

UL 98 Fusible Disconnect Switches

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Mersen's fusible disconnect switches are listed to UL 98 and bear the CE mark as conformance to IEC 60947-3. They are "service entrance" devices capable of fully rated load-break and load-make. While long-term safety, reliability, and functionality are always paramount in the design of our products, these switches are also engineered to have the smallest footprint. The modular design allows placement of the handle anywhere amongst the poles. The fuse doors cannot open when the switch is in the "ON" position, and all switches are double-break, which isolates both fuse clips from voltage during fuse replacement. The switches' "Test" position allows actuation of the auxiliary contacts without main power. Power taps enable energizing a CPT or surge device without the need for a separate terminal block.

A wide range of ergonomic handles are available, as are all manner of accessories.

Highlights:

- Multiple Configurations
- Power taps
- Adjustable shaft depth
- Fuse monitoring
- Interlocked fuse doors

Applications:

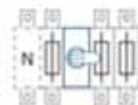
- Main disconnects
- Short circuit protection
- Electrical isolation
- Overcurrent protection
- Safety switch

Configurations

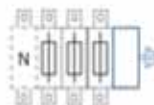


At the end of the switch fuse
Mxxx03, 04, 30, or 40, S, N

Between the poles
Mxxx12, 22, 22N, S



Side operated types Mxxx03, 04, 30, or 40, S, N



Catalog Number Designation

		M	60	J	3	0	S
Switch	M = Mersen AC Switch						
Ampacity	16 to 1200)						
Type	CC = CC fused J = J fused L = L Fused						
Number of Poles/Left side of Handle	AC: 0, 1, 2, 3, 3N, 4, etc. (N = neutral)						
Number of Poles/Right side of Handle	AC: Blank = < 200A non-fused, 0, 1, 2, 3, 3N, 4, etc. (N = neutral)						
Revision	Blank = 0						
Special Configurations	S = side-operated N = Non-fused switched Neutral F = Rod-Flange Actuated						



Ratings UL:

Volts : 600VAC
Amps : 30, 60, 100, 200, 400, 600, 800, and 1200A
SCCR : Up to 200kA with Class CC, J, or L Fuses

Ratings IEC:

Volts : 690VAC
Amps : 25, 50, 63, 125, 160, 200, 250, 400, 630, 800, and 1250A

Approvals:

- All UL Fusible Disconnect Switch switches meet UL & CSA requirements
- UL listed guide WHTY, File E191605 for UL 98 (ratings from 30A to 1200A)
- IEC 60947-3



UL 98 Fusible Disconnect Switches

Front and Side Operated



M30CC12
30A, CC fused, 3-pole with pole on left side of handle and 2 poles on right side



M60J30
60A, J fused, with 3 poles on left side of handle



M200J30 with HDF200
200A, J fused, 3 poles on left side of direct handle

Switch Body

Ampere Rating	30	60	100	200
Base Part #	M30	M60	M100	M200
Fuse Type	CC, J	J	J	J
3- and 4-pole Configuration	12, 22, 30S	12, 22, 22N, 30, 30S, 40, 40N	12, 22, 22N, 30, 30S, 40, 40N	30, 40
Rod-Flange Actuation	M30CCF, M30J30F	M60J30F	NA	NA

S = Side operated
(Direct Side Operated Handles are included with 'S' option)

Handles



Switch Body Ampere Rating	30	60	100	200
Direct Front Operation				
	HDF30	HDF200	HDF200	HDF200
External Front Operation - Pistol Style				
NEMA 1, 3R, 12, IP65	HB45	HB65	HB65	HB65
NEMA 4, 4X	HB45X	HB65X	HB65X	HB65X
NEMA 4X Stainless Steel	HM65X	HM65X	HM65X	HM65X

