

Item	S280UC-K		S200P-Z		S280UC-Z		S290-C	
Approvals:								
UL	1077		1077		1077		—	
CSA	—		—		—		—	
VDE	0660		0660		0660		0660	
IEC	898,947		898, 947		898, 947		898	
No. of poles:	1,2,3		1,2,3,4		1,2,3		1,2,3,4	
Tripping characteristic:	K		Z		Z		C	
Rated currents:	0.2 to 63A		0.5 to 63A		0.5 to 63A		80 to 125A	
Minimum operating voltage:	12V		12V		12V		12V	
UL/CSA rated voltage & interrupting capacity	Single pole	Multi pole	Single pole	Multi pole	Single pole	Multi pole		
120VAC	10kA	—	10kA	—	10kA	—	—	
240VAC	10kA	10kA	10kA	10kA	10kA	10kA	—	
277VAC	10kA	—	10kA	—	10kA	—	—	
277/480 VAC	—	4.5kA for 0.2-40A 5kA for 50-63A	—	10kA	—	4.5kA for 0.2-40A 5kA for 50-63A	—	
60VDC	10kA	10kA	—	—	10kA	10kA	—	
125VDC	10kA	10kA	—	—	10kA	10kA	—	
250VDC	4.5kA	4.5kA	—	—	4.5kA	4.5kA	—	
500VDC	—	4.5kA	—	—	—	4.5kA	—	
Frequency:	50/60Hz (see below)		50/60 Hz (see below)		50/60Hz (see below)		50/60Hz (see below)	
Rated voltage								
IEC single pole	240/415VAC 220VDC		240/415VAC 60VDC		240/415VAC 220VDC		230/440VAC 60VDC	
IEC multi-pole	415VAC 440VDC		415VAC 110VDC		415VAC 440VDC		440VAC 110VDC	
Protection category:	IP20		IP20		IP20		IP20	
Depth of unit per DIN 43880:	68mm		68mm		68mm		70mm	
Mounting position:	optional		optional		optional		optional	
Standard mounting:	35mm DIN rail		35mm DIN rail		35mm DIN-rail		35mm DIN-rail	
Main and shunt trip terminals:								
Wire size	0.2-40A 50A & above	18-4 AWG 18-2 AWG	18-4 AWG		0.5-40A 18-2 AWG	18-4 AWG	80-125A	14-1/0 AWG
Torque	17.5 in-lbs.		17.5 in-lbs.		17.5 in-lbs.		17.5 in-lbs.	
Tool	#2 Posidrive		#2 Posidrive		#2 Posidrive		#2 Posidrive	
Accessory terminals								
Wire size	18-16 AWG		18-16 AWG		18-16 AWG		18-16 AWG	
Torque	4.5 in-lbs.		4.5 in-lbs.		4.5 in-lbs.		4.5 in-lbs.	
Tool	#1 Posidrive		#1 Posidrive		#1 Posidrive		#1 Posidrive	
Service life at rated load:	$I_n < 32$ A, 20,000 operations $I_n > 32$ A, 10,000 operations		$I_n < 32$ A, 20,000 operations $I_n > 32$ A, 10,000 operations		$I_n < 32$ A, 20,000 operations $I_n > 32$ A, 10,000 operations		10,000 operations —	
Ambient temperatures:	-25°C to +55°C		-25°C to +70°C		-25°C to +55°C		-5°C to +45°C	
Storage temperatures	-40°C to +70°C		-40°C to +70°C		-40°C to +70°C		-40°C to +70°C	
Shock resistance:	30g minimum of 2 impacts, shock duration of 13ms		30g minimum of 2 impacts, shock duration of 13ms		30g minimum of 2 impacts, shock duration of 13ms		30g minimum of 2 impacts, shock duration of 13ms	
Vibration resistance:	5g, 20 cycles, 5 Hz, 150 Hz @ 0.8 ~ I_n		5g, 20 cycles, 5 Hz, 150 Hz @ 0.8 ~ I_n		5g, 20 cycles, 5 Hz, 150 Hz @ 0.8 ~ I_n		60m/s ² , at 10 – 150 Hz	

Influence of frequency on electro-magnetic trips

Magnetic trip values shown on trip curves are valid for 50/60Hz applications. For frequencies other than 50/60Hz, the magnetic (instantaneous) trip values are increased by the factor given below:

	16 2/3 - 60Hz	100Hz	200Hz	400Hz	DC
Approx. factor	1	1.1	1.2	1.5	1.5

Thermal tripping is independent of frequency.