UL 98 Non-Fusible

Disconnect Switches

DISCONNECT SWITCHES



Mersen's non-fusible disconnect switches are listed to UL 98 and bear the CE mark as conformance to IEC 60947-3. They are "service entrance" devices that are capable of fully rated load-break and load-make. All switches over 100A have windows to provide visual indication of the contact status. Engineered to have the smallest footprint, these switches also employ a modular design that enables the handle to be placed amongst the poles or at the ends.

A wide range of ergonomic handles and accessories is available to accommodate multiple applications.

CONFIGURATIONS:











Side operated

Catalog numb	Catalog number designation								
M Switch M = Mersen AC Switch	M 200 U 3 Number of Poles/Lef of handle I 1-3		3 Number of Poles/Left of handle I 1-3	Number of Poles/Right of handle Blank = < 200A	Revision	Special Configuration F = Flange- mount			
				non-fused, 0, 2, 3		Actuation DM = Door mounted			

^{*}Not all configurations are available.

RATINGS (UL):

- Volts: 600VAC
- Amps: 30A, 60A, 100A, 200A, 400A, 600A, 800A, 1200A
- Short-Circuit Current Rating (SCCR): Up to 200kA with fuses. Suitable as motor disconnect.

FEATURES/ BENEFITS:

- Service entrance rated
- Front or side operation
- Most compact size
- Internally mounted auxiliary contacts
- Flange mounting accessories
- Flexible mounting
- Adjustable shaft depth

APPROVALS:

- All UL switches meet the requirements of UL and CSA
- UL listed guide WHTY, File E191605 for UL 98 (ratings from 30 A to 1200 A)
- IEC 60947-3





*Not all configurations are available





Other cable lengths available: 48", 60", 72", 84", 96", 108". For example, CABLE108. **These switches have not been tested to conform to UL standards



Part Number				мзоиз	меоиз	M100U3	M200Uxx	
			1.					
General Purpose Amp Rating	pf= 0.70.8	-40° to 40 °C	A	30	60	100	200	
Maximum Operating Voltage			V	600	600	600	600	
Max. horsepower rating / motor FLA	pf= 0.40.5 Three	240 V	HP/A	10/28.0	20/54.0	30/80.0	75/192.0	
current	phase	480 V	HP/A	20/27.0	40/52.0	50/65.0	150/180.0	
		600 V	HP/A	30/32.0	40/41.0	50/52.0	200/192.0	
	Single phase	120 V	HP/A	2/24.0	3/34.0	5/56.0		
	M : 6 :	240 V	HP/A	5/28.0	7.5/40.0	15/68.0	200	100
Short circuit rating with fuse	Maximum fuse size	66	A	60	150	150	200	400
	Fuse type	CC	kA	F0		F0	200	CE
	Fuse type	J	kA	50	50	50	200	65
	Fuse type	-	kA	50	50	50		
	Fuse type	RK1	kA					
	Fuse type	RK5	kA					
	Fuse type	L	kA					
	Fuse type	Н	kA					
Maximum General Use, DC Ratings								
Current rating		at 250 VDC	A				200	
	<u> </u>	at 600 VDC	A				100	
DC horsepower rating for 4-pole switch		at 600 VDC	HP				50	
DC horsepower rating for 2-pole switch	In open air	at 125 VDC	HP				20	
	In enclosure ^{2]}	at 250 VDC	HP				-	
DC short circuit rating for 4-pole switch	with circuit breaker		kA				10	
DC short circuit rating for 2-pole	with circuit breaker at 2	50 VDC	kA				14	
switch	with circuit breaker at 6	00 VDC	kA				10	
	with class J fuse at 250	vith class J fuse at 250 VDC					100	
	with fuse size		Α				200	
endurances								
Min. electrical endurance, pf. 0.750.8	8		oper. cycles	6 000	6 000	6 000	6 000	
Mechanical endurance			operations	20 000	20 000	20 000	20 000	
Terminal lug kits				Integral	Integral	Integral	LUG-200	
Wire range			AWG	14-4	14-4	8-1/0	4-300MCM	
Torque		Wire tightening	lb. in	55	55	55	275	
'		Lug mounting					72	
TECHNICAL DATA ACCORDING TO IEC 6	0947-3							
Rated insulation voltage and rated operation		Pollution degree 3	V	750	750	750	1 000	
Dielectric strength	Tal Voltage NeEd/ BeEd	50 Hz 1min.	kV	6	6	6	10	
Rated impulse withstand voltage		30 112 1111111.	kV	8	8	8	12	
		up to 415 V	A	40	63	100	250	
Rated operational current, AC-22A		440500 V	A	40	63	100	250	
		690 V	A	40	63	100	250	
Detection and the control of the con		up to 415 V	A	40	63	80	250	
Rated operational current, AC-23A		440 V	A	40	63	65	250	
			A	40	63	60	250	
		500 V	A	40	63	40	250	
Rated conditional short-circuit	1 (4 45 0)	690 V					250	
current I_ (r.m.s.) and corresponding	I [r.m.s.]	50 kA	kA	16.5	16.5	16.5		
max. allowed cut-off current î. The cut-off	Max. fuse size gG/aM	415 V	A	125/125	125/125	125/125		
current î refers to values listed by fuse	I (r.m.s.)	10 kA	kA	8.2	8.2	8.2		
manufacturers	Max. fuse size gG/aM	690 V	A	125/100	125/100	125/100	25	
	l (r.m.s.)	50 kA	kA	10	10	10	35	-
(single phase test acc. to IEC60269)	Max. fuse size gG/aM	690 V	A	63/63	63/63	63/63	355/315	
. 3 .	at prospective SC-current	80 kA	kA				40.5	
	Max. fuse size gG/aM	690 V	A				355/315	
	r.m.svalue l	690 V, 1 s	kA	2.5	2.5	2.5	8	
	CW		Α	3.6	3.6	3.6	30	
Rated short circuit making capacity	Peak value I	690 V/500 V			1 4 6	1.0	1	1
Rated short circuit making capacity	CW		W	0.7	1.6	4.0	6.5	
Rated short circuit making capacity Power loss / pole	Peak value I	rent		0.7 20 000	20 000	20 000	20 000	
Rated short-time withstand current Rated short circuit making capacity Power loss / pole Mechanical endurance Weight without accessories	Peak value I em At rated operational curr	rent	W					

