

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			kA	200	200	200	200
	UL/CSA fuse size		A	400	600	800	1200
	UL/CSA fuse type			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				LUG400	LUG800	LUG800	LUG1200
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 ³⁾
		690 V	A	400	630	800	1000 ³⁾
Rated operational power, AC-23 ³⁾	The kW-ratings are accurate for three-phase 1500 R.P.M. standard asynchronous motors.	230 V	kW	132	200	250	315 ³⁾
		400 V	kW	220	355	450	560 ³⁾
		415 V	kW	230	355	450	560 ³⁾
		500 V	kW	280	450	560	710 ³⁾
		690 V	kW	400	630	710	1000 ³⁾
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 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