



## MCB 1P+N 6kA C-40A 1M

## **Technical characteristics**

Arc	hite	ctur	·e	

Neutral position	left
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	С
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	6 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	40 A
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	5 / 10 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA

## **Current correction factors**

devices placed side-by-side 0.9.5  Correction factor of rating current for 4 and 5 devices placed side-by-side 0.8.5  Correction factor of rating current for 6 devices placed side-by-side 0.8.5  Correction factor of magnetic tripping with 100 Hz 1.1  Correction factor of magnetic tripping with 100 Hz 1.1  Correction factor of magnetic tripping with 100 Hz 1.1  Correction factor of magnetic tripping with 100 Hz 1.1  Correction factor of magnetic tripping with 100 Hz 1.1  Correction factor of magnetic tripping with 100 Hz 1.1  Correction factor of magnetic tripping with 100 Hz 1.1  Dimensions  Depth of installed product 70 mm 11  Height of installed product 84.7 mm 11  Width of installed product 84.7 mm 11  Frequency 50 to 60 Hz 17.5 mm 11  Frequ	Correction factor of rating current for 2 devices placed side-by-side	1
5 devices placed side-by-side 0.55 Correction factor of rating current for 6 devices placed side-by-side 0.85 Correction factor of magnetic tripping with 100 Hz 1.5 Correction factor of magnetic tripping with 200 Hz 1.5 Correction factor of magnetic tripping with 400 Hz 1.5 Correction factor of magnetic tripping with 400 Hz 1.5 Correction factor of magnetic tripping with 600 Hz 1.5  Dimensions  Depth of installed product 70 mm Width of installed product 84.7 mm Width of installed product 84.7 mm Width of installed product 17.5 mm  Frequency 50 to 60 Hz  Power  Total power loss under IN 7.1 W Power loss per pole at In 4.6 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 11.9 Nm Type of top rail clip for modular devices metallic isolated velices with screw 15.0 per power 15.0 Nm Suitable for flush-mounting Yes Connection cross-section at output with screw, for flexible conductor 1,75 mm Connection cross-section of the access with screw, for flexible conductor 1,75 mm Connection cross-section of the access with screw, for flexible conductor 1,75 mm Connection cross-section of the access with screws, with escrew connection cross-section of the access with screws, with escrews connection of on flexible conductor 1,75 mm Connection cross-section of the access with screws, with escrews conductor 1,75 mm Connection cross-section of the access with screws, with escrews conductor 1,75 mm Connection cross-section of the access with screws, with escrews conductor 1,75 mm Connection cross-section of the access with screws, with escrews conductor 1,75 mm	Correction factor of rating current for 3 devices placed side-by-side	0.95
devices placed side-by-side Correction factor of magnetic tripping with 100 Hz Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 60 Hz Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product Height of installed product Width of installed product Height of installed product Width of installed product Frequency Freq	Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 60 Hz Correction factor of magnetic fripping with	Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 400 Hz 1.5  Correction factor of magnetic tripping with 60 Hz 1.5  Dimensions  Depth of installed product 70 mm Helght of installed product 84.7 mm Width of installed product 17.5 mm  Frequency  Frequency  Frequency 50 to 60 Hz  Power  Total power loss under IN 7.1 M Power loss per pole at In 4.6 M  Endurance  Electric endurance in number of cycles 1000 Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw 719pe of Bottom rail clip for modular devices metallic isolated 719pe of Bottom rail clip for modular devices with screw 72pe of Bottom rail clip for modular devices with screw 72pe of Bottom Connection for modular devices 72pe of Bottom removability for modular devices 80ttom removability for modular devices 90ttom removabilit		1.1
Dimensions  Depth of installed product 70 mm Height of installed product 84.7 mm Width of installed product 17.5 mm  Frequency 50 to 60 Hz  Power Total power loss under IN 7.1 M Power loss per pole at In 4.6 M  Endurance Electric endurance in number of cycles 1000 Number of mechanical operations 2000  Installation, mounting Type of top connection for modular devices with screw 50 to bottom rail clip for modular devices metallic isolated views 50 to for modular devices 70 per powerblithy for modular devices 80 to pre powerblithy for modular devices 90 to promovability for modular devices 90 to promov		1.2
Dimensions  Depth of installed product 70 mm Height of installed product 84.7 mm Width of installed product 17.5 mm  Frequency  Frequency  Frequency 50 to 60 Hi  Power Ioss under IN 7.1 W Power loss per pole at In 4.6 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 7.1 ye of top top to the top top to the top		1.5
Depth of installed product 84.7 mm Width of installed product 17.5 mm  Frequency  Frequency  Frequency 50 to 60 Hz  Power  Total power loss under IN 7.1 W  Power loss per pole at In 4.6 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 17.9 with screw 17.9 we should be deviced 17.9 with screw 17.9 mm 17.9 mm 17.9 mm 17.9 mm 17.9 mm 17.1 mm 17.9 mm 17.		1
