

Fusible disconnect switches, UL/CSA

Technical data for OS400...1200

	OS400	OS600	OS800	OS1200
Approvals ¹⁾	UL98, IEC 2 pole	UL98, IEC 2 pole	UL98, IEC 2 pole	UL98, IEC 2 pole
	UL98, IEC 3 pole	UL98, IEC 3 pole	UL98, IEC 3 pole	UL98, IEC 3 pole
	UL98, IEC 4 pole	UL98, IEC 4 pole	UL98, IEC 4 pole	UL98, IEC 4 pole

Technical data according to UL/CSA

General purpose amp rating	pf= 0.7...0.8	up to 40°C	400 A	600 A	800 A	1200 A
Max. operating voltage			600 VAC	600 VAC	600 VAC	600 VAC
			250 VDC	250 VDC	250 VDC	250 VDC
Max. horsepower rating/ motor FLA current	pf= 0.4...0.5 Three phase	240 V	125.0 HP/312.0 A	200 HP/480.0 A	250 HP/602.0 A	
		480 V	250.0 HP/302.0 A	400 HP/477.0 A	500 HP/590.0 A	
		600 V	350.0 HP/336.0 A	500 HP/472.0 A	500 HP/472.0 A	
	Single phase	120 V				
		240 V				
Short circuit rating with fuse, 3 and 4-pole types	UL/CSA fuse size		200 kA	200 kA	200 kA	200 kA
	UL/CSA fuse type		400 A	600 A	800 A	1200 A
				J	J	L
Min. electrical endurance	pf= 0.75...0.8	operation cycles	1000	1000	500	500
Terminal lug kits			OZXA-400	OZXA-800	OZXA-800	OZXA-1200
Wire range			#2-600MCM	(2)#2-600MCM	(2)#2-600MCM	(4)#2-600MCM
Torque	Wire tightening		375 lb.in	500 lb.in	500 lb.in	500 lb.in
	Lug mounting		240 lb.in	480 lb.in	480 lb.in	480 lb.in

Technical data according to IEC 60947-3

Rated insulation voltage	Pollution degree 3	50 Hz 1min.	1 000 V	1 000 V	1 000 V	1 000 V
Dielectric strength			10 kV	10 kV	10 kV	10 kV
Rated impulse withstand voltage			12 kV	12 kV	12 kV	12 kV
Rated thermal current in ambient 40 °C / max. fuse power dissipation ¹⁾ ...with minimum cable cross section	In open air		400 A/45 W	630 A/60 W	800 A/65 W	1250 A/110 W
	In enclosure		400 A/30 W	570 A/50 W	720 A/55 W	1000 A/85 W
		Cu	240 mm ²	2x185 mm ²	2x240 mm ²	2x400 mm ²
Derating, mounting on wall horizontal fuses	In open air or ventilated enclosure		0 %	0 %	4 %	4 %
	Totally enclosed		5 %	5 %	8 %	8 %
Derating, mounting on ceiling			10 %	10 %	10 %	10 %
Derating at 60 °C	In open air / in enclosure		20/20 %	20/20 %	20/20 %	20/20 %
Power loss / pole	With rated current, without fuse		30 W	46 W	75 W	75 W
Rated operational current AC-23A		Up to 500 V	400 A	630 A	800 A	1000 A ³⁾
		690 V	400 A	630 A	800 A	1000 A ³⁾
Rated operational power AC-23 ²⁾	The kW-ratings are accurate for three-phase 1500 R.P.M standard asynchronous motors.	230 V	132 kW	200 kW	250 kW	315 kW ³⁾
		400 V	220 kW	355 kW	450 kW	560 kW ³⁾
		415 V	230 kW	355 kW	450 kW	560 kW ³⁾
		500 V	280 kW	450 kW	560 kW	710 kW ³⁾
		690 V	400 kW	630 kW	710 kW	1000 kW ³⁾
Rated breaking capacity in category AC-23		up to 500 V	3200 A	6400 A	6400 A	8000 A
		690 V	3200 A	6400 A	6400 A	8000 A
Rated short-time withstand current, 1s.	r.m.s. -value		14 kA	20 kA	20 kA	
Built-in terminal size		Cu				
Fuse-links bolts tightening torque			20 Nm	40 Nm	40 Nm	40 Nm

¹⁾ UL listed disconnects are also listed under CSA requirements.

²⁾ Acc. to IEC 60947-1, § 6.1.1. Minimum ambient temperature -5°C. Category B: -5°C...-35°C.

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

³⁾ Utilization category B.