

Control Unit: Technical Specifications

	440F-C251P Surface Mount	440F-C251D DIN Rail	440F-C252D DIN Rail
Conformity	EN 13849 Pld, Cat. 3, EN ISO 13856-2: 2013		
System response time	13 mS		
Environmental protection	IP65	Enclosure IP40 DIN0470 Terminals IP20 DIN0470	Enclosure IP40 DIN0470 Terminals IP20 DIN0470
Max. Safedge profile voltage	12V DC (open circuit)		
Nominal operating voltage	4V (run condition)		
Max. output fuse	2 A quick acting		5 A quick acting
Impulse withstand voltage	2500V		
Over voltage	Category 2		
Contamination level	III		
Min. switched current/voltage	10 mA/10V		
Power consumption	<6 VA		
Relay outputs	2 x independent volt free N.O. safety contacts 1 x volt free N.C. auxiliary contact NOTE: Auxiliary should not be used for safety.		1 x independent volt free N.O. safety contacts 1 x volt free N.C. auxiliary contact NOTE: Auxiliary should not be used for safety.
Utilization category	AC - 15; 2A / 250V DC DC - 13; 2A / 30V DC		
Safety inputs	Safedge profile (open resistance 6 K Ω)		
Indication LED 1	Green: RUN		
LED 2	Yellow: OPEN		
LED 3	Red: STOP		
Internal controls	AC voltage selector		
Internal fuses	2 A safety fuses, replaceable (2 off); 500 mA supply fuse, replaceable (1 off)	500 mA supply fuse, (reset ability) (1 off)	
Max. output fuse	N/A		4 A on AC/2 A on DC
Ambient temp. range—control unit	-10...55°C (-14...131°F)		
Ambient temp. ranges—profile	-5...55°C (23...131°F) EPDM (Ethylene Propylene Diene Modified Rubber) excluding 110N & 01610N: 0...55°C (32...131°F) NBR/CR (Acrylonitrile (34% nitrile) Butadiene Rubber/Chloroprene Rubber)		
Humidity	Up to 90% RH at + 55°C (131°F).		
Vibration	Tested in accordance with IEC 68-2-6, frequency range 10...55 Hz, displacement 0.15 mm, 10 cycles per axis, sweep rate 1 octave per minute		
MC-MC contactor monitor loop	N/C (normally-closed) contactor loop		
Max. conductor size	1 x 1 sq. mm (0.001 sq in.) stranded with sleeves stripped 5 mm (0.2 in.), 1 x 1.5 sq. mm (0.002 sq in.) solid conductor		1 x 2.5 sq. mm (0.004 sq in.) stranded with sleeves stripped 8 mm (0.31 in.), 1 x 4 sq. mm (0.006 sq in.) solid conductor
Terminals	Minus terminal screws M2 spring action		Plus-minus terminal screws M3.5 with self lifting connection, washer terminal boards separately removable
Installation group	C in accordance with VDE 0110.		
Material—control unit	Polycarbonate		
Mounting details	4 x M4 holes	45 mm DIN rail	22.5 mm DIN rail
Housing	D=75 mm, H=130 mm, W=130 mm (respectively: 2.95 x 5.12 x 5.12 in.)		D=120 mm, H=73 mm, W= 45.5mm (respectively: 4.72 x 2.87 x 1.79 in.), 16 way
Weight	650 g (22.9 oz avdp)		450 g (14.1 oz avdp)
Miscellaneous	The Safedge profile must be terminated with a 6 K Ω resistor.		
Bend radius, minimum	500 mm (19.8 in.)		