

UL 98 Fusible Disconnect Switches

UL 98 Fusible Disconnect Switches

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:

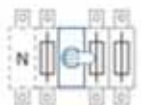
- Main disconnects
- Short circuit protection
- Electrical isolation
- Overcurrent protection
- Safety switch

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	30	J	3	0	S
Switch	M = Mersen AC Switch MD = Mersen DC Switch						
Ampacity	16 to 1200)						
Type	Blank = non-fused UL508 U = non-fused UL98 J = J fused F = NFC fused E = IEC non-fused CC = CC fused D = DIN fused B = BS-88 fused L = L Fused						
Number of Poles/Left side of Handle	AC: 0, 1, 2, 3, 3N, 4, etc. (N = neutral) DC: 0, 1, 2, 3, 4						
Number of Poles/Right side of Handle	AC: Blank = < 200A non-fused, 0, 1, 2, 3, 3N, 4, etc. (N = neutral) DC: Blank = < 100A, 0, 1, 2, 3, 4						
Revision	Blank = 0						
Special Configurations	S = side-operated CH = Changeover DM = door-mounting N = Non-fused switched Neutral						



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-pole Configuration	12, 30S	12, 30, 30S	30, 30S	30

S = Side operated

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

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

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

Shafts				
Shaft	SPA__	SPA__	SPA__	SPA__

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

Terminal Lugs				
6 per package	Integral	Integral	LUG100 (#14 - 2/0)	LUG200 (#6 - 300MCM)

Terminal Shrouds				
3-pole	Integral	Integral	TSF160-13	TSF200-13

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				
Flange operation Mechanism	FOM2	FOM3 (M60J12), FOM4 (M60J30)	FOM4	FOM4
NEMA 4X Flange handle for cable operation	FHC4X	FHC4X	FHC4X	FHC4X
NEMA 3R Flange handle for cable operation	FHC12	FHC12	FHC12	FHC12
Flex cable flange oper 36 inch	CABLE36	CABLE36	CABLE36	CABLE36
Flex cable flange oper 60 inch	CABLE60	CABLE60	CABLE60	CABLE60

Handles



Shafts



Accessories



OA3G01
OA1G10

OEA28

UL 98 Fusible Disconnect Switches

Front and Side Operated



*M400J30
400A, J fused, 3-pole with 3 poles
on left side of handle*



*M800L30S
800A, L fused, with 3 poles
on left side of handle, side operated*

Switch Body

Ampere Rating	400	600	800	1200
Base Part #	M400	M600	M800	M1200
Fuse Type	J	J	L	L
3-pole Configuration	30	30	30	30

Direct Front Operation

	HDF400	HDF800T	HDF800T	HDF1250T
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Handles



External Front Operation - Pistol Style

NEMA Type 1, 3R, 12, IP65	HB125	HB145	HB274	HB274
NEMA Type 4, 4X	HB125X	HB145X	HB274X	HB274X

B = Black. Substitute "R" for "B" if red handle is desired. Ex. HR125

Shafts

Shaft	SFB__	SFB__	SFB__	SFB__
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Lengths: 280, 325, 395mm Ex. SFB280

Shafts



Terminal Lugs

6 per pkg	LUG400 #2 - 600MCM	LUG800 2 x #2 600MCM	LUG800 2 x #2 600MCM	LUG1200 4 x 750MCM
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Terminal Shrouds

3-pole	TSF400-13	TSF800-13	TSF800-13	TSF1200-13
4-pole	TSF400-14	TSF800-14	TSF800-14	TSF1200-14

Accessories



OEA28



TSF400-14

Auxiliary Contacts

Normally open	OA1G10	OA1G10	OA1G10	OA1G10
Normally closed	OA3G01	OA3G01	OA3G01	OA3G01
Module for 8 aux. contacts	OEA28	OEA28	OEA28	OEA28

UL 98 Fusible Disconnect Switches

Technical Data

Technical data according to UL/cULus							
General purpose amp rating	pf= 0.7...0.8	-40° to 40 °C	A	30	60	100	200
Max. operating voltage			VAC	600	600	600	600
			VDC	250	250	250	250
Max. horsepower rating / motor FLA current	pf= 0.4...0.5 Three phase	240 V	HP/A	7.5/22.0	15/42.0	30/80.0	60/154.0
		480 V	HP/A	15/21.0	30/40.0	60/77.0	125/156.0
		600 V	HP/A	20/22.0	50/52.0	75/77.0	150/144.0
	Single phase	120 V	HP/A	2/24.0			
		240 V	HP/A	3/17.0			
Short circuit rating with fuse, 3 and 4-pole types			kA	200	200	200	200
	UL/CSA fuse size		A	30	60	100	200
	UL/CSA fuse type			J/CC	J	J	J
Min. electrical endurance	pf= 0.75...0.8	operation cycles		6000	6000	6000	6000
Mechanical endurance		operation		20 000	20 000	20 000	16 000
Terminal lug kits				Integral	Integral	OZXA-24	OZXA-200
Wire range			AWG	#18-8	#14-4	#14-2/0	#4-300MCM
Torque	Wire tightening		lb.in	17	30/355)	120	275
	Lug mounting		lb.in	N/A	N/A	50	72
Technical data according to IEC 60947-3							
Rated insulation voltage	Pollution degree 3		V	1 000	1 000	1 000	1 000
Dielectric strength		50 Hz 1min.	kV	10	10	10	10
Rated impulse withstand voltage			kV	12			12
Rated thermal current in ambient 40 °C /	In open air		A/W	32/3.5	63/7.5	160/12	200/17
max. fuse power dissipation ¹⁾	In enclosure ²⁾		A/W	32/3.5	63/7.5	160/10, 135/12	200/15
...with minimum cable cross section		Cu	mm ²	6	16	70	95
Rated operational current, AC-23A		up to 500 V	A	32	63	160	200
		690 V	A	32	63	160	200
Rated operational power, AC-233)	The kW-ratings are accurate for three-phase 1500 R.P.M. standard asynchronous motors.	230 V	kW	7.5	18.5	45	60
		400 V	kW	15	30	75	110
		415 V	kW	15	30	75	110
		500 V	kW	18.5	37	90	132
		690 V	kW	22	55	132	200
Rated breaking capacity in category AC-23		up to 500 V	A	256	504	1280	1600
		690 V	A	256	504	1280	1600
Rated short-time withstand current, 1 s	r.m.s. -value		kA	1	2.5	5	8
Power loss / pole	With rated current, without fuse		W	2	4	9	8
Weight without accessories	3-pole switch fuses		kg	0.7	1.3	1.5	2.6
	4-pole switch fuses		kg	0.9	1.6	1.8	
Built-in terminal size		Cu	mm ²	0.75...10	2.5...25		
Terminal bolt size (included)	Metric thread diameter x length		mm			M6x20	M8x25
Fuse-links bolts tightening torque			Nm			4	4

^{*)} = Utilization category B

1) Ambient temperature 60 °C: derating 20%

2) Mounting on "ceiling": derating 10%. Mounting on wall, horizontal fuses: derating 8%.

3) Some fuse links limit these figures further. Starting current characteristics must be considered separately.

