FC304-3PB6B	FC30X-3PB6B	FC30P-3PB6B
60	J	FJ601-3PB6B	FJ603-3PB6B	FJ604-3PB8B	FJ60X-3PB8B	FJ60P-3PB8B
100	J	FJ1001-3PB8B	FJ1003-3PB8B	FJ1004-3PB8B	FJ100X-3PB8B	FJ100P-3PB8B
200	J	FJ2001-3PB8C	FJ2003-3PB8C	FJ2004-3PB8C	FJ200X-3PB8C	FJ200P-3PB8C
400	J	FJ4001-3PB4C	FJ4003-3PB4C	FJ4004-3PB4C	FJ400X-3PB4C	FJ400P-3PB4C
600	J	FJ6001-3PB7C	FJ6003-3PB7C	FJ6004-3PB7C	FJ600X-3PB7C	FJ600P-3PB7C
800	L	FL8001-3PB4B	FL8003-3PB4B	FL8004-3PB4B	FL800X-3PB4B	FL800P-3PB4

Disconnect  
switches  
Enclosed

## Accessories Fusible



OA4B1C



### Auxiliary contacts

For use on:	Contact configuration	Catalog number
30A	1 N.O. + 1 N. C.	OA4B1C
	2 N.O. + 2 N.C.	
60-1200	1 N.O.	OA1G10
	1 N.C.	OA3G01

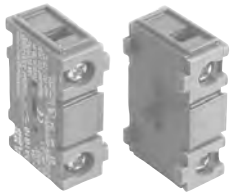
### Accessories

For use on:	Description	Installation suffix code
30A	Neutral block	N
60A – 100A	Neutral block	N
200A – 400A	Neutral block	N
600A – 800A	Neutral block	N
30A – 200A	Service entrance, 3 wire	U
	Service entrance, 4 wire	V
400A – 800A	Service entrance, 3 wire	U
	Service entrance, 4 wire	V

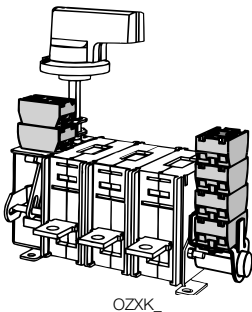
## Accessories Non -fusible

### Auxiliary contacts

For use on:	Contact configuration	Catalog number
16A – 100A	1 N.O.	OA1G10
	1 N.C.	OA1G01
	1 N.O. & 1 N.C.	OA2G11
200A - 1200A	1 N.O.	OA1G10
	1 N.C.	OA3G01
1600A – 3150A	1 N.O. & 1 N.C.	OZXK-1
	2 N.O. & 2 N.C.	OZXK-2



OA1G\_



### Accessories

For use on:	Description	Installation suffix code
EOT16, 32	Neutral or isolated ground block	N or G
EOT45, 63	Neutral or isolated ground block	N or G
OT30, 60, 100	Neutral or isolated ground block	N or G
NF200 – 1200A	Neutral block	N
NF1600 – 3150A	Neutral block	N
NF200 – 1200A	Service entrance, 3 wire	U
NF200 – 1200A	Service entrance, 4 wire	V

# Type OM, ON, & OL Cam switches

## ABB Cam switches

### Cam switches OM, ON & OL (10A, 25A, 40A, 80A, 125A, 160A & 200A)

Complete range of standard and special cam switches for door and base mounting



Complete delivery includes handle and front plate. Snap-on mounting of contact block with interlocking

Protected terminals and interconnections. Self lifting plus-minus screws for fast assembly.

Handle, color black or grey. Padlockable handle, color black or red-yellow.



Keylock and cylinder lock solutions



## General Information

### Door mounting cam switches

- IP 65
- NEMA 4X outdoor (ON, OL40)
- Key operated switch, IP54
- OM, Miniature
- ON, Normal
- OL, Large

#### Door drilling

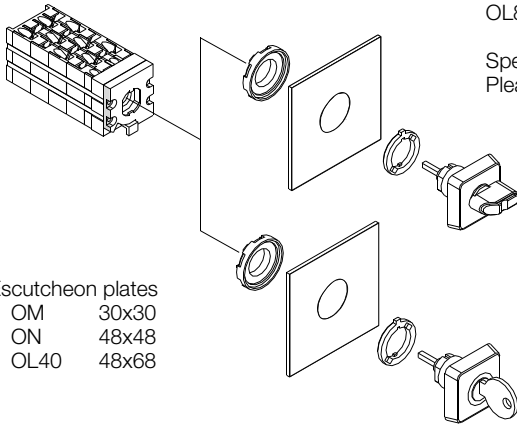
OM: Ø 16.5mm / Ø 22.5mm

ON: Ø 22.5mm / Ø 30.5mm

OL40: Ø 22.5mm / Ø 30.5mm

Maximum panel thickness 5.5 mm.

The black handle with square escutcheon plate marked for switch type is supplied with the switch body. Optional adaptor ring available for 30.5 mm hole.



Escutcheon plates

OM	30x30
ON	48x48
OL40	48x68

### DIN-rail mounting

- P 44
- ON, Modular



### Number of contacts

OM: 16 contacts

ON: 20 contacts

ON\_M: 6 contacts

OL40: 20 contacts

OL80, 125, 160, 200: 24 contacts

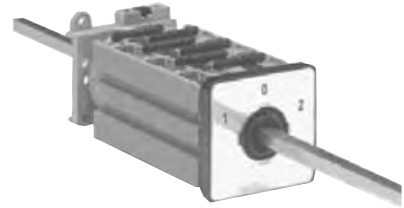
Special switches up to 60 contacts  
Please consult with us.

### Features:

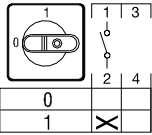
- Complete delivery for easy purchasing and assembly
- Standard delivery with black handle, alt. grey or red yellow handle
- Small panel size: front space in side to side mounting 30 mm or 50 mm up to 25 A
- Finger protected terminals and interconnections (IP20, VBG4)
- Self lifting screws, terminal screws for fast cabling
- Double break silver contacts with 0,35 µm gold grid ensure a high breaking capacity and reliable connection.

Also available with solid golden contacts for extremely difficult circumstances. Have to be ordered separately, please add G to the type, e.g; OMA 1 PBG.

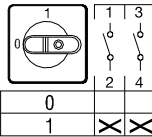
- Fast special engraving service available
- Metallic shaft as special version
- Fast-on terminals available as special version



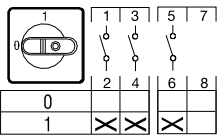
# ON-OFF Switches



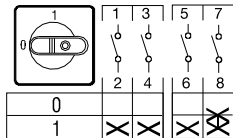
O\_A1\_



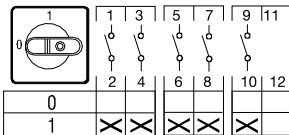
O\_A2\_



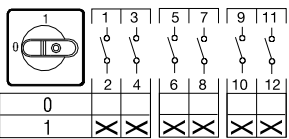
O\_A3\_



O\_A4\_



O\_A5\_



O\_A6\_

Black handle and front plate with standard text are included. The type and the ordering number are for one piece.  
Special engraved front-plates to be ordered as separate items.