Height of installed product 84.7 mm Width of installed product 17.5 mm  Frequency  Frequency  Frequency 50 to 60 H.  Power  Total power loss under IN 7.1 w Power loss per pole at In 4.6 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 7.1 metallic isolated 7.2 metallic isolated 7.2 metallic isolated 7.2 metallic isolated 8.3 metallic isolated 9.4 metallic	Dimensions	
Frequency Frequency Frequency Frequency Fower  Total power loss under IN Frequency Fower loss per pole at In Frequency Fower State and the state of	Depth of installed product	70 mm
Frequency 50 to 60 Hz  Power  Total power loss under IN 7.1 W Power loss per pole at In 4.6 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 1.9 Nm Type of top rail clip for modular devices Plastic Type of bottom rail clip for modular devices metallic isolated vices With screw 1.9 Nm Type of Bottom Connection for modular devices metallic isolated vices With screw 1.0 pm removability for modular devices With screw 1.0 pm removability for modular devices With screw 1.0 pm removability for modular devices No Suitable for flush-mounting Yes  Connection  Connection cross-section at output with screw, for flexible conductor 1.7 fm mm Connection cross-section at output with screw, for massive conductor 1.7 5 mm Connection cross-section for rigid conductor, upstream terminals with screws 1.7 25 mm Connection cross-section of the access with screws, with flexible conductor 1.7 16 mm Connection cross-section of input and	Height of installed product	84.7 mm
Frequency 50 to 60 Hz  Power  Total power loss under IN 7.1 w Power loss per pole at In 4.6 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 1,9Nm Type of top rail clip for modular devices Plastic Type of bottom rail clip for modular devices metallic isolated devices with screw 1,9Nm Type of Bottom Connection for modular devices metallic isolated Rough 1,9Nm Type of Bottom Connection for modular devices metallic isolated Rough 1,9Nm Type of Bottom Connection for modular devices with screw 1,9Nm Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection for modular devices Note 1,000  Type of Bottom Connection at output with screw, for flexible conductor 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices Note 1,000  Type of top rail clip for modular devices 1,000  Type of top rai	Width of installed product	17.5 mm
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Total power loss under IN 7.1 W Power loss per pole at In 4.6 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 1,9Nm Type of top rail clip for modular devices Plastic Type of bottom rail clip for modular devices metallic isolated devices with screw 1,9Nm Type of Bottom Connection for modular devices metallic isolated Type of Bottom Connection for modular devices with screw 1,9Nm Type of Bottom Connection for modular devices with screw 1,9Nm Type of Bottom Connection for modular devices with screw 1,10 mm Connection cross-section at output with screw 1,10 mm Connection cross-section at output with screw, for flexible conductor 1,10 mm Connection cross-section for rigid conductor 1,25 mm Connection cross-section of the access with screws, with flexible conductor 1,16 mm Connection cross-section of the access with screws, with flexible conductor 1,16 mm Connection cross-section of input and	Frequency	50 to 60 H:
Power loss per pole at In 4.6 V  Endurance  Electric endurance in number of cycles 1000  Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw 1,9Nm Type of top rail clip for modular devices Plastic Type of bottom rail clip for modular devices metallic isolated 1,19Nm Type of Bottom Connection for modular devices metallic isolated 1,19Nm Type of Bottom Connection for modular devices with screw 1,19Nm Type of Bottom Connection for modular devices with screw 1,19Nm Type of Bottom Connection for modular devices 1,10Nm Type of Bottom Connection cross-section at output with 1,10Nm Connection cross-section at output with 1,10Nm Connection cross-section for rigid 1,10Nm Connection cross-section of the access with 1,10Nm Connection cross-section of the access with 1,10Nm Connection cross-section of input and	Power	
Electric endurance in number of cycles 1000 Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw 1,9Nm Type of top rail clip for modular devices Plastic 1,79Pm Type of bottom rail clip for modular devices metallic isolated 1,79Pm Type of Bottom Connection for modular devices with screw 1,79Pm Top removability for modular devices Yes Bottom removability for modular devices Note 1,79Pm Connection Connection to a toutput with 1,79Pm Connection cross-section at output with 1,79Pm Connection cross-section at output with 1,79Pm Connection cross-section of rigid 1,79Pm Connection cross-section for rigid 1,79Pm Connection cross-section of the access with 1,79Pm Connection cross-section of the access with 1,79Pm Connection cross-section of the access with 1,79Pm Connection cross-section of input and	Total power loss under IN	7.1 V
Electric endurance in number of cycles  Number of mechanical operations  2000  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 isolated Type of Bottom Connection for modular devices with screw Top removability for modular devices  Top removability for modular devices  Bottom removability for modular devices  Suitable for flush-mounting  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section of input and	Power loss per pole at In	4.6 V