B=Black. Substitute 'R' for 'B' if a red handle is desired. Ex. HR45

Shafts



Shafts				
Shaft	SPA__	SPA__	SPA__	SPA__

Lengths: 130, 210, 290, 360, 430 Ex. SPA210

Accessories



OA3G01
OA1G10

OEA28



FOM4 with M200J30

Terminal Lugs				
6 per package	Integral	Integral	LUG100 (#14 - 2/0)	LUG200 (#6 - 300MCM)
Terminal Shrouds				
3-pole (3 single shrouds per package)	Integral	Integral	TSF160-13	TSF200-13
4-pole (4 single shrouds per package)			TSF160-14	TSF200-14

Auxiliary Contacts				
NO	OA1G10, w/OSZ4	OA1G10	OA1G10	OA1G10
NC	OA3G01, w/OSZ4	OA3G01	OA3G01	OA3G01
NO, between poles	OA4B1C	N/A	N/A	N/A
Mounting plate OA1G10/OA3G01	OSZ4	Not needed	Not needed	Not needed
Module for 8 aux. contacts	OEA28	OEA28	OEA28	OEA28

Flange Operation for Cable Actuation				
Cable Flange Handle, NEMA 12	FHC12	FHC12	FHC12	FHC12
Cable Flange Handle, NEMA 4X	FHC4X	FHC4X	FHC4X	FHC4X
Bracket Assembly	FOM2	FOM3 for M60J12 FOM4 for M60J30	FOM4	FOM4
Cable for FHC handles	CABLE36*	CABLE36*	CABLE36*	CABLE36*

*Other cable lengths available: 48", 60", 72", 84", 96", 108". For example, CABLE108.

Flange Operation for Rod Actuation				
Flange bracket assembly	Incl with M30x30F	Incl with M60J30F	Incl with M100U3F	NA
Rod Flange handle NEMA 12	FHR12	FHR12	FHR12	NA
Rod Flange handle NEMA 4X	FHR4X	FHR4X	FHR4X	NA
Rod, 16 inch	RODNF16	RODNF16	RODNF16	NA
Rod, 24 inch	RODNF24	RODNF24	RODNF24	NA

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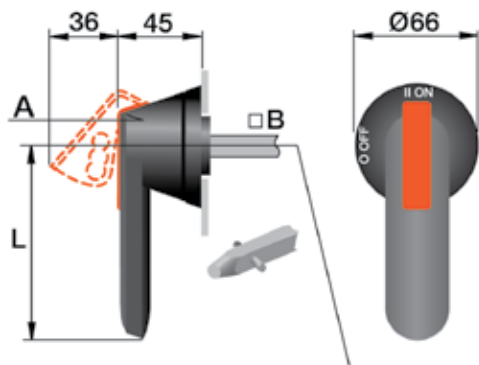
Shafts

Part #	Description	Ref #	Weight	Pkg
SFB280	Shaft SwitchFuse 12x12x280mm	F1043423	0.31	1
SFB325	Shaft SwitchFuse 12x12x325mm	G1043424	0.41	1
SFB395	Shaft SwitchFuse 12x12x395mm	H1043425	0.45	1
SFB535	Shaft, 12x12x535mm	Z1049673A		
SPA130	Shaft pistol handle 6x6x130mm	V1043919		
SPA210	Shaft pistol handle 6x6x210mm	P1043431	0.11	1
SPA290	Shaft pistol handle 6x6x290mm	Q1043432	0.14	1
SPA360	Shaft pistol handle 6x6x360mm	W1043920		1
SPA430	Shaft pistol handle 6x6x430mm	X1043921		1

