UL 98 Fusible Disconnect Switches

DISCONNECT SWITCHES



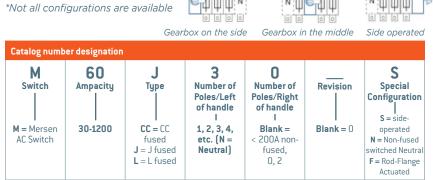
Mersen's fusible disconnect switches are listed to UL 98 and bear the CE mark conforming to IEC 60947-3. They are "service entrance" devices capable of fully rated load-break and load-make. While longterm safety, reliability, and functionality are always paramount in the design of our products, these 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 and accessories is available.

CONFIGURATIONS:



N





RATINGS UL:

- Volts: 600VAC
- **Amps:** 30, 60, 100, 200, 400, 600, 800, and 1200A
- **Short-Circuit Current Rating** (SCCR): Up to 200kA with Class CC, J, or L Fuses

FEATURES/ **BENEFITS**:

- **Multiple Configurations**
- Power taps
- Adjustable shaft depth
- Fuse monitoring
- Double break, isolating live and load side of fuse
- Interlocked fuse doors

APPROVALS:

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





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UL 98 FUSIBLE Disconnect Switches

UL LISTED FRONT AND SIDE OPERATED

M30CC12 30A, CC fused, 3-pole with pole on of handle and 2 poles on right		M60J30 60A, J fused, with 3 poles on left side of handle	0 -0 -0	M200J30 w used, 3 poles or	vith HDF200	rect handle		
Switch Body			30	60	100	200		
Switch Body	Ampere Rati	ng						
	Base Part #		M30	M60	M100	M200		
	Fuse Type		CC, J	J	J	J		
	3- and 4-pole	e configurations	12, 22, 30F, 30S	12, 22, 22N, 30, 30F, 30S, 40, 40N	12, 22, 22N, 30, 30F, 30S, 40, 40N	30, 40		
	S = Side oper	ated F = Rod-Flange actuated (Direct Side Operated Har	ndles are includ	led with 'S' onti	onl			
Handles and Shafts	Direct Front		laide are includ		011)			
	Direct Holit		HDF30	HDF200	HDF200	HDF200		
			HDF30	HDF200	HDF200	HDF200		
		nt Operation - Pistol style						
		, 3R, 12, IP65	HB45		HB65, HB80			
HB65	NEMA Type 4	, 4X	HB45X					
	NEMA 4X Stainless Steel HM65X							
HDF200	B=Black. Substitute 'R' for 'B' if a red handle is desired. Ex. HR45							
HR45 HDF200	Shafts							
	Shaft— SPAx	xx (xxx = length in mm)	SPA13	0, SPA210, SPA	290, SPA360, S	SPA430		
Accessories	Terminal Lug	S						
Accessories	Terminal Lug			1	LUG100	LUG200		
Accessories	Terminal Lug 6 per packag		Integral	Integral	LUG100 (#14 - 2/0)	LUG200 (#6 -300MCM)		
Accessories		e	Integral	Integral				
Accessories	6 per packag Terminal Sh r	e ouds			(#14 - 2/0)	(#6 -300MCM)		
Accessories	6 per packag Terminal Shr 3-pole (3 sin	e ouds gle shrouds per package)	Integral Integral	Integral	(#14 - 2/0) TSF160-13	(#6-300MCM) TSF200-13		
Accessories	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin	e ouds gle shrouds per package) gle shrouds per package)	Integral	Integral	(#14 - 2/0) TSF160-13 TSF160-14	(#6-300MCM) TSF200-13 TSF200-14		
~ *	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh	Integral	Integral	(#14 - 2/0) TSF160-13 TSF160-14	(#6-300MCM) TSF200-13 TSF200-14		
OA3G01	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh	Integral prouds with "-13"	Integral or "-14" are sing	(#14 - 2/0) TSF160-13 TSF160-14 le pole shrouds	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per		
OA3G01	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh	Integral prouds with "-13"	Integral or "-14" are sing 0A1G10	(#14 - 2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10		
OA3G01	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ntacts*	Integral nrouds with "-13" 0A1610, w/0SZ4 0A3601, w/0SZ4	Integral or "-14" are sing OA1G10 OA3G01	(#14 - 2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01		
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DA3G01	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ntacts* poles te 0A1G10/0A3G01	Integral Inrouds with "-13" 0A1610, w/05Z4 0A3601, w/05Z4 0A4B1C 0SZ4	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed	(#14 - 2/0) TSF160-13 TSF160-14 le pole shrouds 0A1610 0A3601 N/A Not needed	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1610 0A3601 N/A Not needed		