4) Approval pending

5) 30 lb.in with cable size #14-10, 35 lb.in with cable size #8-4

UL 98 Fusible Disconnect Switches

Technical Data

Technical data according to UL/cULus							
General purpose amp rating	pf= 0.7...0.8	-40° to 40 °C	A	400	600	800	1200
Max. operating voltage			VAC	600	600	600	600
			VDC	250	250	250	250
Max. horsepower rating / motor FLA current	pf= 0.4...0.5 Three phase	240 V	HP/A	125.0/312.0	200/480.0	250/602.0	250/602.0
		480 V	HP/A	250.0/302.0	400/477.0	500/590.0	500/590.0
		600 V	HP/A	350.0/336.0	500/472.0	500/472.0	500/472.0
	Single phase	120 V	HP/A				
		240 V	HP/A				
Short circuit rating with fuse, 3 and 4-pole types	UL/CSA fuse size		kA	200	200	200	200
			A	400	600	800	1200
				J	J	L	L
Min. electrical endurance	pf= 0.75...0.8	operation cycles		1000	1000	500	500
Mechanical endurance		operation		12 000	4000	3000	2000
Terminal lug kits				OZXA-400	OZXA-800	OZXA-800	OZXA-1200
Wire range			AWG	#2-600MCM	(2)#2-600MCM	(2)#2-600MCM	(4)#2-600MCM
Torque	Wire tightening		lb.in	375	500	500	500
	Lug mounting		lb.in	240	480	480	480
Technical data according to IEC 60947-3							
Rated insulation voltage	Pollution degree 3		V	1 000	1 000	1 000	1 000
Dielectric strength		50 Hz 1min.	kV	10	10	10	10
Rated impulse withstand voltage			kV	12	12	12	12
Rated thermal current in ambient 40 °C /	In open air		A/W	400/45	630/60	800/65	1250/110
max. fuse power dissipation ¹⁾	In enclosure ²⁾		A/W	400/30	570/50	720/55	1000/85
...with minimum cable cross section		Cu	mm ²	240	2x185	2x240	2x400
Rated operational current, AC-23A		up to 500 V	A	400	630	800	1000 *)
		690 V	A	400	630	800	1000 *)
Rated operational power, AC-233)	The kW-ratings are accurate for three-phase 1500 R.P.M. standard asynchronous motors.	230 V	kW	132	200	250	315 *)
		400 V	kW	220	355	450	560 *)
		415 V	kW	230	355	450	560 *)
		500 V	kW	280	450	560	710 *)
		690 V	kW	400	630	710	1000 *)
Rated breaking capacity in category AC-23		up to 500 V	A	3200	6400	6400	8000
		690 V	A	3200	6400	6400	8000
Rated short-time withstand current, 1 s	r.m.s. -value		kA	14	20	20	
Power loss / pole	With rated current, without fuse		W	30	46	75	75
Weight without accessories	3-pole switch fuses		kg	5.7	11.5	11.5	29
	4-pole switch fuses		kg				
Built-in terminal size		Cu	mm ²				
Terminal bolt size (included)	Metric thread diameter x length		mm	M10x30	M12x40	M12x40	M12x50
Fuse-links bolts tightening torque			Nm	20	40	40	40

*) = Utilization category B

1) Ambient temperature 60 °C: derating 20%

2) Mounting on "ceiling": derating 10%. Mounting on wall, horizontal fuses: derating 8%.

3) Some fuse links limit these figures further: Starting current characteristics must be considered separately.

4) Approval pending

5) 30 lb.in with cable size #14-10, 35 lb.in with cable size #8-4

UL 98 Fusible Disconnect Switches

UL-Listed Fused Switches - Front-Operated

Part #	Description	Ref #	Weight	Pkg
M30CC12	Fused switch, 30A, CC, 1+2 pos.	S1043250	0.7	1
M30J12	Fused switch, 30A, J, 1+2 pos.	V1043252	0.7	1
M60J12	Fused switch, 60A, J, 1+2 pos.	X1043254		1
M60J30	Fused switch, 60A, J, 3-p on L	Y1043255		1
M100J30	Fused switch, 100A, J, 3-p on L	A1043257	1.5	1
M200J30	Fused switch, 200A, J, 3-p on L	C1043259	3	1
M400J30	Fused switch, 400A, J, 3-p on L	D1043260	7.3	1
M600J30	Fused switch, 600A, J, 3-p on L	E1043261	13.6	1
M800L30	Fused switch, 800A, L, 3-p on L	F1043262	13	1
M1200L30	Fused switch, 1200A, L, 3-p on L	G1043263	31.00	1

UL-Listed Fused Switches - Side-Operated

Part #	Description	Ref #	Weight	Pkg
M30CC30S	Switch.fus 30A CC R side oper.	T1043251	0.70	1
M30J30S	Switch.fus 30A J R side oper.	W1043253	0.70	1
M60J30S	Switch.fus 60A J R side oper.	Z1043256	1.2	1
M100J30S	Switch.fus 100A J R side oper.	B1043258	1.5	1

Weight in kg without packaging.

Other Accessories

Part #	Description	Ref #	Weight	Pkg
FOM2	Flange operation M30J12/M30CC12	Q1043409	0.1	1
FOM3	Flange operation M60J12	R1043410	0.1	1
FOM4	Flange operation MxxxJ30	S1043411	0.1	1
FHC4X	Flange handle cable 200A 4X	T1043412	0.3	1
FHC12	Flange hdlc cable 200A NEMA 12	V1043413	0.3	1
CABLE36	Flex cable flange oper 36 inch	W1043414	0.40	1
CABLE60	Flex cable flange oper 60 inch	X1043415	0.60	1
LUG100	Lugs #14 - 2/0 100A Switch /6	S1043365	0.43	6
LUG200	Lugs #6 300MCM 200A Switch /6	B1043396	0.20	6
LUG400	Lugs #2 600MCM 400A Switch /6	C1043397	0.60	6
LUG800	Lugs 2x#2 600MCM 800A Switch/6	T1043366	1.70	6
LUG1200	Lugs 4x750MCM 1200A Switch/6	V1043367	1.70	6
OA1G10	Auxiliary Contact NO	P1043477	0.03	1
OA3G01	Aux.Contact NC Switch 160-2500A	R1043479	0.03	1
OA4B1C	Aux.Contact 1+1 SF 40A	K1043473	0.03	1
OSZ4	Mounting plate OA1G10/OA3G01	L1043474	0.06	1
OEA28	Module for SF aux. contacts	M1043475	0.04	1

UL 98 Fusible Disconnect Switches

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
SPA210	Shaft pistol handle 6x6x210mm	P1043431	0.11	1
SPA290	Shaft pistol handle 6x6x290mm	Q1043432	0.14	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	Ter.shrd 1250A Swch.fus1pL /3	L1043451	0.01	3
TSF1250-14	Ter.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

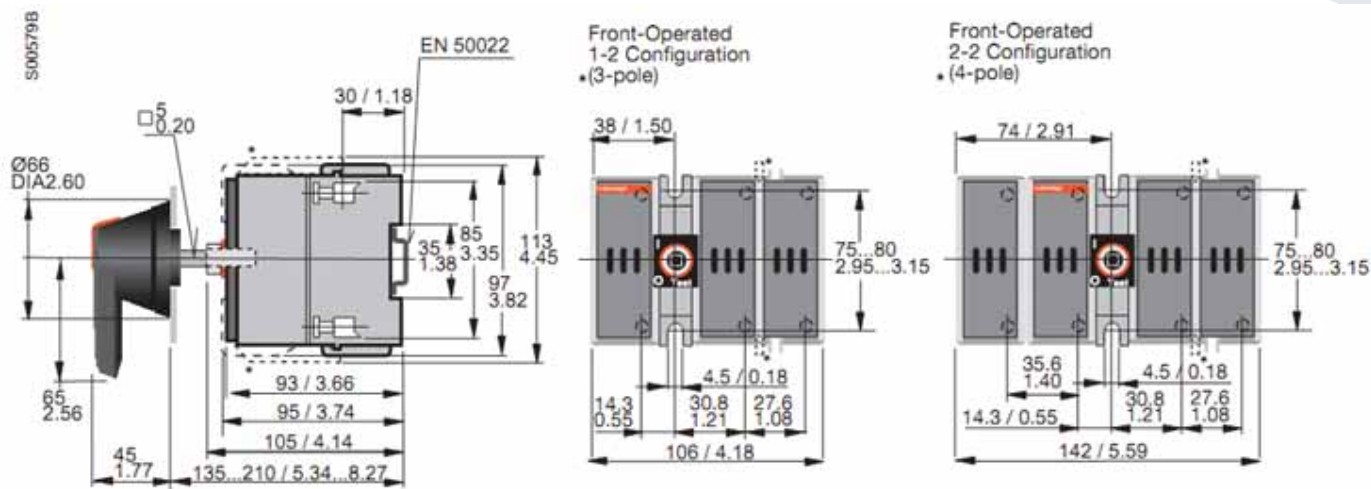
Weight in kg without packaging.