Terminal Shrouds

Part #	Description	Ref #	Weight	Pkg
TSF400-3	Term.shrd 400A Switch.fus3p	S1043434	0.06	1
TSF600-3	Term.shrd 600A Switch.fus3p	T1043435	0.05	1
TSF160-13	Term.shrd 160A Swch.fus1pL /3	V1043436	0.04	1
TSF160-14	Term.shrd 160A Swch.fus1pL /4	W1043437	0.04	1
TSF200-13	Term.shrd 200A Swch.fus1pL /3	J1043449	0.008	3
TSF200-14	Term.shrd 200A Swch.fus1pL /4	V1043459	0.012	4
TSF800-13	Term.shrd 800A Swch.fus1pL /3	K1043450	0.01	3
TSF800-14	Term.shrd 800A Swch.fus1pL /4	W1043460	0.01	4
TSF1250-13	Term.shrd 1250A Swch.fus1pL /3	L1043451	0.01	3
TSF1250-14	Term.shrd 1250A Swch.fus1pL /4	X1043461	0.00	4
TSF250-13	Term.shrd 250A Swch.fus1pL /3	M1043452	0.008	3
TSF250-14	Term.shrd 250A Swch.fus1pL /4	Y1043462	0.012	4
TSF400-13	Term.shrd 400A Swch.fus1pL /3	N1043453	0.008	3
TSF400-14	Term.shrd 400A Swch.fus1pL /4	Z1043463	0.001	4

Weight in kg without packaging.



A	L	Ø Dia
HB 45	45	6
HB 65	65	6
HB 80	80	6
HB 95	95	12
HB 125	125	12
HB 145	145	12
HB 175	175	12
HB 274	275	12

All are NEMA type 1, 3R, 12 except "X"
suffix = NEMA type 4, 4X
B = Black R = Red

Handles

Part #	Description	Ref #	Weight	Pkg
HDF30	Handle direct SF 40A max	P1043408	0.05	1
HDF200	Handle direct SF 200A	P1043385	0.14	1
HDF400	Handle direct SF 400A	Q1043386	0.33	1
HDF800T	Handle dir. SF 800A butterfly	R1043387	1.1	1
HDF1250T	Handle dir. SF 1250A butterfly	S1043388	1.5	1
HDF250T	Handle dir. SF 250A butterfly	T1043389	0.16	1
HDF400T	Handle dir. SF 400A butterfly	V1043390	0.34	1
HB45	Handle black45mm IP65 NEMA 3R	L1043911	0.10	1
HB45X	Handle black 45mm IP65 NEMA 4X	M1043912	0.10	1
HB65	Handle black65mm IP65 NEMA 3R	W1043368	0.12	1
HB65S	Handle black 65mm Right Side	A1044361	0.10	1
HB65X	Handle black 65mm IP65 NEMA 4X	X1043369	0.12	1
HB80	Handle black 80mm IP65 NEMA 3R	Y1043370	0.12	1
HB80X	Handle black 80mm IP65 NEMA 4X	Z1043371	0.12	1
HB95	Handle black 95mm IP65 NEMA 3R	N1043913	0.01	1
HB95X	Handle black 95mm IP65 NEMA 4X	P1043914	0.01	1
HB125	Handle black125mm IP65 NEMA 3R	A1043372	0.16	1
HB125X	Handle black125mm IP65 NEMA 4X	B1043373	0.12	1
HB145	Handle black145mm IP65 NEMA 3R	C1043374	0.17	1
HB145S	Handle black 145mm Right Side	B1044362	0.15	1
HB145X	Handle black145mm IP65 NEMA 4X	D1043375	0.17	1
HB274	Handle black274mm IP65 NEMA 3R	D1043398	0.515	1
HB274X	Handle black274mm IP65 NEMA 4X	E1043376	0.515	1
HB330	Handle black330mm IP65 NEMA 3R	E1043399	0.55	1
HB330X	Handle black330mm IP65 NEMA 4X	F1043377	0.55	1
HM65X	SS handle, 4X, 65mm	V1045506		
HM125X	SS handle, 4X, 125mm	W1045507		
HM175X	SS handle, 4X, 175mm	X1045508		
HR45	Handle red 45mm IP65 NEMA 3R	Q1043915	0.10	1
HR45X	Handle red 45mm IP65 NEMA 4X	R1043916	0.10	1
HR65	Handle red 65mm IP65 NEMA 3R	G1043378	0.120	1
HR65X	Handle red 65mm IP65 NEMA 4X	H1043379	0.12	1
HR80	Handle red 80mm IP65 NEMA 3R	F1043400	0.12	1
HR80X	Handle red 80mm IP65 NEMA 4X	J1043380	0.12	1
HR95	Handle red 95mm IP65 NEMA 3R	S1043917	0.16	1
HR95X	Handle red 95mm IP65 NEMA 4X	T1043918	0.16	1
HR125	Handle red 125mm IP65 NEMA 3R	K1043381	0.17	1
HR125X	Handle red125mm IP65 NEMA 4X	L1043382	0.17	1
HR145	Handle red 145mm IP65 NEMA 3R	M1043383	0.2	1
HR145X	Handle red 145mm IP65 NEMA 4X	N1043384	0.17	1
HR274	Handle red 274mm IP65 NEMA 3R	G1043401	0.515	1
HR330	Handle red 330mm IP65 NEMA 3R	H1043402	0.55	1