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OA3G01 OA1G10	6 per package Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh htacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC	Integral Inrouds with "-13" 0A1610, w/05Z4 0A3601, w/05Z4 0A4B1C 0SZ4	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed	(#14 - 2/0) TSF160-13 TSF160-14 le pole shrouds 0A1610 0A3601 N/A Not needed	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1610 0A3601 N/A Not needed		
OA3G01 OA1G10	6 per package Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Operation	e ouds gle shrouds per package] gle shrouds per package] "-3" suffix are single shrouds that cover all three terminals. Sh htacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation	Integral Integral 0A1610, w/0SZ4 0A3601, w/0SZ4 0A4B1C 0SZ4 0EA28	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01 N/A Not needed 0EA28		
OA3G01 OA1G10	6 per package Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m. Flange Opera Cable Flange	e ouds gle shrouds per package] gle shrouds per package] "-3" suffix are single shrouds that cover all three terminals. Sh ntacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12	Integral Integral 0A1610, w/0SZ4 0A3601, w/0SZ4 0A4B1C 0SZ4 0EA28 FHC12	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12		
OA3G01 OA1G10	6 per package Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m. Flange Opera Cable Flange	e ouds gle shrouds per package] gle shrouds per package] "-3" suffix are single shrouds that cover all three terminals. Sh htacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation	Integral Integral 0A1610, w/0SZ4 0A3601, w/0SZ4 0A4B1C 0SZ4 0EA28	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC12 FHC4X	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01 N/A Not needed 0EA28		
OA3G01 OA1G10	6 per package Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m. Flange Opera Cable Flange	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ntacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 4X	Integral Integral 0A1610, w/0SZ4 0A3601, w/0SZ4 0A4B1C 0SZ4 0EA28 FHC12	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12		
OA3G01 OA1G10	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Opera Cable Flange	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ntacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 4X smbly	Integral Integral 0A1610,w/0SZ4 0A3601,w/0SZ4 0A4B1C 0SZ4 0EA28 FHC12 FHC12 FHC4X	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X FOM3 for M60J12, FOM4 for	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC12 FHC4X	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1610 0A3601 N/A Not needed 0EA28 FHC12 FHC12 FHC4X		
OA3G01 OA1G10	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Opera Cable Flange Bracket Asse Cable for FHC	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ntacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 4X smbly	Integral Integral Integral 0A1610, w/0524 0A3601, w/0524 0A4B1C 0SZ4 0EA28 FHC12 FHC12 FHC4X FOM2 CABLE36*	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X FOM3 for M60J12, FOM4 for M60J30	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X F0M4	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1610 0A3601 N/A Not needed 0EA28 FHC12 FHC12 FHC4X FOM4		
OA3G01 OA1G10	6 per package Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Opera Cable Flange Cable Flange Bracket Asset Cable for FHO *Other cable	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh tacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 4X embly Chandles lengths available: 48", 60", 72", 84", 96", 108". For example	Integral Integral Integral 0A1610, w/0524 0A3601, w/0524 0A4B1C 0SZ4 0EA28 FHC12 FHC12 FHC4X FOM2 CABLE36*	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X FOM3 for M60J12, FOM4 for M60J30	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X F0M4	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1610 0A3601 N/A Not needed 0EA28 FHC12 FHC12 FHC4X FOM4		