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
----------	-----------------	---------------------------	-------------	----------------

## Rotating angle 90°, O-position: 9 o'clock

Miniature, door mounted

0 - 1	1	10	0.04	OMA1PB
	2	10	0.04	OMA2PB
	3	10	0.05	OMA3PB
0 - 1	4	10	0.05	OMA4PB
	5	10	0.06	OMA5PB
	6	10	0.06	OMA6PB

Normal, door mounted

0 - 1	1	25	0.08	ONA1PB
	2	25	0.09	ONA2PB
	3	25	0.10	ONA3PB
0 - 1	4	25	0.11	ONA4PB
	5	25	0.12	ONA5PB
	6	25	0.12	ONA6PB

Large, door mounted

0 - 1	1	40	0.13	OL40A1PB
	2	40	0.17	OL40A2PB
	3	40	0.21	OL40A3PB
0 - 1	4	40	0.25	OL40A4PB
	5	40	0.29	OL40A5PB
	6	40	0.33	OL40A6PB

Modular, DIN-rail mounted

0 - 1	1	25	0.09	ONA1M
	2	25	0.10	ONA2M
	3	25	0.11	ONA3M
	6	25	0.12	ONA6M

## Key operated, withdrawable in both positions, rotating angle 90°, O-position: 9 o'clock ①

Miniature, door mounted

0 - 1	1	10	0.06	OMA1KB
	3	10	0.07	OMA3KB

Normal, door mounted 90°

0 - 1	1	25	0.11	ONA1KB
	3	25	0.13	ONA3KB

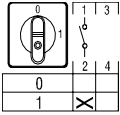
Packing sizes: OM 130 x 100 x 120 [mm]  
ON, OL 250 x 100 x 110 [mm]

① Different withdrawability of key is also possible to be ordered as special switch.

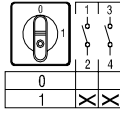
Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

# ON-OFF Switches

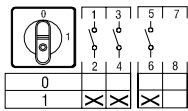
## Change-over switches



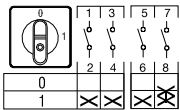
O\_A01\_



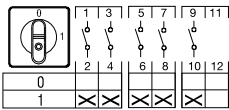
O\_A02\_



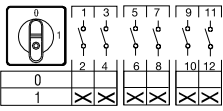
O\_A03\_



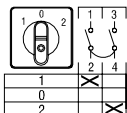
O\_A04\_



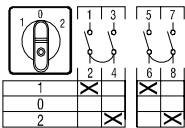
O\_A05\_



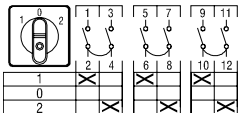
O\_A06\_



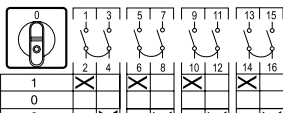
O\_U1\_



O\_U2\_



O\_U3\_



O\_U4\_

### ON - OFF switches

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.

Special engraved front plates to be ordered as separate items.

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
----------	-----------------	---------------------------	-------------	----------------

#### Rotating angle 90°, O-position: 12 o'clock

Miniature, door mounted

0 - 1	1	10	0.04	OMA01PB
	2	10	0.04	OMA02PB
	3	10	0.05	OMA03PB
0 - 1	4	10	0.05	OMA04PB
	5	10	0.06	OMA05PB
	6	10	0.06	OMA06PB

Normal, door mounted

0 - 1	1	25	0.08	ONA01PB
	2	25	0.09	ONA02PB
	3	25	0.10	ONA03PB
0 - 1	4	25	0.11	ONA04PB
	5	25	0.12	ONA05PB
	6	25	0.12	ONA06PB

Modular, DIN-rail mounted

0 - 1	1	25	0.09	ONA01M
	2	25	0.10	ONA02M
	3	25	0.11	ONA03M
	6	25	0.12	ONA06M

#### Key operated, withdrawable in both positions, rotating angle 90°, O-position: 12 o'clock

Miniature, door mounted

0 - 1	1	10	0.06	OMA01KB
	3	10	0.07	OMA03KB

Normal, door mounted

0 - 1	1	25	0.11	ONA01KB
	3	25	0.13	ONA03KB

### Change-over switches

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.

Special engraved front plates to be ordered as separate items.

#### Rotating angle 60° - 0 - 60°

Miniature, door mounted

1 - 0 - 2	1	10	0.05	OMU1PB
	2	10	0.06	OMU2PB
	3	10	0.06	OMU3PB
	4	10	0.07	OMU4PB

Normal, door mounted

1 - 0 - 2	1	25	0.09	ONU1PB
	2	25	0.11	ONU2PB
	3	25	0.13	ONU3PB
	4	25	0.14	ONU4PB

Large, door mounted

1 - 0 - 2	1	40	0.17	OL40U1PB
	2	40	0.25	OL40U2PB
	3	40	0.33	OL40U3PB
	4	40	0.41	OL40U4PB

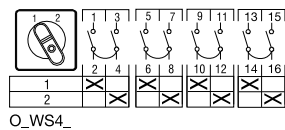
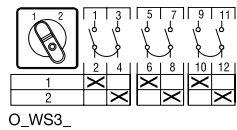
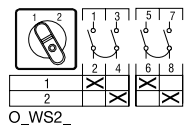
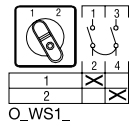
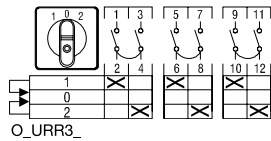
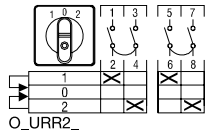
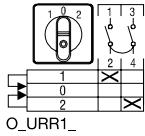
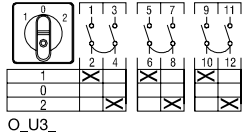
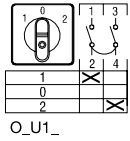
Modular, DIN-rail mounted

1 - 0 - 2	1	25	0.09	ONU1M
	2	25	0.11	ONU2M
	3	25	0.13	ONU3M
	4	25	0.14	ONU4M

Packing sizes: OM 130 x 100 x 120 [mm]  
ON, OL 250 x 100 x 110 [mm]

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

# Change-over switches



Black handle and front plate with standard text are included. The type and the ordering number are for one piece. Special engraved front plates to be ordered as separate items.

