







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)

Low Voltage Products & Systems 19.19



Selection guide OS30FACC12 – OS1200L03



OS30FA_12 OS60J12 OS1200L03 OS100J03 OS200J03 OS400J03 OS800L3 OS600J03

Catalog number	r 3 pole	OS30FACC12	OS30FAJ12	OS60GJ12	OS100GJ03	OS200J03	OS400J03	OS600J03	OS800L3	OS1200L03
General purpose amp rating	e A	30	30	60	100	200	400	600	800	1200
Approvals ①	2 pol 3 pol 4 pol	e UL98 & IEC	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC IEC					
Technical ration (UL,CSA)	ngs									
Max operating vo	oltage	600	600	600	600	600	600	600	600	600
Max horsepower Three phase	-									
Oliveral and a second	240V H 480V H 600V H	15	7.5 15 20	15 30 50	30 60 75	60 125 150	125 250 350	200 400 500	250 500 600	- - -
Single phase	120V H 240V H		2 3	_ _	_ _	- -	_ _	_ _	_ _	- -
UL fuse class		cc	J	J	J	J	J	J	L	L
Technical rating Rated insulation a voltage. AC20 an	and operational	V 1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated thermal cu AC 20/DC 20 AC 20/DC 20	open .	A 32 A 32	32 32	63 63	160 160	200 200	400 400	630 600	800 720	1250 1250
AC 21A		32 32	32 32	63 63	160 160	200 200	400 400	630 630	800 800	1250 1250
Rated operationa	al power AC23 400/415V kV 690V kV		14/15 25	30 60	80/90 132	110 200	220/230 400	355 560	350/380 600	560 1000
Physical charac	teristics									
Weight	3 pole switch I 4 pole I	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		3.66 n 4.15 n 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
Accessories										
Double break cor	ntacts	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 diar	neter	6 _{mm}	6 _{mm}	6mm .24 x .24"	● 6mm .24 x .24"	6 _{mm} .24 x .24"	● 12mm .47 x .47"	12 _{mm} .47 x .47"	● 12mm .47 x .47"	12 _{mm} .47 x .47"
Handle UL/NEMA	A type									
Type 1, 3R, 12 Type 1, 3R, 4,	2	:	:	:	:	:	:	•	:	:
	oistol handle length mended shaft length k	45 - 65mm 290mm —	45 - 65mm 290mm —	45 - 65mm 290mm —	45 - 65mm 290mm —	65 - 80mm 290mm —	125 - 175mm 595mm	125 - 175mm 595mm	125 - 175mm 595mm	125 - 175mm 595mm

S = Standard
• = Available
— = Not available

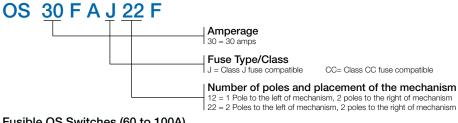
① UL listed switches are also CSA approved.

Selection information



Standard part number designation ①

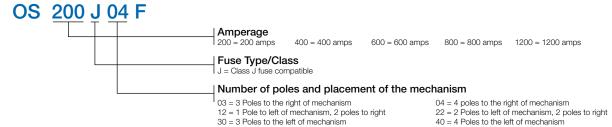
Fusible OS Switches (30A)



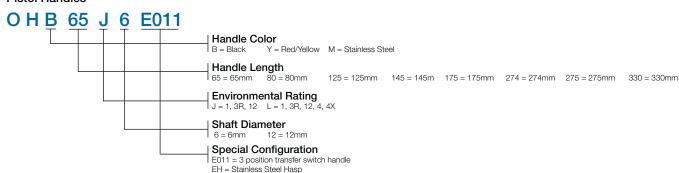
Fusible OS Switches (60 to 100A)



Fusible OS Switches (200A and above)



Pistol Handles



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 - 19.42.

(Only required for 100A & above.)





C				
. 4	-		-	
(0830	DFAJ	12	

			2 Pole	3 Pole	4 Pole
	UL general purpose amp rating	UL Fuse Type 600V	Catalog number	Catalog number	Catalog number
	30	J CC ①	_ _	OS30FAJ12 OS30FACC12	OS30FAJ22F OS30FACC22F
	60	J	-	OS60GJ12 @ OS60GJ03	OS60GJ22F
	100	J	-	OS100GJ12 @ OS100GJ03 @	OS100GJ04F
UL 98	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

OZXA-24

① Rejection style fuses only.