Handles

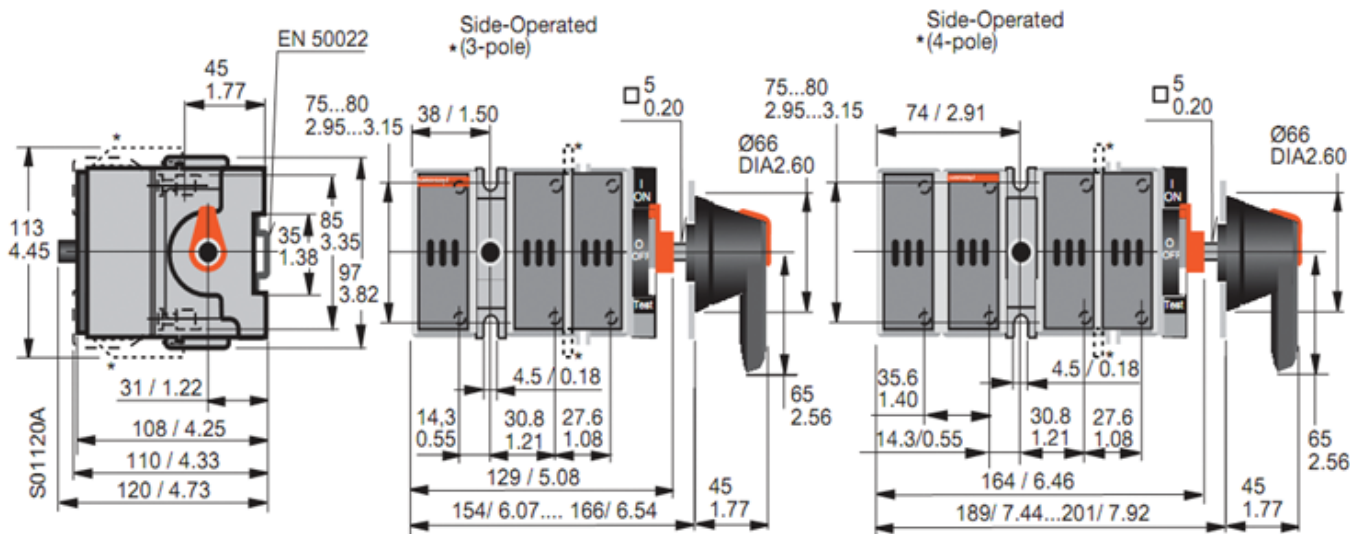
Part #	Description	Ref #	Weight	Pkg
HDF30	Handle direct SF 40A max	P1043408	0.05	1
HDF200	Handle direct SF 200A	P1043385	0.14	1
HDF400	Handle direct SF 400A	Q1043386	0.33	1
HDF800T	Handle dir. SF 800A butterfly	R1043387	1.1	1
HDF1250T	Handle dir. SF 1250A butterfly	S1043388	1.5	1
HDF250T	Handle dir. 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
HR45	Handle red 45mm IP65 NEMA 3R	Q1043915		
HR45X	Handle red 45mm IP65 NEMA 4X	R1043916		
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		
HR95X	Handle red 95mm IP65 NEMA 4X	T1043918		
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