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
----------	-----------------	---------------------------	-------------	----------------

### Key operated, with 0-position, withdrawable in all positions

Miniature, door mounted

1 - 0 - 2	1	10	0.07	OMU1KB
	3	10	0.08	OMU3KB

Normal, door mounted

1 - 0 - 2	1	25	0.12	ONU1KB
	3	25	0.13	ONU3KB

1<sub>R</sub> - 0 - 2<sub>R</sub>, with two sided spring return

Miniature, door mounted

1 <sub>R</sub> - 0 - 2 <sub>R</sub>	1	10	0.05	OMURR1PB
	3	10	0.06	OMURR3PB

Normal, door mounted

1 <sub>R</sub> - 0 - 2 <sub>R</sub>	1	25	0.09	ONURR1PB
	2	25	0.11	ONURR2PB
	3	25	0.12	ONURR3PB

Large, door mounted

1 <sub>R</sub> - 0 - 2 <sub>R</sub>	1	45	0.17	OL40URR1PB
	2	45	0.25	OL40URR2PB
	3	45	0.33	OL40URR3PB

Modular, DIN-rail mounted

1 <sub>R</sub> - 0 - 2 <sub>R</sub>	1	25	0.09	ONURR1M
-------------------------------------	---	----	------	---------

### Without 0-position

Miniature, door mounted

1 - 2	1	10	0.09	OMWS1PB
	2	10	0.11	OMWS2PB
	3	10	0.13	OMWS3PB
	4	10	0.14	OMWS4PB

Normal, door mounted

1 - 2	1	25	0.09	ONWS1PB
	2	25	0.11	ONWS2PB
	3	25	0.13	ONWS3PB
	4	25	0.14	ONWS4PB

Large, door mounted

1 - 2	1	40	0.17	OL40WS1PB
	2	40	0.25	OL40WS2PB
	3	40	0.33	OL40WS3PB
	4	40	0.41	OL40WS4PB

Modular, DIN-rail mounted

1 - 2	1	25	0.09	ONWS1M
	2	25	0.11	ONWS2M
	3	25	0.13	ONWS3M
	4	25	0.14	ONWS4M

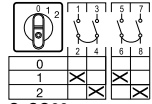
Packing sizes: OM 130 x 100 x 120 [mm]  
ON, OL 250 x 100 x 110 [mm]

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

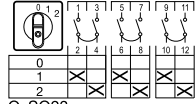
# Multi-step switches



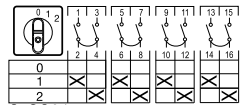
O\_SO21\_



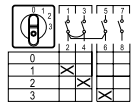
O\_SO22\_



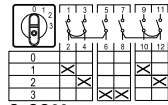
O\_SO23\_



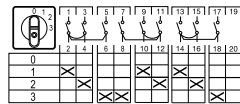
O\_SO24\_



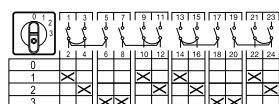
O\_SO31\_



O\_SO32\_



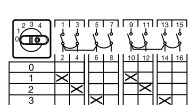
O\_SO33\_



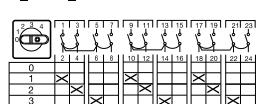
O\_SO34\_



O\_SO41\_



O\_SO42\_



O\_SO43\_

Black handle and front plate with standard text are included. The type and the ordering number are for one piece. Special engraved front plates to be ordered as separate items..

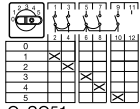
Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
<b>2- step, with O-position</b>				
Miniature, door mounted				
0 - 1 - 2	1	10	0.04	OMSO21PB
	2	10	0.05	OMSO22PB
	3	10	0.06	OMSO23PB
	4	10	0.07	OMSO24PB
Normal, door mounted				
0 - 1 - 2	1	25	0.10	ONSO21PB
	2	25	0.12	ONSO22PB
	3	25	0.13	ONSO23PB
	4	25	0.14	ONSO24PB
Modular, DIN-Rail mounted				
0 - 1 - 2	1	25	0.10	ONSO21M
<b>3- step, with O-position</b>				
Miniature, door mounted				
0 - 1 - 2 - 3	1	10	0.05	OMSO31PB
	2	10	0.06	OMSO32PB
	3	10	0.07	OMSO33PB
	4	10	0.08	OMSO34PB
Normal, door mounted				
0 - 1 - 2 - 3	1	25	0.10	ONSO31PB
	2	25	0.12	ONSO32PB
	3	25	0.13	ONSO33PB
	4	25	0.14	ONSO34PB
Large, door mounted				
0 - 1 - 2 - 3	1	45	0.41	OL40SO31PB
Modular, DIN-rail mounted				
0 - 1 - 2 - 3	1	25	0.11	ONSO31M
<b>3- step, with O-position</b>				
Miniature, door mounted				
1 - 2 - 3	1	10	0.05	OMST31PB
	2	10	0.06	OMST32PB
	3	10	0.07	OMST33PB
	4	10	0.08	OMST34PB
Normal, door mounted				
1 - 2 - 3	1	25	0.10	ONST31PB
	2	25	0.12	ONST32PB
	3	25	0.13	ONST33PB
	4	25	0.14	ONST34PB
Modular, DIN-rail mounted				
1 - 2 - 3	1	25	0.10	ONST31M
<b>4- step, with O-position</b>				
Miniature, door mounted				
0 - 1 - 2 - 3 - 4	1	10	0.05	OMSO41PB
	2	10	0.06	OMSO42PB
	3	10	0.07	OMSO43PB
Normal, door mounted				
0 - 1 - 2 - 3 - 4	1	25	0.11	ONSO41PB
	2	25	0.12	ONSO42PB
	3	25	0.13	ONSO43PB
<b>4- step, without O-position</b>				
Miniature, door mounted				
1 - 2 - 3 - 4	1	10	0.05	OMST41PB
	2	10	0.06	OMST42PB
	3	10	0.07	OMST43PB
Normal, door mounted				
1 - 2 - 3 - 4	1	25	0.11	ONST41PB
	2	25	0.12	ONST42PB
	3	25	0.13	ONST43PB

Packing sizes: OM 130 x 100 x 120 [mm]  
 ON, OL 250 x 100 x 110 [mm]

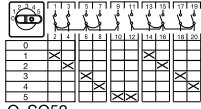
Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.



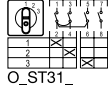
# Multi-step switches



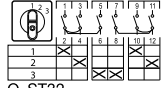
O\_SO51\_



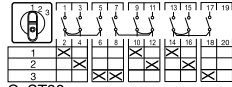
O\_SO52\_



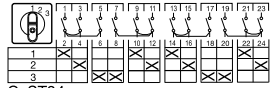
O\_ST31\_



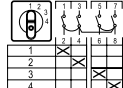
O\_ST32\_



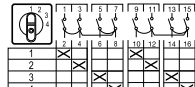
O\_ST33\_



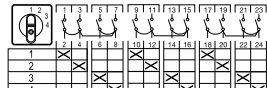
O\_ST34\_



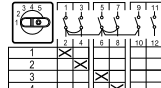
O\_ST41\_



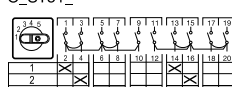
O\_ST42\_



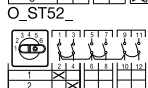
O\_ST43\_



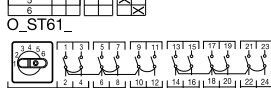
O\_ST51\_



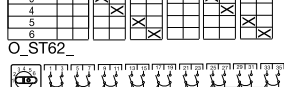
O\_ST52\_



O\_ST61\_



O\_ST62\_



O\_ST63\_

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.  
Special engraved front plates to be ordered as separate items.