OA3G01 OA1G10 OEA28	6 per package Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Con NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Opera Cable Flange Cable Flange Bracket Asset Cable for FHO *Other cable	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh tacts* poles te 0A1G10/0A3G01 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 12 Handle, NEMA 4X embly C handles lengths available: 48", 60", 72", 84", 96", 108". For examp ation for Rod Actuation*	Integral Integral Integral 0A1610, w/0524 0A3601, w/0524 0A4B1C 0SZ4 0EA28 FHC12 FHC12 FHC4X FOM2 CABLE36*	Integral or "-14" are sing 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X FOM3 for M60J12, FOM4 for M60J30	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X F0M4	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1610 0A3601 N/A Not needed 0EA28 FHC12 FHC12 FHC4X FOM4		
CA3G01 OA1G10 OEA28	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Cor NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Opera Cable Flange Bracket Asse Cable for FHC *Other cable Flange Opera Flange brack	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ttacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 12 Handles lengths available: 48", 60", 72", 84", 96", 108". For examplation for Rod Actuation* et assembly	Integral Integr	Integral or "-14" are sing OA1G10 OA3G01 N/A Not needed OEA28 FHC12 FHC4X FOM3 for M60J32, FOM4 for M60J30 CABLE36*	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC12 FHC4X FOM4 CABLE36* Incl with M100J30F	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X FOM4 CABLE36*		
OA3G01 OA1G10 OEA28	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Cor NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Opera Cable Flange Bracket Asse Cable for FHC *Other cable Flange Opera Flange brack	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ttacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 4X mbly Chandles lengths available: 48", 60", 72", 84", 96", 108". For examplation for Rod Actuation* et assembly andle NEMA 12	Integral Integr	Integral or "-14" are sing OA1G10 OA3G01 N/A Not needed OEA28 FHC12 FHC4X FOM3 for M60J32, FOM4 for M60J30 CABLE36*	(#14-2/0) TSF 160-13 TSF 160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC12 FHC4X FOM4 CABLE36* Incl with M100J30F FHR12	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X FOM4 CABLE36* NA		
ОАЗG01 ОАЗG01 ОАЗG01 ОАЗG01 ОАЗG01 ОАЗG01 ОЕА28	6 per packag Terminal Shr 3-pole (3 sin 4-pole (4 sin Shrouds with Auxiliary Cor NO NC NO, between Mounting pla Module for 8 *Rated 2A m Flange Opera Cable Flange Bracket Asse Cable Flange Bracket Asse Cable for FHC *Other cable Flange Opera Flange brack Rod Flange h Rod Flange h	e ouds gle shrouds per package) gle shrouds per package) "-3" suffix are single shrouds that cover all three terminals. Sh ttacts* poles te 0A1610/0A3601 aux. contacts ax continous @690VAC ation for Cable Actuation Handle, NEMA 12 Handle, NEMA 12 Handles lengths available: 48", 60", 72", 84", 96", 108". For examplation for Rod Actuation* et assembly	Integral Integr	Integral or "-14" are sing OA1G10 OA3G01 N/A Not needed OEA28 FHC12 FHC4X FOM3 for M60J32, FOM4 for M60J30 CABLE36*	(#14-2/0) TSF160-13 TSF160-14 le pole shrouds 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC12 FHC4X FOM4 CABLE36* Incl with M100J30F	(#6-300MCM) TSF200-13 TSF200-14 with 3 or 4 per 0A1G10 0A3G01 N/A Not needed 0EA28 FHC12 FHC4X FOM4 CABLE36*		