UL 98 Fusible Disconnect Switches

M25F, M30CC, M30J Front operated

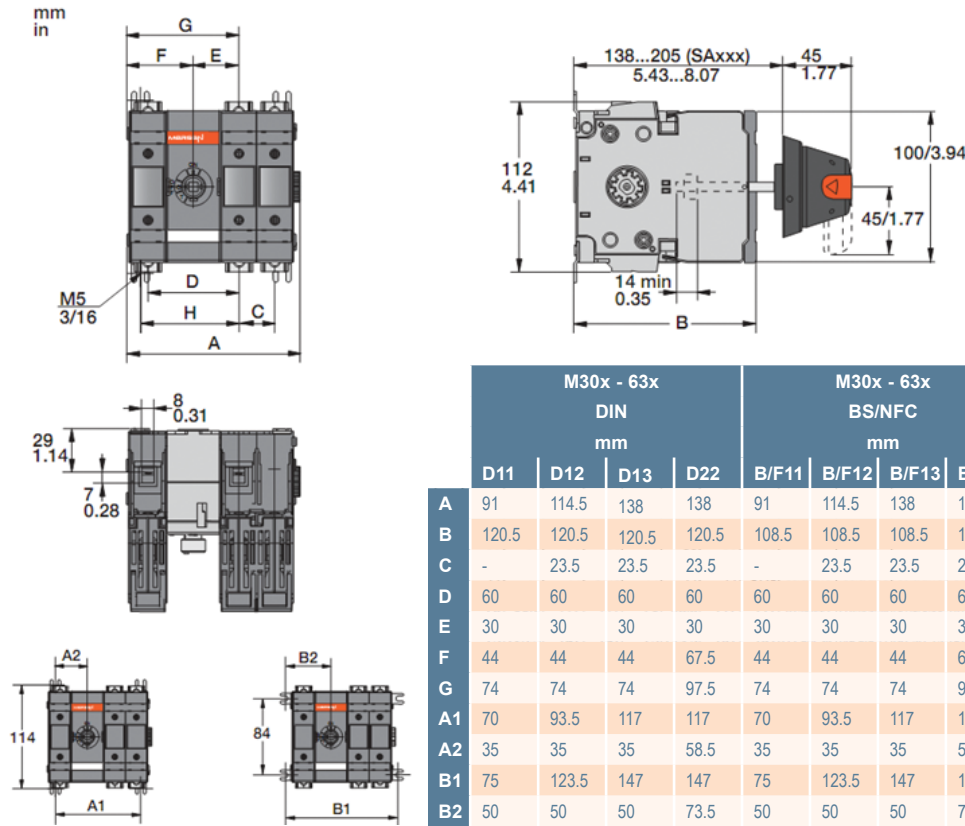


M25F, M30CC, M30J Side operated

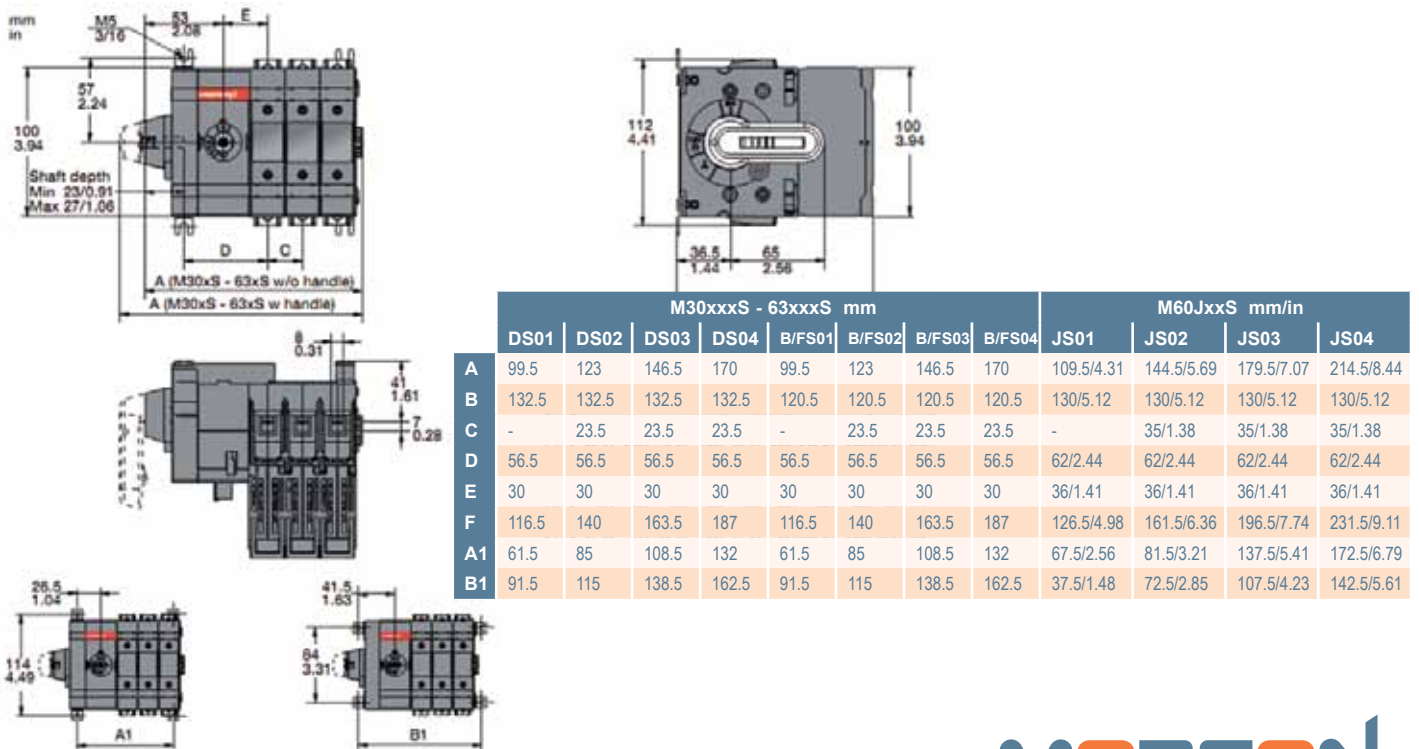


UL 98 Fusible Disconnect Switches

M50F, M63D, M60J, Front operated

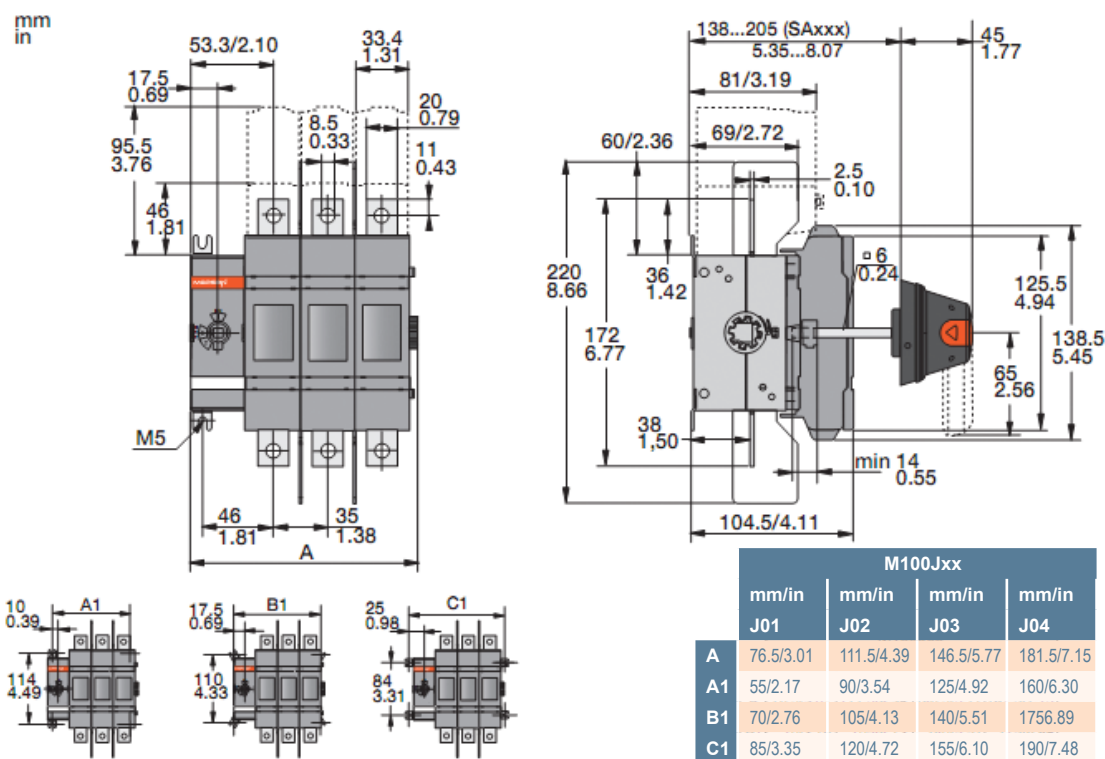


M50F, M63D, M60J, Side operated

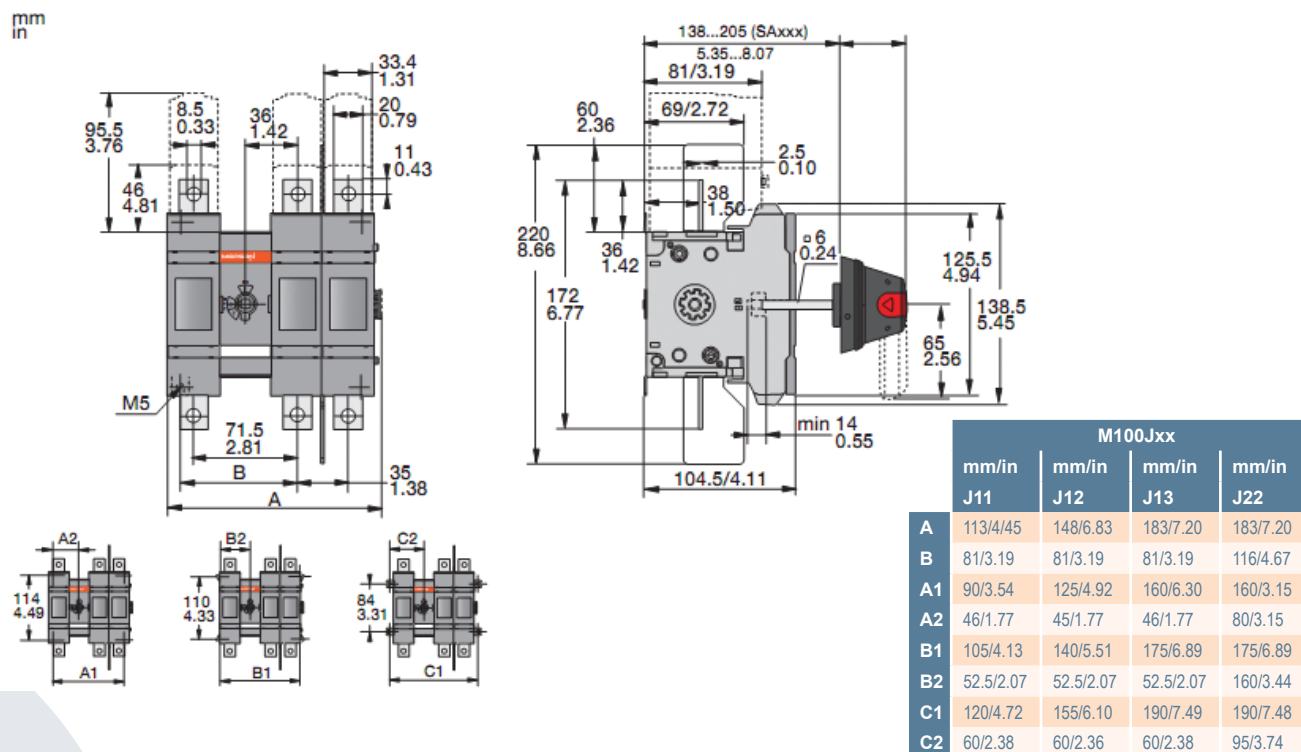


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M100J30, Front operated

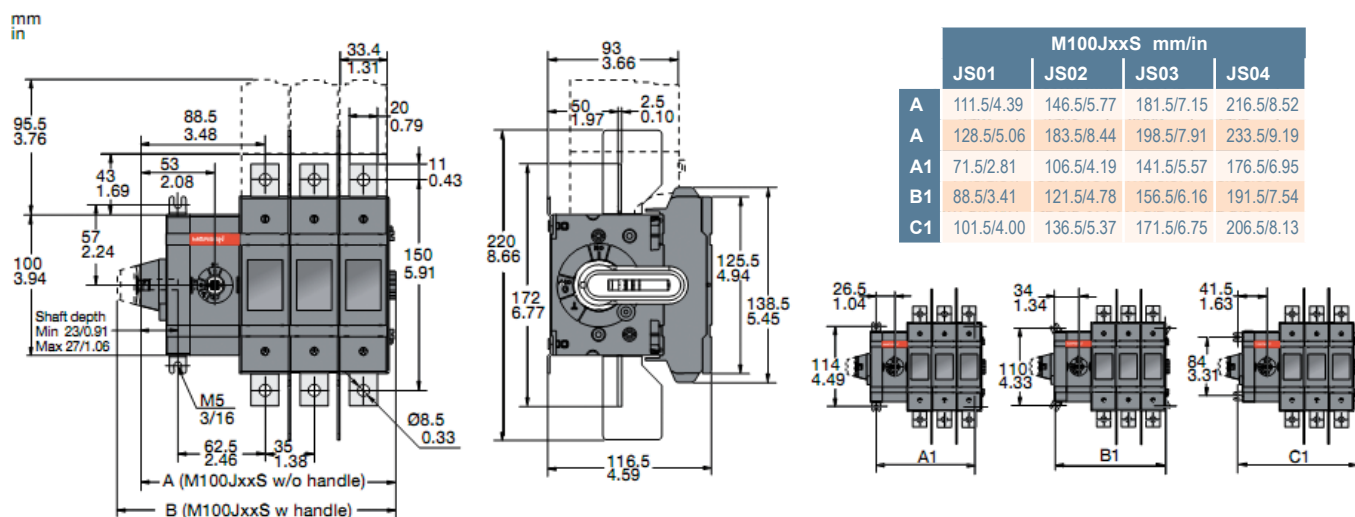


M100J12, Front operated

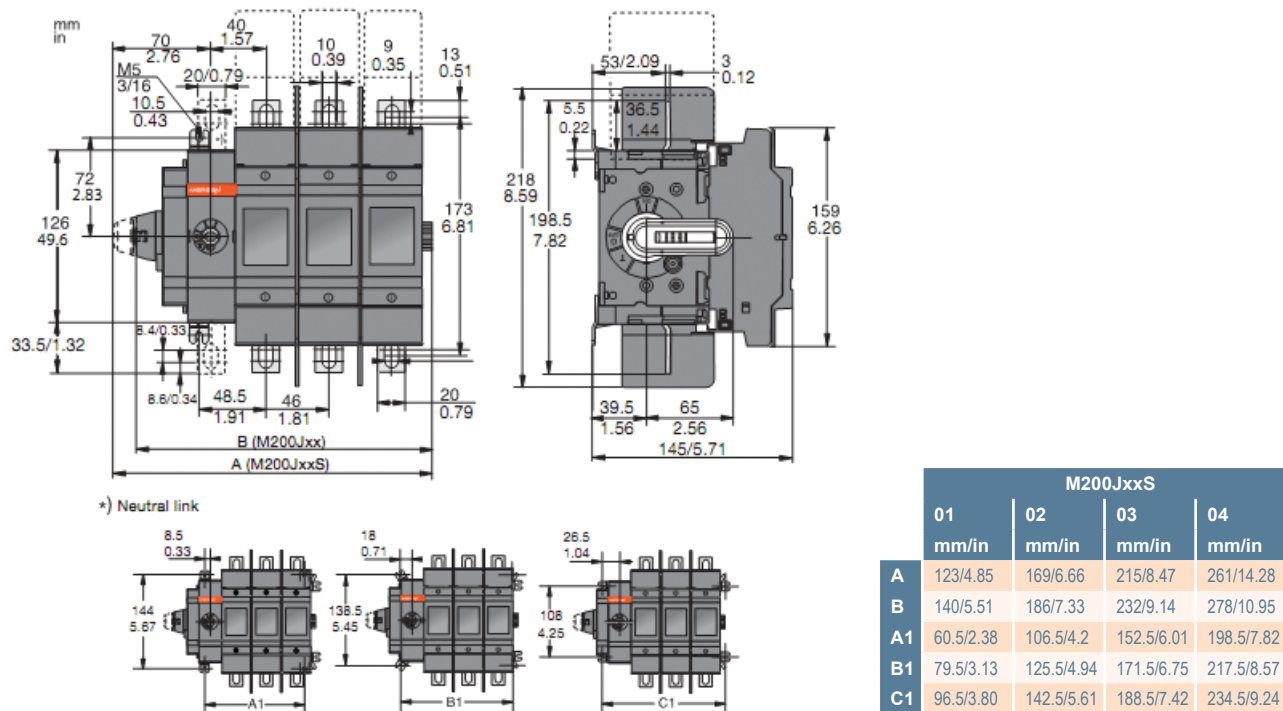


UL 98 Fusible Disconnect Switches

M100J, side operated

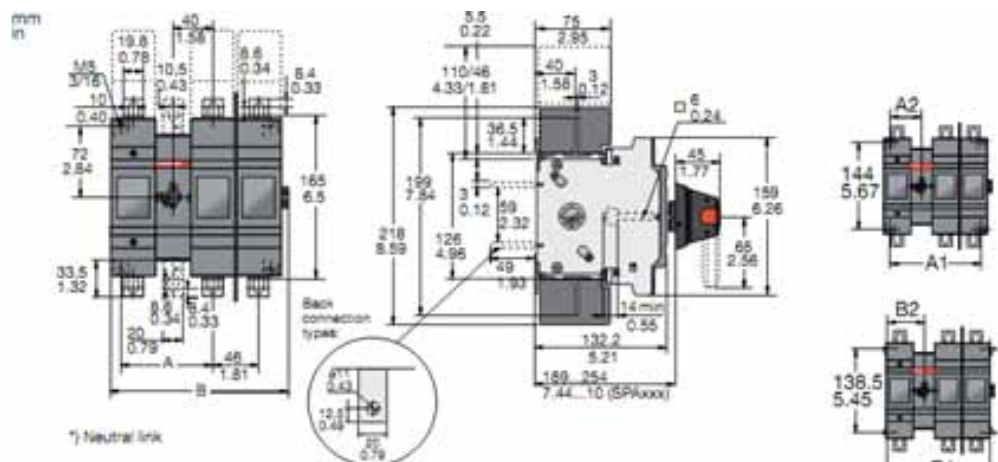


M200J, side operated

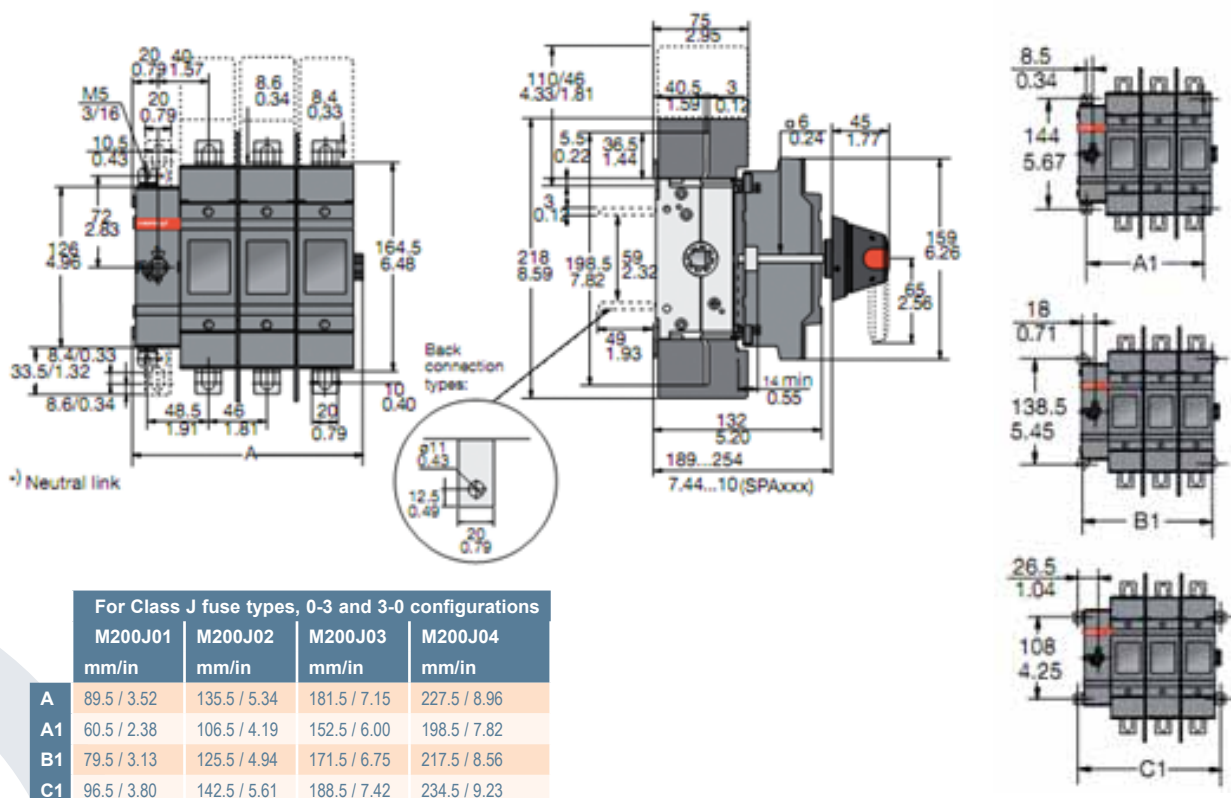


UL 98 Fusible Disconnect Switches

M200J, Front operated



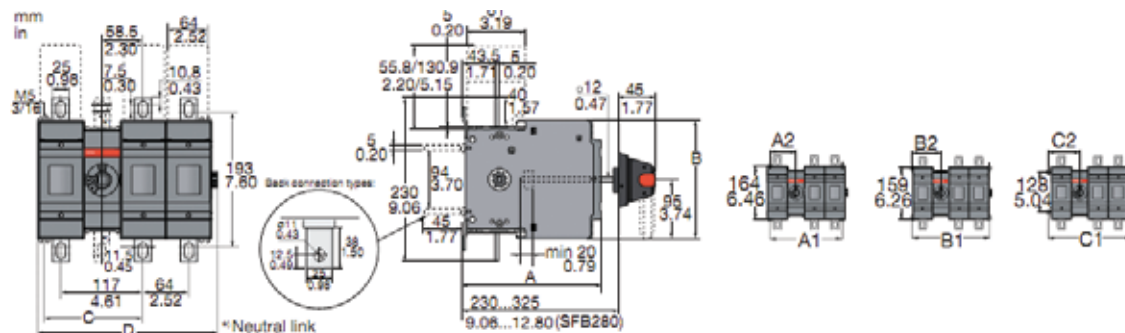
Class J fuse types, 1-1 to 2-2 configurations				
M200xx				
	J11	J12	J13	J22
	mm/in	mm/in	mm/in	mm/in
A	92/3.12	92/3.62	92/3.62	138/5.43
B	132/5.20	178/7.01	224/8.82	224/8.82
A1	104/4.09	150/5.91	196/7.72	196/7.72
A2	52/2.05	52/2.05	52/2.05	98/3.86