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
----------	-----------------	---------------------------	-------------	----------------

### 5- step, with O-position

Miniature, door mounted

0 - 1 - 2 - 3 - 4 - 5	1	10	0.06	OMSO51PB
	2	10	0.08	OMSO52PB

Normal, door mounted

0 - 1 - 2 - 3 - 4 - 5	1	25	0.12	ONSO51PB
	2	25	0.14	ONSO52PB

### 5- step, without O-position

Miniature, door mounted

0 - 1 - 2 - 3 - 4 - 5	1	10	0.06	OMST51PB
	2	10	0.08	OMST52PB

Normal, door mounted

0 - 1 - 2 - 3 - 4 - 5	1	25	0.12	ONST51PB
	2	25	0.14	ONST52PB

### 6- step, with O-position

Normal, door mounted

1-2-3-4-5-6	1	25	0.115	ONSO61PB
	2	25	0.19	ONSO62PB
	3	25	0.265	ONSO63PB

Large, door mounted

1-2-3-4-5-6	1	40	0.185	OL40SO61PB
	2	40	0.305	OL40SO62PB
	3	40	0.425	OL40SO63PB

### 6-step without 0-position

Normal, door mounted

1-2-3-4-5-6	1	25	0.115	ONST61PB
	2	25	0.19	ONST62PB
	3	25	0.265	ONST63PB

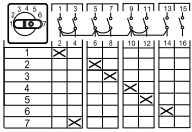
Large, door mounted

1-2-3-4-5-6	1	40	0.185	OL40ST61PB
	2	40	0.305	OL40ST62PB
	3	40	0.425	OL40ST63PB

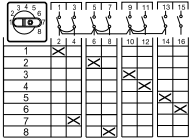
Packing sizes: OM 130 x 100 x 120 [mm]  
ON, OL 250 x 100 x 110 [mm]

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

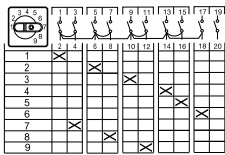
## Multi-step switches



O\_ST71\_



O\_ST81\_



O\_ST91\_

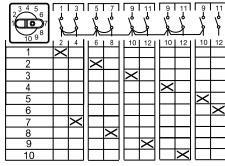
Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.

Special engraved front plates to be ordered as separate items.

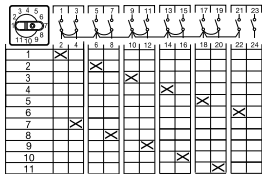
Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
<b>7-step with 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7	1	25	0.14	ONSO71PB
Large, door mounted				
1-2-3-4-5-6-7	1	40	0.3	OL40SO71PB
<b>7-step without 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7	1	25	0.14	ONST71PB
Large, door mounted				
1-2-3-4-5-6-7	1	40	0.3	OL40ST71PB
<b>8-step with 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8	1	25	0.145	ONSO81PB
Large, door mounted				
1-2-3-4-5-6-7-8	1	40	0.148	OL40SO81PB
<b>8-step without 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8	1	25	0.145	ONST81PB
Large, door mounted				
1-2-3-4-5-6-7-8	1	40	0.148	OL40ST81PB
<b>9-step with 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8-9	1	25	0.165	ONSO91PB
Large, door mounted				
1-2-3-4-5-6-7-8-9	1	40	0.265	OL40SO91PB
<b>9-step without 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8-9	1	25	0.165	ONST91PB
Large, door mounted				
1-2-3-4-5-6-7-8-9	1	40	0.265	OL40ST91PB

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

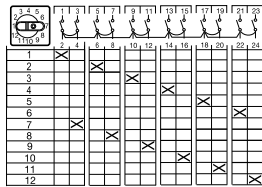
# Multi-step switches



O\_ST101\_



O\_ST111\_



O\_ST121\_

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.

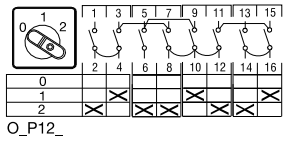
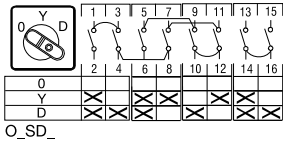
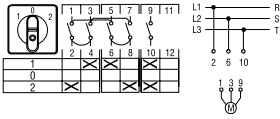
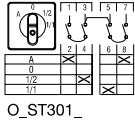
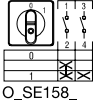
Special engraved front plates to be ordered as separate items.

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
<b>10-step with 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8-9-10	1	25	0.17	ONSO101PB
Large, door mounted				
1-2-3-4-5-6-7-8-9-10	1	40	0.27	OL40SO101PB
<b>10-step without 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8-9-10	1	25	0.17	ONST101PB
Large, door mounted				
1-2-3-4-5-6-7-8-9-10	1	40	0.27	OL40ST101PB
<b>11-step with 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8-9-10-11	1	25	0.19	ONSO111PB
Large, door mounted				
1-2-3-4-5-6-7-8-9-10-11	1	40	0.305	OL40SO111PB
<b>11-step without 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8-9-10-11	1	25	0.19	ONST111PB
Large, door mounted				
1-2-3-4-5-6-7-8-9-10-11	1	40	.305	OL40ST111PB
<b>12-step without 0-position</b>				
Normal, door mounted				
1-2-3-4-5-6-7-8-9-10-11-12	1	25	0.195	ONST121PB
Large, door mounted				
1-2-3-4-5-6-7-8-9-10-11-12	1	40	0.31	OL40ST121PB

Packing sizes: OM 130 x 100 x 120 [mm]  
ON, OL 250 x 100 x 110 [mm]

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

# Motor control switches



## Pumpstart switches

Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Catalog number
0 - 1	1	10	0.04	OMSE158PB

Normal, door mounted

0 - 1	1	25	0.09	ONSE158PB
-------	---	----	------	-----------

Modular, DIN-rail mounted

0 - 1	1	25	0.09	ONSE158M
-------	---	----	------	----------

## Ventilation switches

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.

Special engraved front plates to be ordered as separate items.

Function	Number of poles	Rated thermal current [A]	Motor rating [kW/400V]	Weight [kg]	Catalog number
----------	-----------------	---------------------------	------------------------	-------------	----------------

Miniature, door mounted

A - 0 - 1/2 - 1/1	2	10	7.5	0.06	OMST301PB
-------------------	---	----	-----	------	-----------

Normal, door mounted

A - 0 - 1/2 - 1/1	2	25	7.5	0.11	ONST301PB
-------------------	---	----	-----	------	-----------

Modular, door mounted

A - 0 - 1/2 - 1/1	2	25	7.5	0.11	ONST301M
-------------------	---	----	-----	------	----------

Large, door mounted

A - 0 - 1/2 - 1/1	2	40	15	0.21	OL40ST301PB
-------------------	---	----	----	------	-------------

## Reversing switches

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs..

Special engraved front plates to be ordered as separate items.