IEC Fusible Disconnect Switches

Front and Side Operated



M25F30S
25A, F fused, with 3 poles on left side of handle,
side operated



M63D03
63A, D fused, with
3 poles on right side of handle

Switch Body

Ampere Rating	25	50	125	63	160	200	250
Base Part #	M25	M50	M125	M63	M160	M200	M250
Fuse Type	F	F	F	D	D	D	D
3-pole Configuration	12, 30S	03, 30S	03, 30S	03, 30S	03, 30S	03, 30S	03, 30S
Fuse Size	10x38	14x51	22x58	000	00	0	0-1

Switch Body Ampere Rating	25	50	125	63	160	200	250
Fourth Pole							
Fusible Fourth Pole						4PD200	4PD250

Handles



Direct Front Operation	HDF30	HDF200	HDF200	HDF200	HDF200	HDF250T	HDF250T
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External Front Operation - Pistol Style							
NEMA Type 1, 3R, 12, IP65	HB45/65	HB45/65	HB65	HB65	HB65	HB65	HB65
NEMA Type 4, 4X	HB45X	HB45X	HB65X	HB65X	HB65X	HB65X	HB65X

B=Black. Substitute 'R' for 'B' if a red handle is desired. Ex. HR45

External Right-Side Operation - Pistol Style							
NEMA 1, 3R, IP65	HB65S	HB65S	HB65S	HB65S	HB65S	HB65S	HB65S

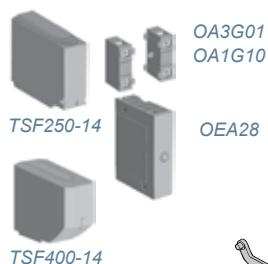
Shafts



Shafts							
	SPA__	SPA__	SPA__	SPA__	SPA__	SPA__	SPA__

Lengths: 210, 290, 360, 430 Ex. SPA210

Accessories



Terminal Shrouds							
3-pole			TSF160-13		TSF160-13	TSF200-13	TSF250-13
4-pole			TSF160-14		TSF160-14	TSF200-14	TSF250-14

Auxiliary Contacts							
NO, use with OSZ4	OA1G10	OA1G10	OA1G10	OA1G10	OA1G10	OA1G10	OA1G10
NC, use with OSZ4	OA3G01	OA3G01	OA3G01	OA3G01	OA3G01	OA3G01	OA3G01
NO, between poles	OA4B1C						
Mounting plate OA1G10/OA3G01	OSZ4	Not needed	Not needed	Not needed	Not needed	Not needed	Not needed
Module for 8 aux. contacts	OEA28	OEA28	OEA28	OEA28	OEA28	OEA28	OEA28

Blown fuse indicators (DPMM), Striker type fuse needed							
Kit 3 poles 1 contact	BFM25FP3						
Kit 3poles 3 contacts		BFM50FP3	BFM125FP3				
Kit 3poles 3NO+NC							BFM800DP3