Technical data S260, S270, & S280

Item	S260-B	S270-K	S280-K	S280UC-K
Approvals:				
UL	1077	1077	1077	1077
CSA	C22.2 - No.235	C22.2 - No. 235	C22.2 - No. 235	C22.2 - No. 235
VDE	0641, 0660	0660	0660	0660
IEC	898, 947	898, 947	898, 947	898, 947
No.of poles:	1,2,3,4 1+N,3+N	1,2,3,4, 1+N,3+N	1,2,3,4,1+N,3+N	1,2,3
Tripping characteristic:	B	K	K	K
Rated currents:	6 to 63A	0.5 to 63A	0.2 to 63A	0.2 to 63A
Rated voltage:				
UL/CSA single pole	277VAC	277VAC, 60VDC	277VAC	277VAC, 250VDC
UL/CSA multi pole	480VAC / 125VDC	480VAC, 125VDC	480VAC	480VAC, 500VDC
IEC single pole	240/415VAC 60VDC	240/415VAC 60VDC	240/415VAC 60VDC	240/415VAC 220VDC
IEC multi-pole	415VAC 110VDC	415VAC 110VDC	415VAC 110VDC	415VAC 440VDC
Minimum operating voltage:	12V	12V	12V	12V
Rated interrupting capacity:	10 kA IC at up to 240VAC 6kA IC at 480VAC (6 to 32A) 5kA IC at 480VAC (40 to 63A)	10 kA IC at up to 240VAC/125VDC 6kA IC at 480VAC (0.5 to 32A) 5kA IC at 480VAC (40 to 63A)	Up to 32A - 10kA IC at 277/480VAC 40-63A - 6kA IC at 480VAC	Up to 32A - 6 kA IC at 277/480VAC 4.5kA IC at 250/500VDC 40-63A - 6kA IC at 480VAC
Frequency:	50/60Hz (See pg. 1.22)	50/60Hz (see pg. 1.22)	50/60Hz (see pg.1.22)	50/60Hz (see pg.1.22)
Protection category:	IP20	IP20	IP20	IP20
Depth of unit per DIN 43880:	68mm	68mm	68mm	68mm
Mounting position:	optional	optional	optional	optional
Standard mounting:	35mm DIN rail	35mm DIN rail	35mm DIN rail	35mm DIN rail
Terminals:	Conductors from 18-4AWG (0.75-25sq mm)	Conductors from 18-4AWG (0.75-25sq mm)	Conductors from 18-4AWG (0.75-25sq mm)	Conductors from 18-4AWG (0.75-25sq mm)
	50A and above Conductors from 18-2AWG (0.75-35sq mm)	50A and above Conductors from 18-2AWG (0.75-35sq mm)	50A and above Conductors from 18-2AWG (0.75-35sq mm)	50A and above Conductors from 18-2AWG (0.75-35sq mm)
Service life at rated load:	20,000 operations	20,000 operations	20,000 operations	20,000 operations
Ambient temperatures:	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C
Shock resistance:	10g minimum of 20 impacts, shock duration of 13ms	10g minimum of 20 impacts, shock duration of 13ms	10g minimum of 20 impacts, shock duration of 13ms	10g minimum of 20 impacts, shock duration of 13ms
Vibration resistance:	5g, minimum of 30 minutes	5g, minimum of 30 minutes	5g, minimum of 30 minutes	5g, minimum of 30 minutes
Disconnecting neutral rating:	6kA switching	6kA switching	—	—

MCBs are approved per IEC-898 and VDE 0641, and certified under IEC-947 and VDE 0660 standards for use in systems rated 415VAC or 690VAC (S500 series).

MCBs can be applied to 50Hz – 400Hz and DC power systems.

Special direct current version MCBs include a permanent magnet for DC fault current interruption. These "UC" versions are rated 250/500VDC under UL1077/CSA 22.2 No. 235.

Continuous current ratings are as low as 0.2 amperes and up to 125 amperes maximum.

MCBs are of compact size and can be quickly mounted on standard 35mm DIN rail or can be front mounted by use of a front mounting kit.

MCB breakers include line and load side terminals for conductors from 18 through 4AWG (0.75 – 25mm²) for 40 amperes; up to 2AWG for 50 and 63 amperes.

MCBs can also be connected via busbar conductors which can be either upper or lower mounted. Dual function terminals allow busbars to be connected with main incoming line conductors without separate lugs.

Accessories

Auxiliary devices that can be added to S260, S270 and S280 series MCBs include:

- Shunt trips
- Auxiliary contacts
- Trip contacts
- Aux/trip contacts
- Undervoltage release

Accessory device modules can be field mounted to all above listed ABB MCBs. Auxiliary contacts are also available for the S500 series MCB.

Applications

MCBs can be used for equipment protection, in commercial appliances, protection of control circuits against overcurrent faults, computer equipment and other computer peripheral devices.

UL 1077

MCBs are recognized as supplementary protectors and are intended for use as overcurrent protection within an appliance or other electrical equipment where branch circuit overcurrent protection is already provided or not required. MCBs and accessories are recognized under UL File E76126.

CSA C22.2

MCBs and accessories are certified under CSA C22.2 No. 235 per File LR98793.