Normal, door mounted

1 - 0 - 2	3	25	7.5	0.10	ONW3PB
-----------	---	----	-----	------	--------

Large, door mounted

1 - 0 - 2	3	40	15	0.21	OL40W3PB
-----------	---	----	----	------	----------

## Star-delta switches

Normal, door mounted

0 - Y - ΔΔ	3	25	7.5	0.12	ONSDEPB
------------	---	----	-----	------	---------

Large, door mounted

0 - Y - Δ	3	40	15	0.21	OL40SDEPB
-----------	---	----	----	------	-----------

## Pole-change switches (Dahlander)

Winding for 2 speeds, one direction, 0 - A - AYY

Normal, door mounted

0 - 1 - 2	3	25	7.5	0.12	ONP12PB
-----------	---	----	-----	------	---------

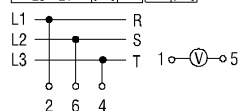
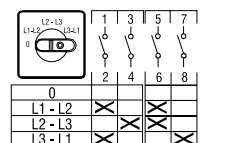
Large, door mounted

0 - 1 - 2	3	40	15	0.25	OL40P12PB
-----------	---	----	----	------	-----------

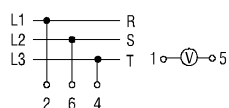
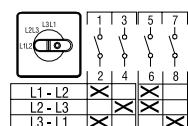
Packing sizes: OM 130 x 100 x 120 [mm]  
ON, OL 250 x 100 x 110 [mm]

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

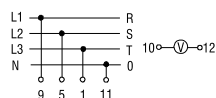
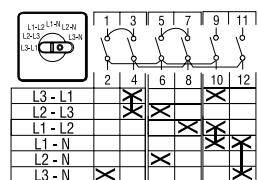
# Voltmeter switches



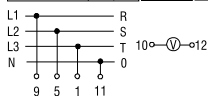
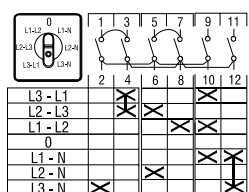
O\_V3\_



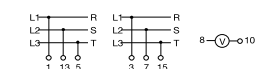
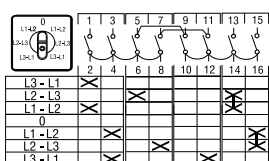
O\_VN3\_



O\_VN30\_



O\_V30\_



O\_V32

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.

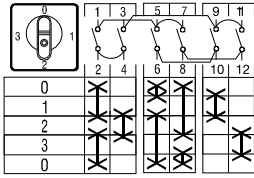
Special engraved front plates to be ordered as separate items.

Function	Number of stages	Rated thermal current [A]	Weight [kg]	Catalog number
<b>4 Positions, 3 phase -3 wire, with 0-position</b>				
Miniature, door mounted				
0, L1-L2,L2-L3,L3-L1	2	10	0.06	OMV3PB
Normal, door mounted				
0, L1-L2,L2-L3,L3-L1	2	25	0.11	ONV3PB
Modular, DIN-rail mounted				
0, L1-L2,L2-L3,L3-L1	2	25	0.11	ONV3M
<b>3 Positions, 3 phase -3 wire, without 0-position</b>				
Miniature, door mounted				
L1-L2,L2-L3,L3-L1	2	10	0.06	OMVN3PB
Normal, door mounted				
L1-L2,L2-L3,L3-L1	2	25	0.11	ONVN3PB
Modular, DIN-rail mounted				
L1-L2,L2-L3,L3-L1	2	25	0.11	ONVN3M
<b>7 Positions, 3 phase to phase 3 phase to neutral, without 0-position</b>				
Miniature, door mounted				
L1-L3,L2-L3,L1-L2 L1-N,L2-N,L3-N	3	10	0.08	OMVN30PB
Normal, door mounted				
L1-L3,L2-L3,L1-L2 L1-N,L2-N,L3-N	3	25	0.12	ONVN30PB
Normal, door mounted				
L1-L3,L2-L3,L1-L2 L1-N,L2-N,L3-N	M	25	0.12	ONVN30M
<b>7 Positions, 3 phase to phase 3 phase to neutral, with 0-position</b>				
Miniature, door mounted				
L1-L3,L2-L3,L1-L2,0 L1-N,L2-N,L3-N	3	10	0.12	OMV30PB
Normal, door mounted				
L1-L3,L2-L3,L1-L2,0 L1-N,L2-N,L3-N	3	25	0.12	ONV30PB
Modular, DIN-rail mounted				
L1-L3,L2-L3,L1-L2,0 L1-N,L2-N,L3-N	3	25	0.12	ONV30M
<b>7 Positions, 3 phase to phase voltages for 2 circuits, with 0 position</b>				
Miniature, door mounted				
L1-L3,L2-L3,L1-L2,0 L1-L3,L2-L3,L1-L2	4	10	0.14	OMV32PB
Normal, door mounted				
L1-L3,L2-L3,L1-L2,0 L1-L3,L2-L3,L1-L2	4	25	0.14	ONV32PB

Packing sizes: OM 130 x 100 x 120 [mm]  
ON 250 x 100 x 110 [mm]

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

# Ammeter switches



O\_AU31

Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs.  
Special engraved front plates to be ordered as separate items.

Function	Number of stages	Rated thermal current [A]	Weight [kg]	Catalog number
----------	------------------	---------------------------	-------------	----------------

### For 3 current transformer circuits, with 0-position

Miniature, door mounted

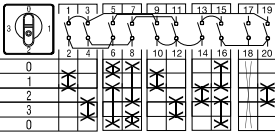
Single pole	3	10	0.12	OMAU31PB
-------------	---	----	------	----------

Normal, door mounted

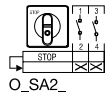
Single pole	3	25	0.12	ONAU31PB
2 pole or direct measurement in 3 phases	5	25	0.15	ONAU32PB

Modular, DIN-rail mounted

Single pole	4	25	0.12	ONAU31M
-------------	---	----	------	---------



O\_AU32



O\_SA2\_

### Stop switches

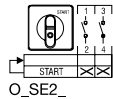
Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs. Special engraved front plates to be ordered as separate items.

Miniature, door mounted, with spring return, contacts N.C.

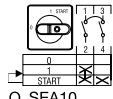
0 <sub>R</sub> -Stop	2	10	0.04	OMSA2PB
----------------------	---	----	------	---------

Normal, door mounted, with spring return, contacts N.C.

0 <sub>R</sub> -Stop	2	25	0.09	ONSA2PB
----------------------	---	----	------	---------



O\_SE2\_



O\_SEA10\_

### Start switches

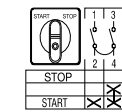
Black handle and front plate with standard text are included. The type and the ordering number are for one piece, package quantity is 10 pcs. Special engraved front plates to be ordered as separate items. With spring return.

Miniature, door mounted, with spring return.

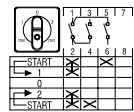
0 <sub>R</sub> -Start	1	10	0.04	OMSE2PB
0-1 <sub>R</sub> -Start	1	10	0.05	OMSEA10PB

Normal, door mounted, with spring return.

Stop-Start	1	25	0.04	ONSEA1PB
0 <sub>R</sub> -Start	1	25	0.04	ONSE2PB
0-1 <sub>R</sub> -Start	1	25	0.09	ONSEA10PB
Start-1 <sub>R</sub> -0-2 <sub>R</sub> -Start	1	25	0.09	ONUR139PB



ONSEA1PB



O\_UR139\_

Modular, DIN-rail mounted, with spring return

0-1 <sub>R</sub> -Start	1	25	0.09	ONSEA10M
Start-1 <sub>R</sub> -0-2 <sub>R</sub> -Start	1	25	0.09	ONUR139M

Packing sizes:	OM	130 x 100 x 120 [mm]
	ON, OL	250 x 100 x 110 [mm]

Standard delivery with black handle. Available also as an optional extra with grey handle, please change in type designation B to G, eg. OMA1PB would be OMA1PG with grey handle.