UL LISTED FRONT AND SIDE OPERATED

	0	0	0
0	0	0	Mersen
0	0	0	



400A, J fuse		0J30 8 poles on left side of handle	800A, L fu	M80 used, with 3 po	0L30 Iles on left side	of handle	
Switch Body		Ampere Rating		400	600	800	1200
		Base Part #		M400	M600	M800	M1200
		Fuse Type		J	J	L	L
		3- and 4-pole configurations		12, 30, 40	12, 30, 40	12, 30, 40	30,40
Handles and Shafts		Direct Front Operation					
				HDF400	HDF800T	HDF800T	HDF1250T
		External Front Operation					
	Lange and Lange	NEMA Type 1, 3R, 12			HB125, HB	145, HB274	
HB125	\bigcirc	NEMA Type 4, 4X			HB125X, HB	145X, HB274X	
		NEMA 4X Stainless Steel			HM125X	, HM175X	
	HDF400	B=Black. Substitute 'R' for 'B' if a red hand	lle is desired. Ex. HR125				
SFB135	<i>NDF4</i> 00	Shafts					
1	and the second second	Shaft— SFBxxx (xxx = length in mm)		SFB185	5, SFB280, SFE	325, SFB395,	SFB535
Accessories		Terminal Lugs					
	A1G01 A1G10	6 per package		LUG400 #2 - 600MCM	LUG800 2 x #2 600MCM	LUG800 2 x #2 600MCM	LUG1200 4 x #2 600MCM
		Terminal Shrouds					
01	EA28	3-pole		TSF400-3	TSF600-3	TSF800-13	TSF1250-13
		Suffix "-3" indicates a single piece 3-pole shro	oud; Suffix "-13" indicates three i	ndividual single	e pole shrouds p	er package.	
		When a switch is to be installed with lugs and	terminal shrouds, a TSFXXX-3	(single piece, 3-	-pole) model of	shroud is recom	nmended.
		Auxiliary Contacts*					
		Normally Open		0A1G10	0A1G10	0A1G10	0A1G10
	I.	Normally Closed		0A3G01	0A3G01	0A3G01	0A3G01
TSF400-13		Module for 8 aux. contacts		0EA28	0EA28	0EA28	0EA28

*Rated 2A max continous @690VAC

UL 98 FUSIBLE

Disconnect Switches

General Purpose Amp Rating	pf= 0.70.8	-5° to 40 °C	A	30	60	100	200
Maximum Operating Voltage	pi= 0.10.0		VAC	600	600	600	600
			VDC	250	250	250	250
Max. horsepower rating / motor FLA current	pf= 0.40.5 Three phase	240 V	HP/A	7.5/22.0	15/42.0	30/80.0	60/154.0
Max. norsepower rating / motor FLA current		480 V	HP/A	15/21.0	30/40.0	60/77.0	125/156.0
		400 V	HP/A	20/22.0	50/52.0	75/77.0	150/144.0
	Single phase	120 V	HP/A	2/24.0	30/32.0	13/11.0	130/ 144.0
	Single phase	240 V	HP/A	3/17.0			
Short circuit rating with fuse, 3- and 4- pole types			kA	200	200	200	200
shortenear rating with use, 5 and 4 pole types	UL/CSA fuse size		A	30	60	100	200
	UL/CSA fuse type			J/CC	J	J	J
Indurances	OL/CSATUSC (gpc			5/00	5	3	3
Min. electrical endurance, pf. 0.750.8			oper. cycles	6000	6000	6000	6000
Min. electrical endurance, pl. 0.r. 50.8			operations	20 000	20 000	20 000	16 000
ferminal lug kits			operations	Integral	Integral	LUG100	LUG200
Vire range			AWG	#18-8	#14-4	#14-2/0	#4-300MCN
5		Wire tightening	lb. in	#10-0 17	30/355	120	275
forque		Lug mounting	lb. in	Ir N/A	N/A	50	72
FECHNICAL DATA ACCORDING TO IEC 60947-3		Lug mounting	U. III	IN/A	IN/A	50	12
Rated insulation voltage	Pollution degree 3		V	1 000	1 000	1 000	1 000
0	Follation degree 5	EQ Us 1 min	-				10
Dielectric strength		50 Hz 1min.	kV kV	10 12	10	10	10
Rated impulse withstand voltage	In ener ein		A/W	32/3.5	63/7.5	160/12	200/17
	In open air						
nax. 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	mm²	6	16	70	95
Rated operational current, AC-23A		up to 500 V	Α	32	63	160	200
		690 V	A	32	63	160	200
Rated operational current, AC-23 ^{3]}	The kW-ratings are	230 V	kW	7.5	18.5	45	60
	accurate for three-phase 1500 R.P.M. standard asynchronous motors.	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	Α	256	504	1280	1600
		690 V	Α	256	504	1280	1600
Rated short-time withstand current, 1 s	r.m.svalue	690 V, 1 s	kA	1	2.5	5	8
Power loss / pole	With rated current, with	out fuse	W	2	4	9	8
Veight 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	1	Cu	mm ²	0.7510	2.525		
Terminal bolt size (included)	Metric thread diameter :		mm			M6x20	M8x25
Fuse-links bolts tightening torque		0	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 fuses 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

