



MHN740

## MCB 1P+N 4.5kA B-40A 1M

Product Datasheet

### Architecture

Neutral position	left
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	B

### Functions

Concurrently switching N-neutral	yes
----------------------------------	-----

### Connectivity

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

### Main electrical features

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	4,5 kA
Rated operational voltage $U_e$	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	40 A
Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1	4,5 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 $I_n$
Magnetic regulating current	3 / 5 $I_n$
Rated short circuit breaking capacity $I_{cn}$ under 230V AC according IEC60898-1	4,5 kA

**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

**Frequency**

Frequency	50 to 60 Hz
-----------	-------------

**Power**

Total power loss under I <sub>N</sub>	7,1 W
Power loss per pole at I <sub>n</sub>	4,6 W

**Endurance**

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

**Dimensions**

Depth of installed product	70 mm
Height of installed product	84,7 mm
Width of installed product	17,5 mm

**Installation, mounting**

Type of top connection for modular devices	with screw
Tightening torque	1,9Nm
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
360° product mounting position	yes

### Connection

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 25 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm <sup>2</sup>
Connection cross-section of input and output with screws, for massive conductors	1 / 25 mm <sup>2</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 16 mm <sup>2</sup>
Type of connection	with screw

### Standards

Standard text	EN 60898-1
European directive WEEE	concerned

### Safety

Protection index IP	IP20
---------------------	------

### Use conditions

Operating temperature	-25...70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-25...80 °C