# Accessories



OMP B1 OMP G1



ONP B1 ONP G1



OMX B1 ONX B1



ONZ20B



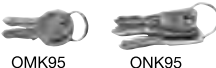
OMF101 ONF101



ONFM101



OMFB72 ONFB72



OMK95 ONK95



OMX99 ONX99



ONZ10L\_



OMNX80



ONX30

The type and the ordering number are for one piece.

Color	For cam switches type	Packing quantities	Weight [kg]	Catalog number
-------	-----------------------	--------------------	-------------	----------------

### Handle with blank front plate without engraving

Black	OM_, Mini	5	0.05	OMP B1 OMP G1
Grey	OM_, Mini		0.05	
Black	ON_ Normal, OL40	5	0.08	ONP B1 ONP G1
Grey	ON_ Normal, OL40		0.08	

### Handle with round escutcheon plate

Black	OM_, Mini	5	0.02	OMX B1 OMXNB1 ONX B1
Black, nose-type	OM_, Mini		0.02	
Black	ON_ Normal, OL40		0.02	

### Padlockable handle

For max 2 padlocks with 6 mm bail diameter or for max 3 padlocks with 4 mm bail diameter, 90 degrees.

Black	ON_ Normal, OL40	5	0.06	ONZ20B ONZ20RY
Red yellow	ON_ Normal, OL40		0.06	

### Front ring only

Black	OM_, Mini	10	0.01	OMX99 ONX99
Black	ON_, Normal		0.01	

### Front plate, blank without engraving ①

Silver	OM_, Mini	10	0.003	OMF101 ONF 101 ONFY 101 ONFM 101
Silver	ON_, Normal		0.003	
Yellow	ON_ Normal, OL40		0.003	
Grey	ON_, Modular		0.003	
Grey	ON_, Modular		0.003	

### Additional lettering plate, without engraving, black engraving from front side ②

Black frame	OM_, Mini	5	0.01	OMFB72 ONFB72 OMFG72 ONFG72
Black frame	ON_, Normal,		0.01	
Grey frame	OM_, Mini		0.01	
Grey frame	ON_, Normal		0.01	
Grey frame	ON_, Normal		0.01	

### Spare key

2 pcs	OM_, Mini	2	0.01	OMK95 ONK95
3 pcs	ON_, Normal, OL40		0.01	

### Protective rear cover

Transparent, IP 42 protection

Number of characters	Contacts	For cam switches type	Packing quantities	Weight [kg]	Catalog number
1-2	2-4	ON_, Normal	1	0.02	ONZ10L2 ONZ10L4 ONZ10L6
3-4	6-8	ON_, Normal		0.04	
5-6	10-12	ON_, Normal		0.06	

### Nut spanner for mounting the handle to the door

Black	OM_, Mini ON_, Normal	1	0.02	OMNX80
-------	--------------------------	---	------	--------

### Adaptor ring for 30 mm door drilling

Black	ON_, Normal	10	0.01	ONX30
-------	-------------	----	------	-------

① Special front plate for standard switches: order as separate position. Attach specification in electronic format or paper. Eg. ONF 101/TEXT

② Additional lettering plate with engraving: order as separate position. Attach specification in electronic format or paper. The text can also be typed as comment. Eg. ONFB 72/TEXT Pumping station.

## Accessories

Available for special cam switches



ONZ74\_

The type and the ordering number are for one piece.  
Special cam switches to be specified by CAMWEB configurator.

### Base mounting switches

Base mounting kit includes base for DIN-rail mounting, shaft adaptor and 200 mm shaft for cutting up to 250 mm panel depth. Can be supplied also as optional extra.

Depth(mm)	For cam switches	Catalog number
250	ON_Normal	ONZ74



O\_Z31\_

### Cylinder interlock

To lock all pre-determined positions with a safety key (2 pcs)  
Available for special cam switches only. Special configuration with CAMWEB.

	OL_Large	OLZ31
--	----------	-------



O\_Z21\_

### Pushbutton interlock

To release all pre-determined positions while pushed. Special configuration with CAMWEB.

	OL_Large	OLZ21
--	----------	-------



## Technical data

According to IEC / 60947-3-4-5

IEC ratings				OM_	N_	OL40
Resistive and inductive load						
<b>AC ratings</b>						
Impulse withstand voltage	$U_{imp}$		kV	-	-	6
Rated operating voltage $U_n$	IEC		V	500	690	690
Isolation conditions acc. to VDE			V	250	400	690
Rated thermal current $I_{th}$	<b>IEC</b>		<b>A</b>	<b>10</b>	<b>25</b>	<b>45</b>
Rated short circuit current (prospective)			kA	1	10	10
Max back up fuse link			A	10	25	40
Short time current carrying capacity		3s	A	-	100	360
		10s	A	-	60	200
		30s	A	-	32	120
		60s	A	-	30	80
Rated operational current $I_o$			A	10	25	45
Non- or slightly inductive load	AC1	380 V	A	10	25	45
Switching of resistive loads	AC21	400 V	A	10	25	45
Switching of magnetic drives relays, valves, traction magnets	AC11	220-240 V	A	2.5	5.5	14
		380-440 V	A	-	3.5	6
		500 V	A	-	4.5	7
Mixed resistive and inductive load, pf. 0,7	AC22	220-500 V	A	10	20	40
		660-690 V	A	-	20	40
<b>DC ratings</b>						
Switching capacity DC rated voltage with resistive circuits ( $T \leq 1ms$ )	DC1	24 V	A	10	10	45
		40 V	A	6	10	20
		60 V	A	2.5	3	5
		110 V	A	0.7	0.8	1
		220 V	A	0.3	0.32	0.3
		440 V	A	-	0.22	0.25
Switching capacity DC rated voltage with inductive circuits ( $T < 50 ms$ )	DC1	24 V	A	-	10	45
		30 V	A	6	4.5	11
		40 V	A	3	1.7	4
		60 V	A	1	0.7	1.5
		110 V	A	0.7	0.3	0.4
<b>Motor ratings</b>						
<b>AC ratings</b>						
Rated operational power	AC2	220-240 V	kW	2.5	3.5	11
3-phase		380-440 V	kW	-	6	18.5
Starting of slip-ring, switching off		500 V	kW	-	6	18.5
		660-690 V	kW	-	6	18.5
Rated operational power	AC3	220-240 V	kW	1.8	2.2	7.5
3-phase, 3-pole		380-440 V	kW	2.2	5.5	11
Direct starting of squirrel cage motors, switching off running motors		500 V	kW	-	4	11
		660-690 V	kW	-	4	11
1-phase		110 V	kW	0.3	0.4	2.5
		220-240 V	kW	0.55	0.75	4
		400 V	kW	0.75	1.3	5.5
Rated operational power	AC23	220-240 V	kW	1.8	2.6	7.5
3-phase, 3-pole		<b>380-440 V</b>	<b>kW</b>	<b>3.0</b>	<b>7.5</b>	<b>15</b>
Occasional switching of motors or other highly-inductive devices load		500 V	kW	-	4.8	15
		660-690 V	kW	-	4.8	17
1-phase		110 V	kW	0.37	0.5	2.5
		220-240 V	kW	0.75	0.9	4
		380-440 V	kW	1.1	1.5	7.5