General Purpose Amp Rating	pf= 0.70.8	-5° to 40 °C	A	400	600	800	1200
Maximum Operating Voltage	pi= 0.10.0	-5 (640 C	VAC	600	600	600	600
			VDC	250	250	250	250
Max. horsepower rating / motor FLA current	pf= 0.40.5 Three	240 V	HP/A	125.0/312.0	200/480.0	250/602.0	250/602.0
Max. norsepower raung / motor FLA current	phase	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	500/330.0
	Single phase	120 V	HP/A	330.0/330.0	300/4/2.0	300/4/2.0	500/4/2.0
	Single phase	240 V	HP/A				
Short circuit rating with fuse, 3- and 4- pole types			kA	200	200	200	200
short circuit rating with tuse, 5- and 4- pole types	UL/CSA fuse size		A	400	600	800	1200
	UL/CSA fuse type		A	400 J	J	L	L
Endurances	0E/CSATUSE (gpe			5	5	L	
Min. electrical endurance, pf. 0.750.8			oper. cycles	1 000	1 000	500	500
Mill electrical endurance, pl. 0.r 50.8			operations	12 000	4 000	3 0 0 0	2 000
			operations	LUG400	4000 LUG800	LUG800	LUG1200
Ferminal lug kits Wire range			AWG	#2- 600MCM	(2)#2- 600MCM	(2)#2- 600MCM	(4)#2- 600MCM
Tauruna		Wing tighten in a	lb.in	375	500	500	500
forque		Wire tightening	lb.in	240	480	480	480
TECHNICAL DATA ACCORDING TO IEC 60947-3		Lug mounting	n.ai	240	480	480	480
Rated insulation voltage	Pollution degree 3		V	1 000	1 000	1 000	1 000
Dielectric strength	Tollution degree 5	50 Hz 1min.	kV	10	10	10	1000
Rated impulse withstand voltage		30 112 111111.	kV	12	10	12	10
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	400/43	570/50	720/55	1000/85
with minimum cable cross section	Inenciosure	Cu	mm ²	240	2x185	2x240	2x400
Rated operational current, AC-23A		up to 500 V	A	400	630	800	1000 *)
Nated operational current, AC-25A		690 V	A	400	630	800	1000 *1
Rated operational current, AC-23 ³	The kW-ratings are	230 V	kW	132	200	250	315 ^{*)}
Nated operational current, AC-25	accurate for three-phase 1500 R.P.M. standard asynchronous motors.	400 V	kW	220	355	450	560 *)
		415 V	kW	230	355	450	560 *)
		413 V 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
Rated breaking capacity in category AC-23		690 V	A	3200	6400	6400	8000
Rated short-time withstand current, 1 s	r.m.svalue	030 V	kA	14	20	20	0000
Power loss / pole	With rated current, with		W	30	46	75	75
Weight without accessories	3-pole switch fuses	54(1055	kg	5.7	11.5	11.5	29
melenc milliout accessories	3-pole switch fuses 4-pole switch fuses			J.I	11.3	11.3	LJ
Built-in terminal size	- Pole Switch Iuses	Cu	kg mm²				
Terminal bolt size (included)	Metric thread diameter >			M10x30	M12x40	M12x40	M12x50
Fuse-links bolts tightening torque	metric tireau tiameter)	viengui	mm Nm	20	40	40	40

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