# MCB 1P 6/10kA C-40A 1M

Number of protected poles	1	
Number of poles	1 P	
Type of pole	1 P	
Curve	С	

#### Connectivity

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

#### Main electrical features

Frequency	50/60 Hz
Rated short circuit breaking capacity Icn AC accordin IEC60898-1	ng 6 kA
Rated operational voltage Ue	230/400 V

# Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

## **Electric current**

Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
Breaking capacity on 1 pole with 400 V NF 60947-2	3 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
Magnetic regulating currrent at 40° C	5/10 ln
min/maxi threshold value of the DC magnetic operation	7/15 ln
min/maxi threshold value of the AC thermal operation	1,13/1,45 ln
min/maxi threshold value of the DC thermal operation	1,13/1,45 ln

### Electric current / temperature

Rating current -15°C	45,6 A
Rating current -20°C	46,2 A
Rating current 0°C	43,8 A
Rating current 10°C	42,6 A
Rating current -10°C	45 A
Rating current 15°C	42 A
Rating current 20°C	41,3 A
Rating current 25°C	40,7 A
Rating current -25°C	46,8 A
Rating current 30°C	40 A
Rating current 35°C	39,3 A
Rating current 40°C	38,6 A
Rating current 45°C	37,9 A
Rating current 5°C	43,2 A

Technical Properties	
Rating current -5°C	44,4 A
Rating current 50°C	37,2 A
Rating current 55°C	36,5 A
Rating current 60°C	35,7 A
Rating current 65°C	35,1 A
Rating current 70°C	34,3 A
O	
Current correction factors	
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
Correction factor of rating current for 2 devices place	d 1
side-by-side	
Correction factor of rating current for 3 devices place	d 0,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	0,9
placed side-by-side	
Correction factor of rating current for 6 devices place	d 0,85
side-by-side	
_	
Power	
Power loss per pole at In	4,8 W
Total power loss under IN	4,8 W
Endurance	
Endurance	
	4000
Electric endurance in number of cycles	4000
	4000 20000
Electric endurance in number of cycles	
Electric endurance in number of cycles Number of mechanical operations  Dimensions	20000
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product	20000 70 mm
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Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product Installation, mounting	20000 70 mm 83 mm 17,5 mm
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices	20000  70 mm  83 mm  17,5 mm
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque	20000  70 mm  83 mm  17,5 mm  with screw 2,8Nm
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic NA
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic NA Blconnect
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic NA Blconnect no
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic NA Blconnect
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Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices  Connection  Type of connection	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic NA Blconnect no no
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices  Connection  Type of connection Connection cross section of access and exit with	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic NA Blconnect no no
Electric endurance in number of cycles Number of mechanical operations  Dimensions  Depth of installed product Height of installed product Width of installed product  Installation, mounting  Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices  Connection  Type of connection Connection cross section of access and exit with screws, for flexible conductor	20000  70 mm 83 mm 17,5 mm  with screw 2,8Nm metallic NA Blconnect no no  with screw 1/25 mm²

### Standards

Standard text	EN 60898-1
European directive WEEE	not concerned
Safety	
Protection index IP	IP20
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Operating temperature	-25 70 °C
Class of energy limitation I2t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
Air humidity protection	for all climates
Storage/transport temperature	-25 80 °C