## Technical data UL/CSA

UL and CSA ratings			OM_	ON_	OL_40	OL80	OL125	OL160	OL200
UL 508 Manual Motor Controller file number E 63822		VAC							
Maximum operating voltage		A	300	600	600	600	600	600	600
Ampere rating	Pilot duty General use	CSA/UL category CSA/UL	A300 10	A600 25	A600 40	A600 80	A600 125	A600 160	A600 200
Rated power (HP) 3-phase	120V	HP	1	1	5	10	15	15	32
	240V	HP	1	1	10	30	40	40	64
	480V	HP	-	2	20	40	50	50	120
	600V	HP	-	5	23	40	50	50	120
1-Phase	120V	HP	0.33	.05	2	7.5	10	10	—
	240V	HP	0.75	1	3	15	20	20	—
	480V	HP	-	2	10	—	—	—	—
	600V	HP	-	3	10	—	—	—	—
<b>Short circuit ratings</b>									
Maximum prospective fault current		kA	1	10	10	10	10	10	10
Maximum fuse size		A	16	35(RK5)	50(RK3)	100(RK5)	150(RK5)	200(RK5)	—
Switching frequency		cycles/h	150	150	150	150	150	150	—
Connecting screws		M	2.5	3.5	5	5	5	5	10
Max. cable cross section		MM <sup>2</sup>	1.5	4	6	70	70	70	150
		AGW	14	14-12	14-8(Cu75)	12-2/0	12-2/0	12-2/0	300 kcmil

### Approvals:

UL-Approval, file number EG 63822  
 CSA-Approval  
 Lloyds Register of Shipping  
 Det Norske Veritas (DNV)  
 Germanischer Lloyd (GL)  
 Ghost R



ON\_, Normal



ON\_M, Modular



OM\_, Miniature



OL\_, Large



OM\_, Key operated

### Standards:

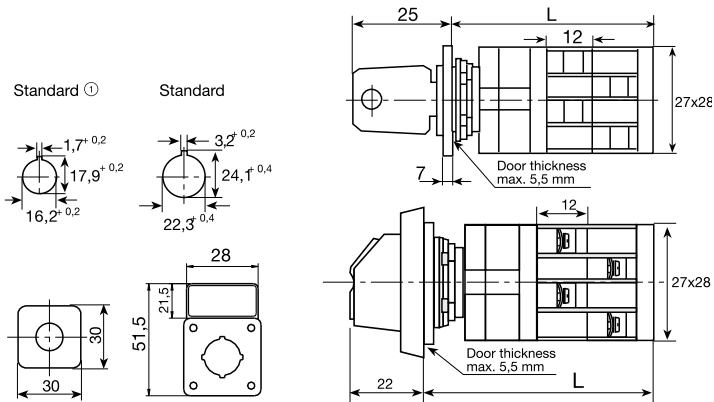
IEC 60947-3  
 EN 60947-3  
 UL 508  
 CSA C22.2 No14

# Approximate dimensions OM, ON and OL switches

Dimensions in mm.

Remark: Terminal screws on top and bottom side.

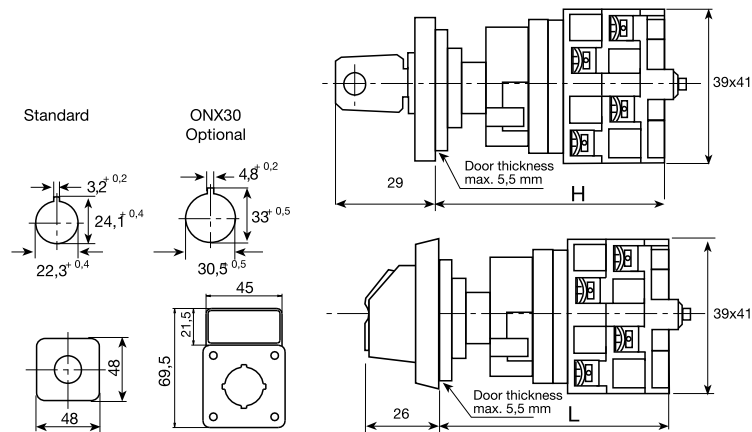
## OM, Miniature



L number of contact chambers

1	2	3	4	5	6	7	8
45	57	69	81	90	105	111	138

## ON, Normal



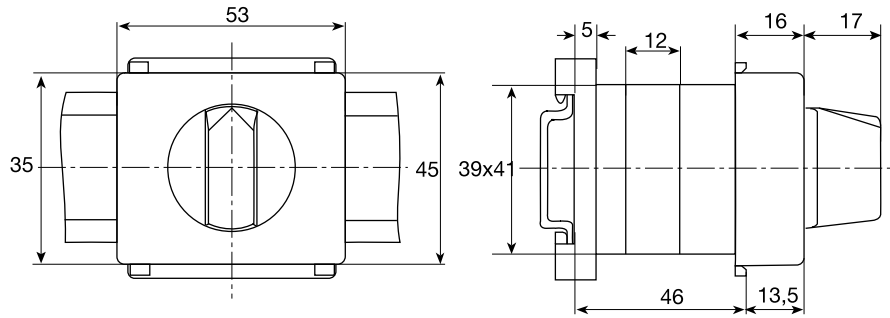
L number of contact chambers

	1	2	3	4	5	6	7	8	9	10
L	54	66	78	90	102	114	126	138	150	162
H	62	76	86	98	110	122	134	146	159	171

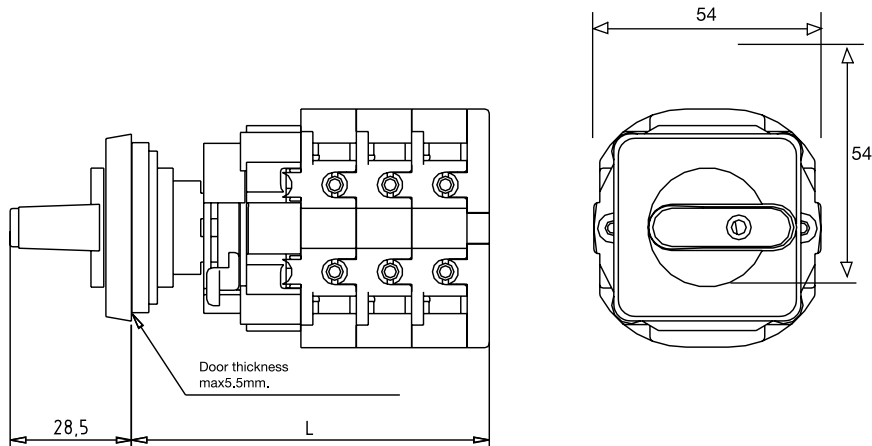
① 22mm adaptor ring can be removed and become 16mm.