Part Number				M400U	M600U	M800U	M1200U
General Purpose Amp Rating	pf= 0.70.8	-40° to 40 °C	A	400	600	800	1200
Maximum Operating Voltage	pi = 0.ir0.0	10 10 0	V	600	600	600	600
Maximum operating voltage	pf= 0.40.5 Three phase	240 V	HP/A	125/312.0	200/480.0	200/602	200/602
		480 V	HP/A	250/302.0	450/515.0	500/590	500/590
Max. horsepower rating / motor FLA current		600 V	HP/A	350/338.0	500/472.0	500/472	500/472
Max. Horsepower rading/ Hotor I Ex editerit		120 V	HP/A	330/330.0	300/ 4/ 2.0	300/ HI L	300/412
	Single phase	240 V	HP/A				
	Maximum fuse size	2.00	A	600	600 800	800	1200
	Fuse type	СС	kA				
	Fuse type	J	kA	100	100		
	Fuse type	Т	kA		100		
Short circuit rating with fuse	Fuse type	RK1	kA				
	Fuse type	RK5	kA		100	100	100
	Fuse type	L	kA				
	Fuse type	Н	kA				
Maximum General Use, DC Ratings	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						'
Tanaman Control Coop So Hadings		at 250 VDC	А	400	600		
Current rating		at 600 VDC	A	200	200		
DC horsepower rating for 4-pole switch		at 600 VDC	HP	50	-		
	In open air	at 125 VDC	HP	40	-		
DC horsepower rating for 2-pole switch	In enclosure ²⁾	at 250 VDC	HP	50	50		
DC short circuit rating for 4-pole switch	with circuit breaker	ut L30 VDC	kA	10	10		
8-8-1	with circuit breaker at 2	250 VDC	kA	14	18		
	with circuit breaker at 6		kA	10	10		
DC short circuit rating for 2-pole switch	with class J fuse at 250		kA	100	100		
	with fuse size		A	400	500		
Endurances							
Min. electrical endurance, pf. 0.750.8			oper. cycles	1 000	1 000	500	500
Mechanical endurance			operations	16 000	10 000	6000	6000
Terminal lug kits			operations	LUG400	LUG800	LUG800	LUG1200
Wire range			AWG	2 - 600MCM	2 x 2 - 600MCM	2 x 2 - 600MCM	4 x 2 - 600M
Torque		Wire tightening	lb. in	375	55	500	500
Torque		Lug mounting	10.111	240	480	480	450-670
TECHNICAL DATA ACCORDING TO IEC 60947-3		Luginounting		L-10	1400	100	430 010
Rated insulation voltage and rated operational voltage	10 VC3U/DC3U	Pollution degree 3	V	1 000	1 000	1 000	1 000
	E ACZU/DCZU	50 Hz 1min.	kV	10	10	10	1000
Dielectric strength Rated impulse withstand voltage		SU HZ IIIIII.	kV	12	12	12	12
nateu impuise wittistanu voitage		up to 415 V	A	400	800	1600	1600
Rated operational current, AC-22A		440500 V	A	400	800	1600	1600
nated operational current, AC-2.2A		690 V	A	400	800	1600	1600
		up to 415 V	A	400	800	1250	1250
		440 V	A	400	800	1250	1250
Rated operational current, AC-23A		500 V	A	400	800	1250	1250
		690 V	A	400	800	1250	1250
	I_ (r.m.s.)		kA	400	000	TCOU	TCOU
Rated conditional short-circuit	Max. fuse size gG/aM	50 kA 415 V	A				
current I _p (r.m.s.) and corresponding max, allowed cut-off current î _p refers to	I (r.m.s.)		kA				
values listed by fuse manufacturers	P .	50 kA	A				
J	Max. fuse size gG/aM	690 V		50.5	71.5		
	I (r.m.s.) Max. fuse size gG/aM	50 kA	kA ^		800/1 000		
(single phase test acc. to IEC60269)		690 V	A	500/500			
	at prospective SC-current	80 kA	kA	59	83.5		
Date if the set time a soleth star of	Max. fuse size gG/aM	690 V	A	500/500	800/1 000	F0	F0
Rated short-time withstand current	r.m.svalue l	690 V, 1 s	kA	15	20	50	50
Rated short circuit making capacity	Peak value I	690 V/500 V	A	65	80	110	110
Power loss / pole	At rated operational cur		W	10	40	29	48
M. L. C. L. L.	Diril I de d						t and the second
	Divide by two for operat		Oper.	26 000	10 000	45.0	45.5
Mechanical endurance Weight without accessories	Divide by two for operat	3-pole 4-pole	kg kg	2.5 000	5.2	15.2	15.2

¹⁾ UL Listed switches are also CSA Approved. 2) Fuse size 70A for RK5.