Installation, mounting  Type of top connection for modular devices with screw Tightening torque 1,9Nm Type of top rail clip for modular devices metallic isolated Type of bottom rail clip for modular devices metallic isolated Type of Bottom Connection for modular devices with screw Top removability for modular devices Yes Bottom removability for modular devices Yes Suitable for flush-mounting Yes Connection Connection at output with screw, for flexible conductor 1/16 mm Connection cross-section at output with screw, for massive conductor 1/25 mm Connection cross-section for rigid conductor, upstream terminals with screws 1/25 mm Connection cross-section of the access with screws, with flexible conductor 1/16 mm Connection cross-section of input and	Endurance	
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Type of top connection for modular devices  Tightening torque  1,9Nm  Type of top rail clip for modular devices  Plastic  Type of bottom rail clip for modular devices  Type of Bottom Connection for modular devices  With screw  Top removability for modular devices  Bottom removability for modular devices  Suitable for flush-mounting  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor  1 / 16 mm  Connection cross-section of input and	Number of mechanical operations	20000
Tightening torque 1,9Nm Type of top rail clip for modular devices Plastic Type of bottom rail clip for modular devices metallic isolated 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  Connection cross-section at output with screw, for flexible conductor 1/16 mm  Connection cross-section at output with screw, for massive conductor 1/25 mm  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor 1/16 mm  Connection cross-section of the access with screws, with flexible conductor 1/16 mm  Connection cross-section of input and	Installation, mounting	
Type of top rail clip for modular devices Type of bottom rail clip for modular devices  Type of Bottom Connection for modular devices  Type of Bottom Connection for modular devices  Top removability for modular devices  Bottom removability for modular devices  No Suitable for flush-mounting  Yes  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor  1 / 16 mm  Connection cross-section of the access with screws, with flexible conductor  1 / 16 mm  Connection cross-section of input and	Type of top connection for modular devices	with screv
Type of Bottom rail clip for modular devices  Type of Bottom Connection for modular devices  Top removability for modular devices  Bottom removability for modular devices  Suitable for flush-mounting  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section of input and	Tightening torque	1,9Nm
Type of Bottom Connection for modular devices with screw  Top removability for modular devices Yes  Bottom removability for modular devices Note  Suitable for flush-mounting Yes  Connection  Connection cross-section at output with screw, for flexible conductor 1 / 16 mm  Connection cross-section at output with screw, for massive conductor 1 / 25 mm  Connection cross-section for rigid conductor, upstream terminals with screws 1 / 25 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of input and	Type of top rail clip for modular devices	Plastic
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 mm  Connection cross-section at output with screw, for massive conductor 1 / 25 mm  Connection cross-section for rigid conductor, upstream terminals with screws 1 / 25 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of input and	Type of bottom rail clip for modular devices	metallic isolated
Bottom removability for modular devices  Suitable for flush-mounting  Yes  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section of input and	**	with screw
Suitable for flush-mounting  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section of input and	Top removability for modular devices	Ye
Connection  Connection cross-section at output with screw, for flexible conductor 1 / 16 mm  Connection cross-section at output with screw, for massive conductor 1 / 25 mm  Connection cross-section for rigid conductor, upstream terminals with screws 1 / 25 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of input and	Bottom removability for modular devices	No
Connection cross-section at output with screw, for flexible conductor 1 / 16 mm  Connection cross-section at output with screw, for massive conductor 1 / 25 mm  Connection cross-section for rigid conductor, upstream terminals with screws 1 / 25 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of input and	Suitable for flush-mounting	Ye
screw, for flexible conductor 1 / 16 mm  Connection cross-section at output with screw, for massive conductor 1 / 25 mm  Connection cross-section for rigid conductor, upstream terminals with screws 1 / 25 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of input and	Connection	
Screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section of input and		1 / 16 mm
conductor, upstream terminals with screws 1 / 25 mm  Connection cross-section of the access with screws, with flexible conductor 1 / 16 mm  Connection cross-section of input and	•	1 / 25 mm
screws, with flexible conductor 1 / 16 mm  Connection cross-section of input and		1 / 25 mm
		1 / 16 mm
	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 mm²
Type of connection	with screw
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-2570 °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	-2580 °C