B1	106/4.18	169/6.65	215/8.46	215/8.46
B2	61.5/2.42	61.5/2.42	61.5/2.42	107.5/4.23
C1	140/5.51	186/7.32	232/9.13	232/9.13
C2	70/2.76	70/2.76	70/2.76	116/4.57



For Class J fuse types, 0-3 and 3-0 configurations				
	M200J01	M200J02	M200J03	M200J04
	mm/in	mm/in	mm/in	mm/in
A	89.5 / 3.52	135.5 / 5.34	181.5 / 7.15	227.5 / 8.96
A1	60.5 / 2.38	106.5 / 4.19	152.5 / 6.00	198.5 / 7.82
B1	79.5 / 3.13	125.5 / 4.94	171.5 / 6.75	217.5 / 8.56
C1	96.5 / 3.80	142.5 / 5.61	188.5 / 7.42	234.5 / 9.23

UL 98 Fusible Disconnect Switches

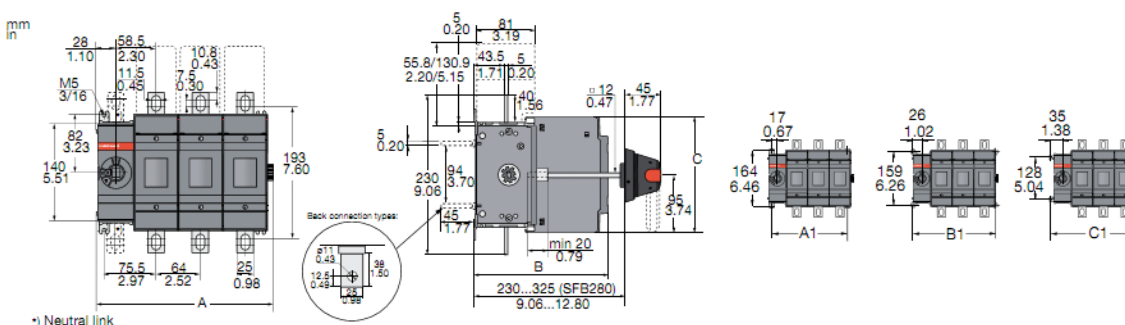
M400D, M400J, 11 to 22 configuration, Front operated



	M315B30 - M400B30					M400D30 - M400J30									
	B11 mm	B12 mm	B13 mm	B21 mm	B22 mm	D11 mm	D12 mm	D13 mm	D21 mm	D22 mm	J11 mm/in	J12 mm/in	J13 mm/in	J21 mm/in	J22 mm/in
A	176	176	176	176	176	193	193	193	193	193	176/6.93	176/6.93	176/6.93	176/6.93	176/6.93
B	194	194	194	194	194	166	166	166	166	166	194/7.64	194/7.64	194/7.64	194/7.64	194/7.64
C	140	140	140	204	204	140	140	140	204	204	140/5.51	140/5.51	140/5.51	204/8.03	204/8.03
D	190	254	318	254	318	190	254	318	254	318	190/7.48	254/10.0	318/12.52	254/10.0	318/12.52

