

Fusible disconnect switches, UL/CSA

Technical data for OS30...200

	OS Mini 30	OS_60G	OS_100G	OS_200
Approvals ¹⁾	-	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	30 A	60 A	100 A	200 A
Max. operating voltage			600 VAC	600 VAC	600 VAC	600 VAC
				250 VDC	250 VDC	250 VDC
Max. horsepower rating/ motor FLA current	pf= 0.4...0.5 Three phase	240 V	7.5 HP/22.0 A	15 HP/42.0 A	30 HP/80.0 A	60 HP/154.0 A
		480 V	15 HP/21.0 A	30 HP/40.0 A	60 HP/77.0 A	125 HP/156.0 A
		600 V	20 HP/22.0 A	50 HP/52.0 A	75 HP/77.0 A	150 HP/144.0 A
	Single phase	120 V	2 HP/24.0 A			
		240 V	3 HP/17.0 A			
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		30 A	60 A	100 A	200 A
			J/CC	J	J	J
Min. electrical endurance	pf= 0.75...0.8	operation cycles	6 000	6 000	6 000	6 000
Terminal lug kits			Integral	Integral	OZXA-24	OZXA-200
Wire range			#18-8 AWG	#14-4 AWG	#14-2/0 AWG	#4-300 MCM
Torque	Wire tightening		17 lb.in	30/35 lb.in ³⁾	120 lb.in	200 lb.in
	Lug mounting		N/A	N/A	50 lb.in	72 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
Rated thermal current in ambient 40 °C / max. fuse power dissipation ¹⁾ ...with minimum cable cross section	In open air		32 A/3.5 W	63 A/7.5 W	160 A/12 W	200 A/17 W
	In enclosure		32 A/33.5 W	63 A/7.5 W	160 A/10,135 A/12 W	200 A/15 W
		Cu	6 mm ²	16 mm ²	70 mm ²	95 mm ²
Derating, mounting on wall horizontal fuses	In open air or ventilated enclosure		0 %	0 %	0 %	0 %
	Totally enclosed		5 %	5 %	5 %	5 %
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		2 W	4 W	9 W	8 W
Rated operational current AC-23A		Up to 500 V	32 A	63 A	160 A	200 A
		690 V	32 A	63 A	160 A	200 A
Rated operational power AC-23 ²⁾	The kW-ratings are accurate for three-phase 1500 R.P.M standard asynchronous motors.	230 V	7.5 kW	18.5 kW	45 kW	60 kW
		400 V	15 kW	30 kW	75 kW	110 kW
		415 V	15 kW	30 kW	75 kW	110 kW
		500 V	18.5 kW	37 kW	90 kW	132 kW
		690 V	22 kW	55 kW	132 kW	200 kW
Rated breaking capacity in category AC-23		up to 500 V	256 A	504 A	1280 A	1600 A
		690 V	256 A	504 A	1280 A	1600 A
Rated short-time withstand current, 1s.	r.m.s. -value		1 kA	2.5 kA	5 kA	8 kA
Built-in terminal size		Cu	0.75...10 mm ²	2.5...25 mm ²		
Fuse-links bolts tightening torque					4 Nm	4 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⁾ 30 lb.in with cable size #14-10, 35 lb.in with cable size #8-4.tw