MHN725

MCB 1P+N 4.5kA B-25A 1M

Technical properties

Architecture

Neutral position	left
Number of protected poles	1
Number of poles	2 P

Functions

Concurrently switching N-neutral	Yes

Configuration

Number of modules	1

Connectivity

Top connection alignement for modular devices	Shifted terminal
Bottom connection alignement for modular devices	Shifted terminal

Main electrical features

Rated short circuit breaking capacity Icn AC according IEC60898-1	4.5 kA
Rated operational voltage Ue	230 / 240 V
Type of supply voltage	AC
Frequency	50/60 Hz

Voltage

Rated insulation voltage	500 V
Max operating voltage	253 V
Rated impulse withstand voltage	4000 V

Electric current

Rated current	25 A
Rated service breaking capacity Ics AC according IEC 60898-1	4.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	3 / 5 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	4.5 kA

Electric current / temperature

Rating current -25°C	32 A
Rating current -20°C	31.5 A
Rating current -15°C	30.9 A

Rating current -10°C	30.3 A
Rating current -5°C	29.7 A
Rating current 0°C	29 A
Rating current 5°C	28.4 A
Rating current 10°C	27.8 A
Rating current 15°C	27.1 A
Rating current 20°C	26.4 A
Rating current 25°C	25.7 A
Rating current 30°C	25 A
Rating current 35°C	24.3 A
Rating current 40°C	23.5 A
Rating current 45°C	22.7 A
Rating current 50°C	21.9 A
Rating current 55°C	21.1 A
Rating current 60°C	20.2 A
Rating current 65°C	19.2 A
Rating current 70°C	18.3 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	1

Dimensions

Depth of installed product	70 mm
Height of installed product	84.7 mm
Width of installed product	17.5 mm

Frequency

Frequency	50 to 60 Hz

Power

Total power loss under IN	5.8 W
Power loss per pole at In	4.1 W

Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	20000

Installation, mounting

Type of top connection for modular devices	with screw
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	metallic
Type of Bottom Connection for modular devices	with screw
Top removability for modular devices	Yes
Bottom removability for modular devices	No
Suitable for flush-mounting	Yes

Connection

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm²
Connection cross-section at output with screw, for massive conductor	1 / 25 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm²
Connection cross-section of input and output with screws, for massive conductors	1 / 25 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 16 mm²

Standards

Standard text	EN 60898-1
European directive WEEE	not concerned

Safety

Protection index IP	IP20
REACH conform	No
RoHS conform	Yes
Halogen free	No

Use conditions

Operating temperature	-25…70 °C
Class of energy limitation I²t	3
Altitude	2000 m
Storage/transport temperature	-25…80 °C