	M315x					M400x				
	B11 mm	B12 mm	B21 mm	B22 mm	B13 mm	B11/D11/J11 mm/in	B12/D12/J12 mm/in	B21/D21/J21 mm/in	B22/D22/J22 mm/in	B13/D13/J13 mm/in
A1	163	227	227	291	291	163/6.42	227/8.94	227/8.94	291/11.46	291/11.46
A2	81.5	81.5	145.5	145.5	81.5	81.5/3.21	81.5/3.21	145.5/5.73	145.5/5.73	81.5/3.21
B1	181	245	245	309	309	181/7.13	245/9.65	245/9.65	309/12.17	309/12.17
B2	90.5	90.5	154.5	154.5	90.5	90.5/3.56	90.5/3.56	154.5/6.08	154.5/6.08	90.5/3.56
C1	199	263	263	327	327	199/7.83	263/10.35	263/10.35	327/12.87	327/12.87
C2	99.5	99.5	163.5	163.5	99.5	99.5/3.92	99.5/3.92	163.5/6.44	163.5/6.44	99.5/3.92

M400D, M400J, 30 or 03 configuration, Front operated

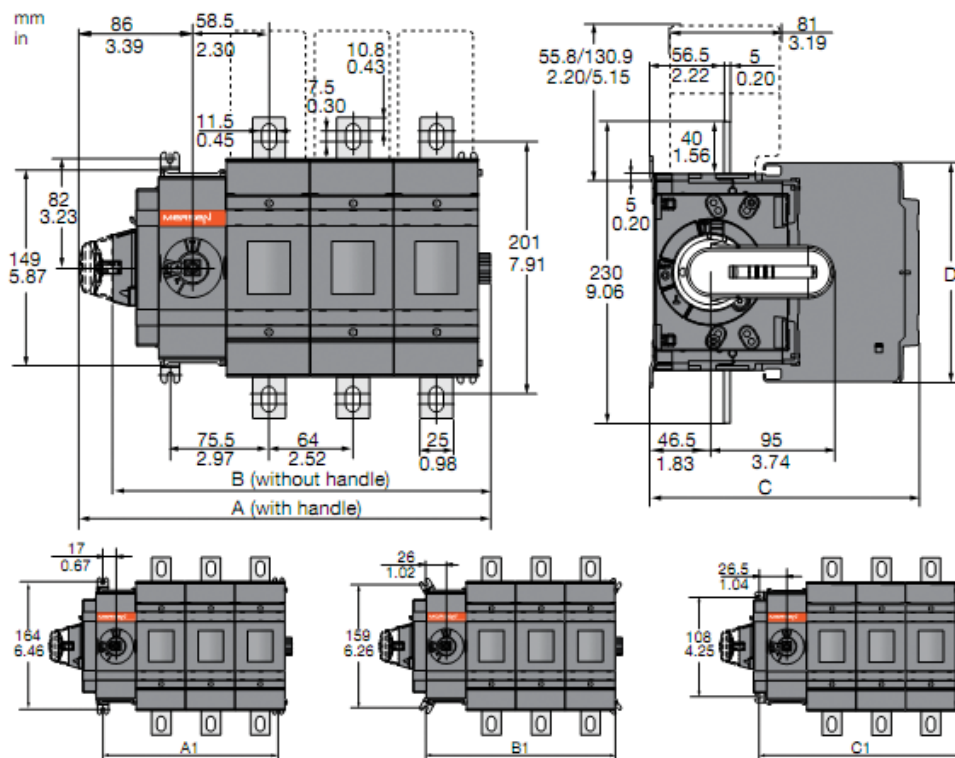


	M315B30 - M400B30				M400D30 - M400J30							
	B01 mm	B02 mm	B03 mm	B04 mm	D01 mm	D02 mm	D03 mm	D04 mm	J01 mm/in	J02 mm/in	J03 mm/in	J04 mm/in
A	127	191	255	319	127	191	255	319	127/5.00	191/7.52	255/10.04	319/12.56
B	176	176	176	176	193	193	193	193	176/6.93	176/6.93	176/6.93	176/6.93
C	194	194	194	194	166	166	166	166	194/7.64	194/7.64	194/7.64	194/7.64