## Approximate dimensions ON and OL cam switches

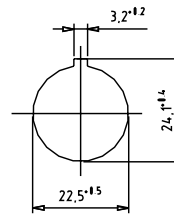
### ON, Modular



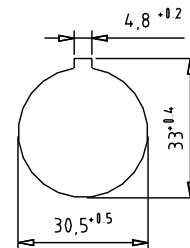
### OL, Large



#### Standard



#### ONX30 (Optional)

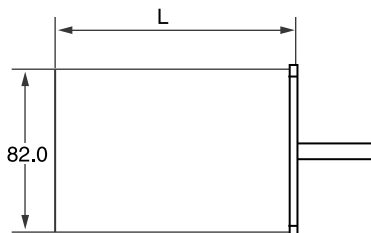
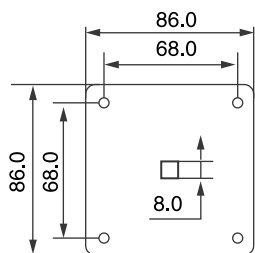


L number of contact chambers

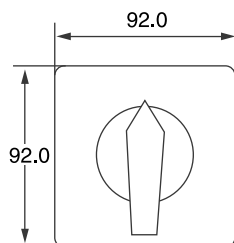
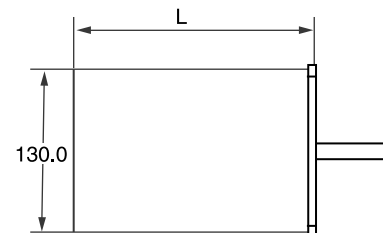
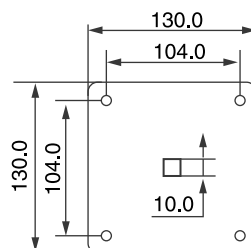
1	2	3	4	5	6	7	8	9	10
59	72	85	98	111	124	137	150	163	176

# Approximate dimensions OL Cam switches

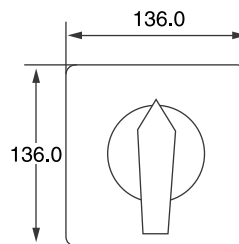
OL 80, OL125, & OL150



OL 200



No. of Contacts	Length L
1-2	66
3-4	94
5-6	122
7-8	150
9-10	178
11-12	206
13-14	234
15-16	262



No. of Contacts	Length L
1-2	120
3-4	181
5-6	242
7-8	303
9-10	364
11-12	425
13-14	486
15-16	547



# Special cam switches, contact plan

Company \_\_\_\_\_

Type \_\_\_\_\_

Phone/Fax nr. \_\_\_\_\_

Project number \_\_\_\_\_

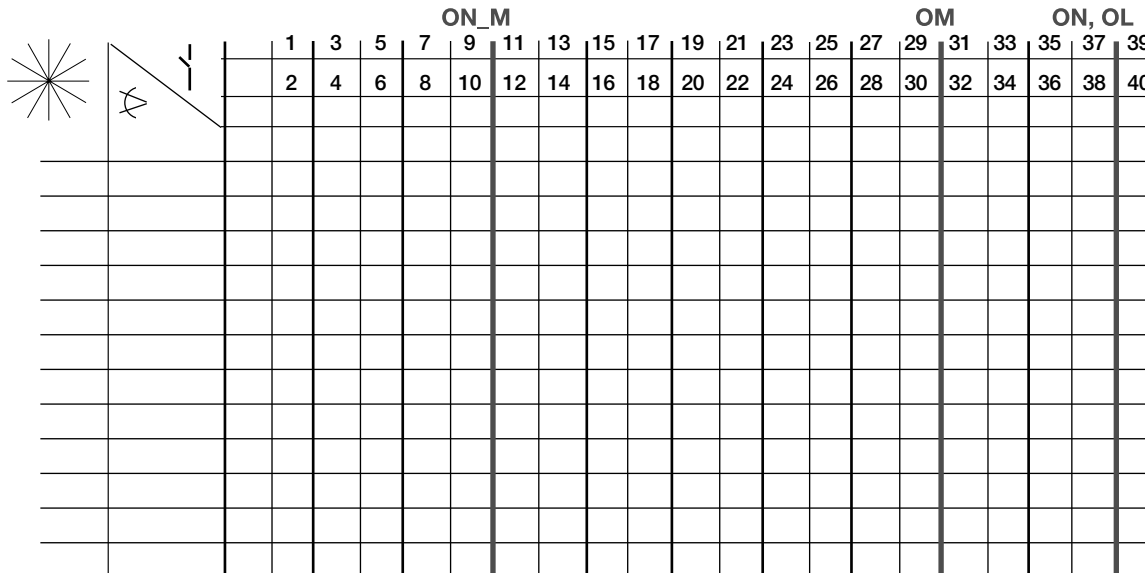
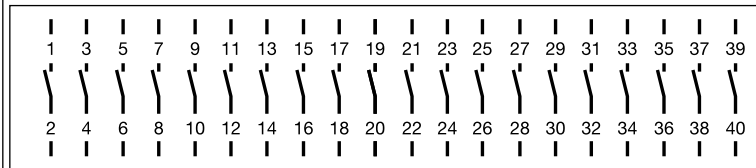
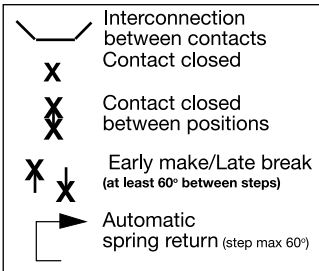
Name \_\_\_\_\_

Customer's number \_\_\_\_\_

Quantity: \_\_\_\_\_ pcs

Handled by: \_\_\_\_\_

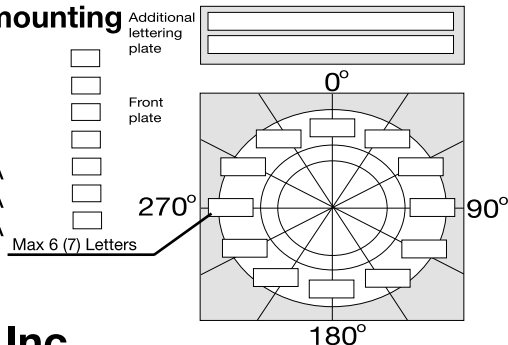
Date: \_\_\_\_\_



	Normal	Padlockable _X20	NKey operated _K	Enclosed _E_6 IP65	Cylinder locking	Pusbutton locking
Black _B						
Grey _G						
Red-yellow_RY						

### Door mounting

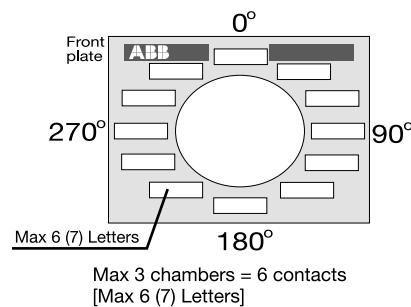
- OM, 10A
- ON, 25A
- OL, 40A
- OL, 80A
- OL, 125A
- OL, 160A
- OL, 200A



**ABB Inc.**

### DIN-rail mounting

ON\_M, Modular



**NOTE:** Special Cam switches have minimum purchase quantities dependent on amperage size and number of contacts.

*Return completed form to:  
lvps.support@us.abb.com*

# Contact us

## **ABB Inc.**

Low Voltage Products  
16250 W. Glendale Drive  
New Berlin, WI 53151

Technical Support: 888-385-1221, Option 4

Customer Service: 888-862-3290

Email: [abb.support@tnb.com](mailto:abb.support@tnb.com)

Web: [www.abb.us/lowvoltage](http://www.abb.us/lowvoltage)

1SXU301200C0201 Effective 01/25/2014