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

Other configurations

Side operated

30A - 400A, UL fuse class J,CC

Disconnect

For a complete assembly, please select one of each:

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







OXP6X170 OHY65L6E00S



OS60GJS30

Side operated switches - 3 pole

UL	UL		Maxim					
general	fuse			Three phase			Weight	Catalog
purpose amp rating	type 600V	200V	208V	240V	480V	600V	(Lbs.)	number
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



OS100GJS30

Handles

UL/NEMA type	IEC type	Color	Length (Inches/mm)	Marking	Defeatable	Padlockable	Weight	Catalog number		
For use with	For use with OS30A_S30									
1, 3R, 12	IP65	Black Red/Yel	2.6/65	OFF/ON	Yes	Yes	0.29	OHB65J6E00S OHY65L6E00S		
For use with	For use with OS60GJ30, OS60JS30 & OS100GJ30									
1, 3R, 12	IP65	Black Red/Yel	3.1/80	OFF/ON	Yes	Yes	0.30	OHB80J6E00S OHY80J6E00S		
For use with	For use with OES200J3-S & OES400J3-S									
1, 3R, 12	IP65	Black Red/Yel	4.9/145	OFF/ON	Yes	Yes	0.39	OHB145J12E00S OHY145J12E00S		
		Metal			No	Yes	1.50	OETL-ZX74		



OETL-ZX74

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-	12.8/325	.47 X .47" (12 X 12mm)	0.90	OXP12X325



OZXA-24

Terminal lug kits

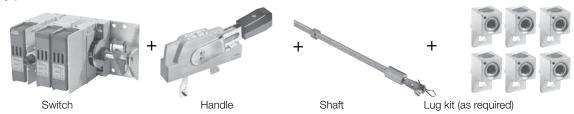
Torrinia lag kito					
For use with:	Wire	Weight	Wire	Lugs	Catalog
i oi use with.	size	vveigrit	type	per kit	number
OS30AJS30 & OS30ACCS30	#18 – 8	_	Cu	_	Integral
OS60GJS30	#14 – 4	_	Cu	_	Integral
OS100GJS30	#14 – 2/0	0.43	Cu/Al	6	OZXA-24
OES200J3-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZXA-25
OES400J3-S	#2 –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

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Special configurations

Shaft operated flange 30A - 100A

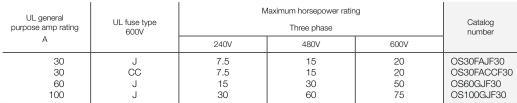
For a complete assembly, please select one of each.







OS30FAJF30



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





DSFHS-_



OZXA-24

Terminal lug	kits and acce	essories			
For use on:	Description	Wire size	Wire type	Qty.	Catalog number
OS30_ OS60_ OS100_	Lug Lug Lug	#18 - #8 #14 - #4 #14 - 2/0	Cu Cu Cu/Al	 6	Integral Integral OZXA-24
OS30 OS100_	Aux. Contact Aux. Contact	1 NO 1 NC		1 1	OA1G10 OA3G01
OS30_	Adapter	Needed for mounting aux. Contacts on OS30_		1	OSZ4
OS100	Shroud	Includ	des one set of 3 for use on line or load side	1	OSS160T3

Door hardware NEMA 12

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



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__

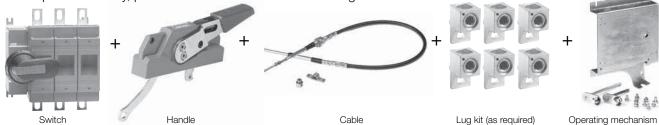
19.24

Special configurations

Cable operated flange 30A - 800A

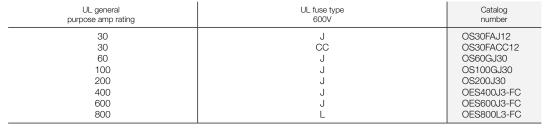


For a complete assembly, please select one each of the following:



Fusible





OS200J03

Flange handles — UL98; File #E101914



For use with:	Environmental rating	Catalog number
0000 40 0000 140 004004 100 00000 100	NEMA 1, 3R, 12	OHF1C12
OS30_12, OS60J12, OS100AJ30, OS200J30	NEMA 4, 4X	OHF1C4
OES400_, OES600_, OES800_	NEMA 4, 4X	K7FCH4

Flexible cables



For use with:	Cable length (inches)	Catalog number
	36	OXC1L36
	48	OXC1L48
OS30_12, OS60J12, OS100AJ30, OS200J30	60	OXC1L60
	72	OXC1L72
	84	OXC1L84
	48	K7C048
050400 050000 050000	60	K7C060
OES400_, OES600_, OES800_	72	K7C072
	84	K7C084

Operating mechanisms

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

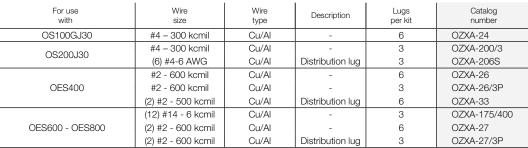
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Special configurations

Cable operated flange 30A - 800A

Terminal lug kits



Door hardware NEMA 12

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



Lua Kit



OZXA-200

Other configurations

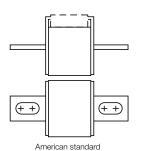
High speed fuse pattern Special type fuses



For a complete assembly, please select one of each:

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



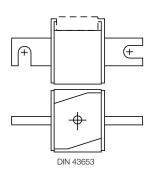


Selecting switch bodies and adapter kits

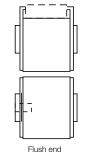
Please select switch body and adapter kit according to your fuses. Switch body alone can not be used — an adapter kit is always needed.

Switch bodies - 200 A through 800 A

Switch bodies – 200 A through 600 A							
UL general purpose amp rating	three phase		ting	Max. allowed fuse power	Weight	Catalog	
	240 V	480 V	600 V	dissipation at rated current	nı	number	
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	

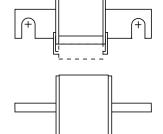


Fuse adapter kits — for switches OES200 – OES400	For 3 pole switch	For 4 pole switch
Fuse standard	Catalog	Catalog
i use stailualu	number	number
American standard	OESAZX1-S4	OESAZX1-S4/4
American standard	OESAZX1-S5	OESAZX1-S5/4
DIN80 (DIN43653)	OESAZX1-S7	OESAZX1-S7/4
DIN80 sizes 00 and 000 (DIN 43653)	OESAZX1-S9	OESAZX1-S9/4
DIN110 (DIN43653)	OESAZX1-S2	OESAZX1-S2/4
DIN140 (DIN43653)	OESAZX1-S6	OESAZX1-S6/4
Flush-end, 70mm body	OESAZX1-S8	OESAZX1-S8/4
Flush-end, 50mm body	OESAZX1-S3	OESAZX1-S3/4
French	OESAZX1-S10	OESAZX1-S10/4
French with micro switches	OESAZX1-S11	OESAZX1-S11/4



Fuse adapter kits — for switches OES600 – OES800	For 3 pole switch	For 4 pole switch
Fuse standard	Catalog	Catalog
T doo otta idai d	number	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





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.

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French style



Other configurations

High speed fuse pattern Standard switches

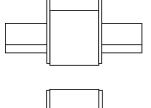
For a complete assembly, please select one switch catalog number which includes:

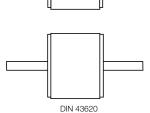


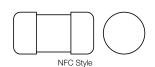


Selecting switch bodies

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







DIN-type fusible disconnects - 32-1200A

IEC Amp rating	AC23A operatio	AC23A operational power in kW		Weight (kg)	3 Pole	4 Pole
ILO Amp rating	400V	500V	Fuse Type	vveigiti (kg)	Catalog number	Catalog number
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	4 Pole	
	400V	500V	ruse type	r use type Weight (kg)	vveigiti (kg)	Catalog number	Catalog number
•	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
ĺ	125	55	75	NFC 22x58	1.5	OS125GF12	OS125GF22F

BS-types fusible disconnects – 32-1200A

IEC Amp rating	AC23A operatio	nal power in kW	Fuse Type	Weight (kg)	3 Pole	4 Pole
ILO Amp rating	400V	500V	i use type		Catalog number	Catalog number
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