	M315x				M400x			
	B01 mm	B02 mm	B03 mm	B04 mm	B01/D01/J01 mm/in	B02/D02/J02 mm/in	B03/D03/J03 mm/in	B04/D04/J04 mm/in
A1	98.5	162.5	226.5	290.5	98.5/3.88	162.5/6.40	226.5/8.92	290.5/11.44
B1	116.5	180.5	244.5	308.5	116.5/4.59	180.5/7.11	244.5/9.63	308.5/12.15
C1	134.5	198.5	262.5	326.5	134.5/5.30	198.5/7.81	262.5/10.33	326.5/12.85

UL 98 Fusible Disconnect Switches

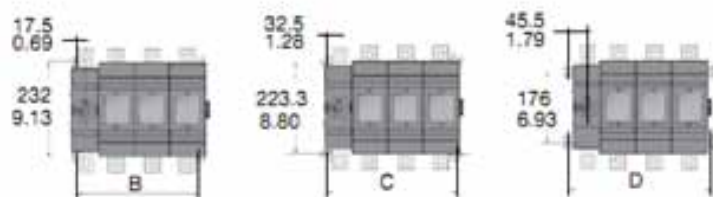
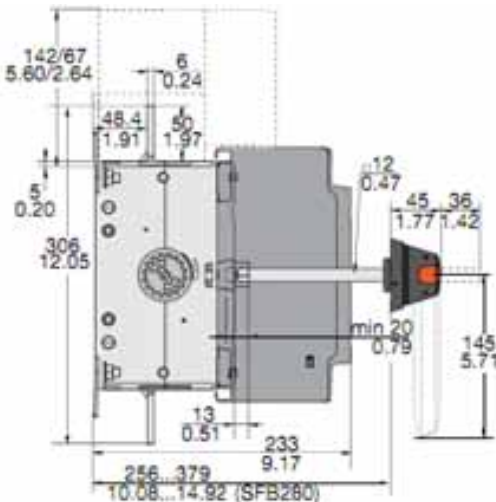
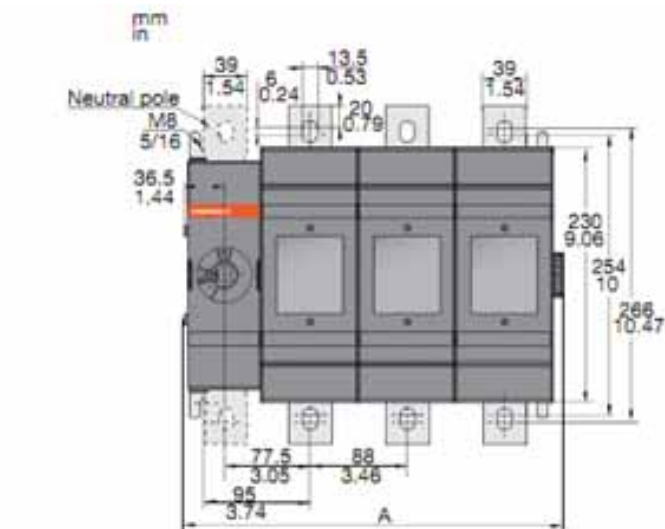
M400D, M400J, Side operated



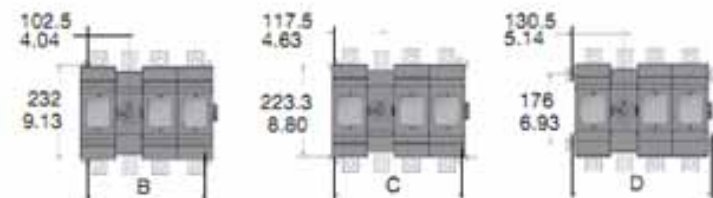
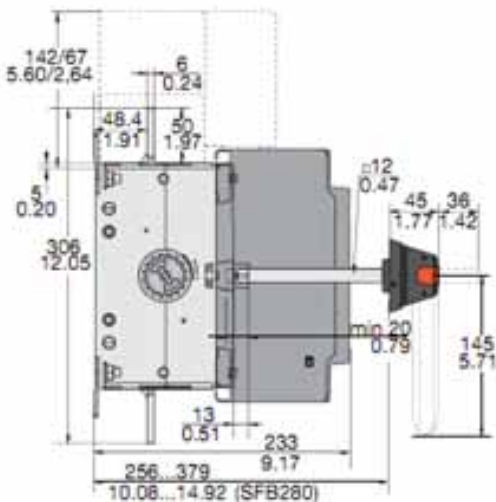
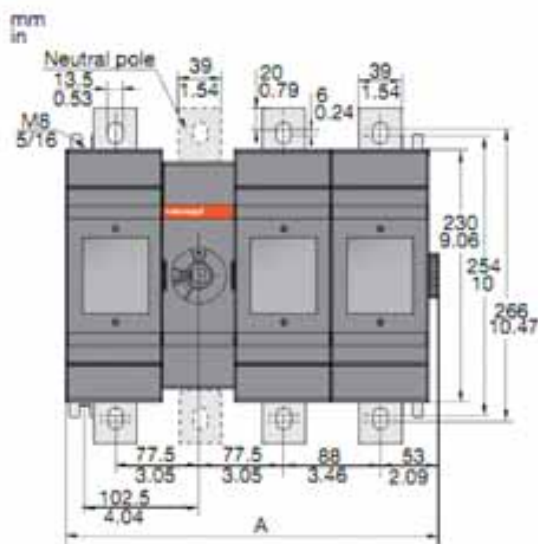
M315xS-M400xS																
	BS01/JS01		BS02/JS02		BS03/JS03		BS04/JS04		DS01		DS02		DS03		DS04	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
A	185.0	7.28	249.0	9.80	313.0	12.32	377.0	14.84	185.0	7.28	249.0	9.80	313.0	12.32	377.0	14.84
B	160.0	6.30	224.0	8.82	288.0	11.34	352.0	13.86	160.0	6.30	224.0	8.82	288.0	11.34	352.0	13.86
C	176.0	6.93	176.0	6.93	176.0	6.93	176.0	6.93	193.0	7.60	193.0	7.60	193.0	7.60	193.0	7.60
D	194.0	7.64	194.0	7.64	194.0	7.64	194.0	7.64	166.0	6.54	166.0	6.54	166.0	6.54	166.0	6.54
A1	98.5	3.88	162.5	6.40	226.5	8.92	290.5	11.44	98.5	3.88	162.5	6.40	226.5	8.92	290.5	11.44
B1	116.5	4.59	180.5	7.11	244.5	9.63	308.5	12.15	116.5	4.59	180.5	7.11	244.5	9.63	308.5	12.15
C1	134.5	5.30	198.5	7.81	262.5	10.33	326.5	12.85	134.5	5.30	198.5	7.81	262.5	10.33	326.5	12.85

UL 98 Fusible Disconnect Switches

M630-800D, M600J-800L, Front operated



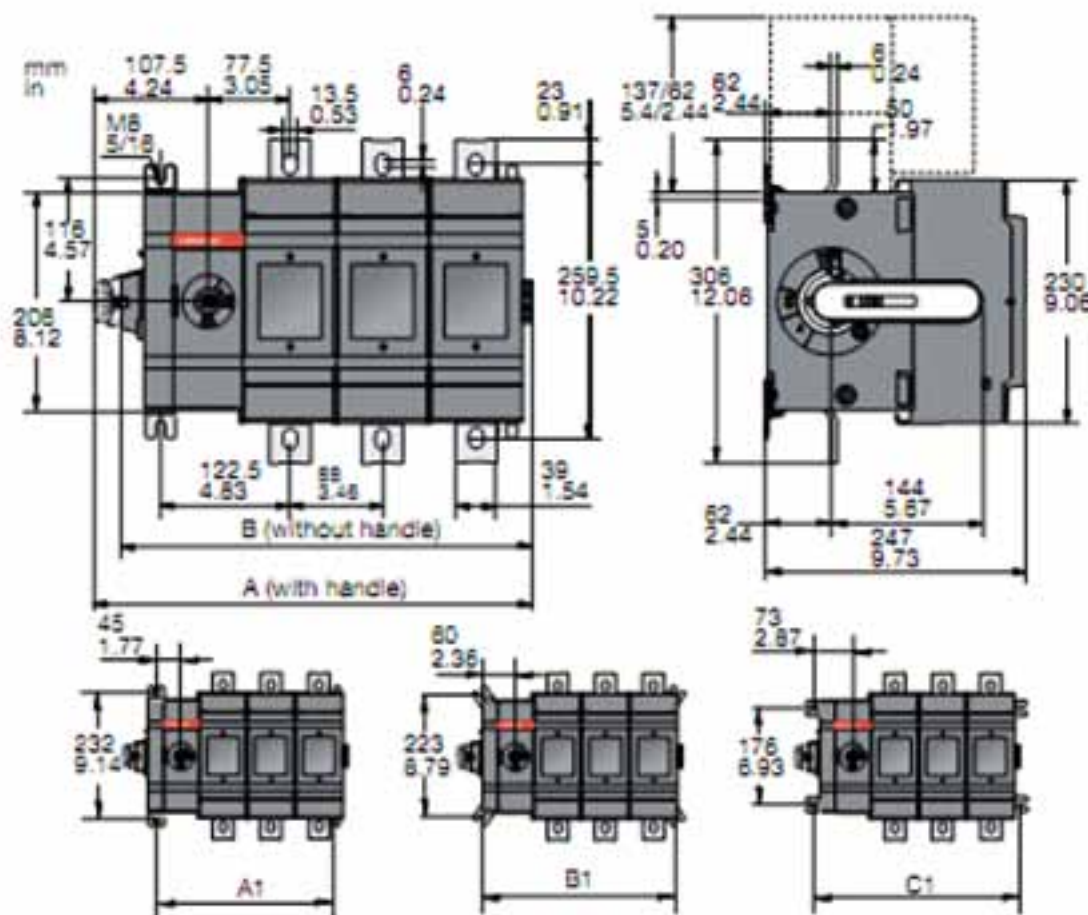
	D/B/J/L01	D/B/J/L02	D/B/J/L03	D/B/J/L04
A	167/6.57	255/10.04	343/13.50	431/16.97
B	120/4.72	208/8.19	296/11.65	384/15.12
C	150/5.91	238/9.37	326/12.83	414/16.30
D	176/6.93	264/10.39	352/13.86	440/17.32



	D/B/J/L11	D/B/J/L12	D/B/J/L13	D/B/J/L14
A	253/9.96	341/13.43	429/16.89	429/16.89
B	205/8.07	293/11.54	381/15.00	381/15.00
C	235/9.25	323/12.72	411/16.18	411/16.18
D	261/10.28	349/13.74	437/17.20	437/17.20

UL 98 Fusible Disconnect Switches

M630-800D, M600J-800L, Side operated

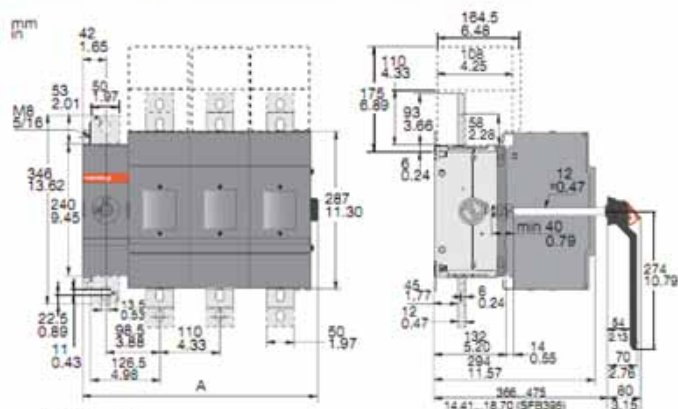


M600xS-M800xS				
	DS/BS/JS/LS01 mm/in	DS/BS/JS/LS02 mm/in	DS/BS/JS/LS03 mm/in	DS/BS/JS/LS04 mm/in
A	238/9.38	326/12.84	414/16.31	502/19.78
B	213/8.39	301/11.86	389/15.32	477/18.79
A1	147.5/5.81	235.5/9.28	323.5/12.75	411.5/16.21
B1	177.5/6.99	265.5/10.46	353.5/13.93	441.5/17.39
C1	203.5/8.02	291.5/11.48	379.5/14.95	467.5/18.42

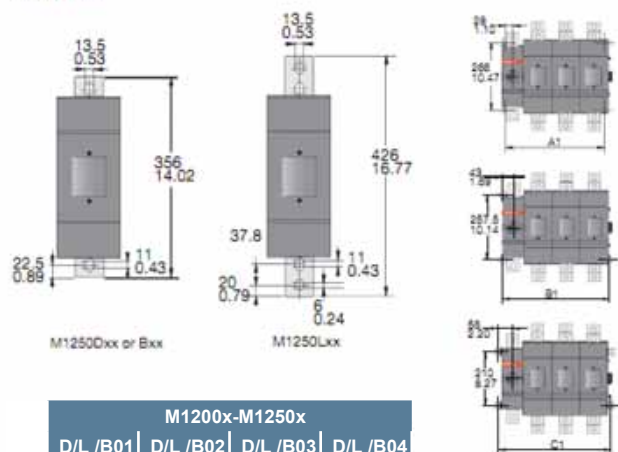
UL 98 Fusible Disconnect Switches

M1200L, M1250D, Front operated

For DIN, BS and L Fuse Types with gearbox on the side

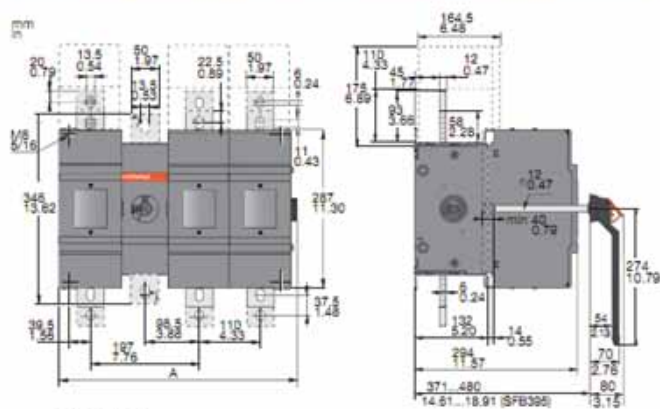


*) Neutral pole

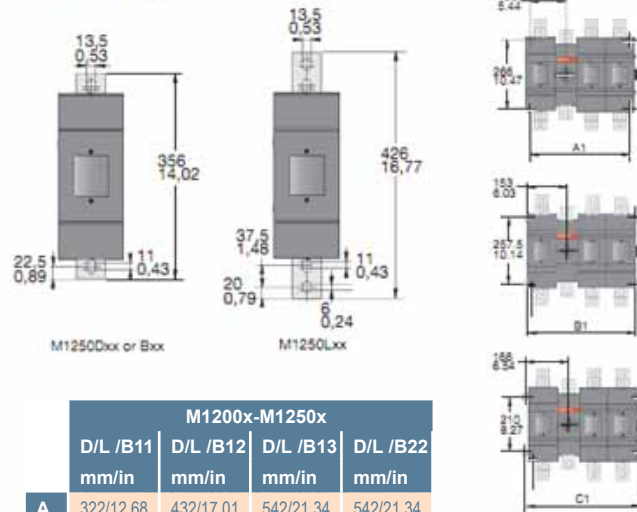


	M1200x-M1250x			
	D/L /B01	D/L /B02	D/L /B03	D/L /B04
	mm/in	mm/in	mm/in	mm/in
A	209/8.23	319/12.56	429/16.89	539/21.22
A1	166/6.54	276/10.87	386/15.20	496/19.53
B1	196/7.72	306/12.05	416/16.38	526/20.71
C1	222/8.74	332/13.07	442/17.40	552/21.73

For DIN, BS and L Fuse Types with gearbox in the middle



*) Neutral pole



	M1200x-M1250x			
	D/L /B11	D/L /B12	D/L /B13	D/L /B22
	mm/in	mm/in	mm/in	mm/in
A	322/12.68	432/17.01	542/21.34	542/21.34
A1	276/10.87	386/15.20	496/19.53	496/19.53
B1	306/12.05	416/16.38	526/20.71	526/20.71
C1	322/13.07	442/17.40	552/21.73	552/21.73