



## MW106

## MCB 1P 3kA C-6A 1M

## **Technical properties**

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Neutral position	without neutral
Number of poles	1 P
Type of pole	1 P
Fixing mode	DIN rail type O (symmetrical)
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC
Voltage	
Rated insulation voltage	500 V
Max operating voltage	415 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated current	6 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	5 / 10 ln
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	3 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	3 kA
Electric current / temperature	
Rating current -25°C	7.62 A
Rating current -20°C	7.45 A
Rating current -15°C	7.27 A

Rating current 5°C         6.92 A           Rating current 0°C         6.75 A           Rating current 1°C         6.88 A           Rating current 10°C         6.4 A           Rating current 20°C         6.03 A           Rating current 20°C         5.88 A           Rating current 30°C         6.6 A           Rating current 30°C         5.3 A           Rating current 30°C         5.53 A           Rating current 40°C         5.53 A           Rating current 45°C         5.18 A           Rating current 50°C         4.81 A           Rating current 50°C         4.84 A           Rating current 60°C         4.66 A           Rating current 60°C         4.48 A           Rating current 70°C         4.31 A           Currection 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 6 devices placed side-by-side         0.95           Correction factor of rating current for 6 devices placed side-by-side         0.95           Correction factor of rating current for 6 devices placed side-by-side         0.95           Correction factor of rating current for	Rating current -10°C	7 A
Rating current 10°C         6.58 A           Rating current 10°C         6.44 A           Rating current 15°C         6.23 A           Rating current 20°C         6.05 A           Rating current 20°C         5.88 A           Rating current 25°C         5.88 A           Rating current 35°C         5.53 A           Rating current 40°C         5.53 A           Rating current 50°C         4.81 A           Rating current 50°C         4.83 A           Rating current 60°C         4.66 A           Rating current 60°C         4.81 A           Rating current 70°C         4.81 A           Rating current 70°C         4.81 A           Current 65°C         4.48 A           Rating current 70°C         4.51 A           Current 65°C         4.81 A           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         0.85           Dimensions         0.90           Dimensions         0.90           Depth of installed product         70 mm           Width of installed product         70 mm	Rating current -5°C	6.92 A
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Rating current 35°C 5.53 A Rating current 40°C 5.35 A Rating current 40°C 5.35 A Rating current 45°C 5.18 A Rating current 45°C 4.81 A Rating current 50°C 4.81 A Rating current 50°C 4.83 A Rating current 60°C 4.66 A Rating current 60°C 4.86 A Rating current 60°C 4.81 A Rating current 60°C 4.81 A Rating current 70°C 4.31 A  Current correction factors  Current 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 0.96 Correction factor of rating current for 6 devices placed side-by-side 0.98  Dimensions  Depth of installed product 70 mm Width of installed product 17.5 mm  Power  Maximum power loss per pole according to the product standard 3 W Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000 Number of mechanical operations 20000  Installation, mounting Type of top connection for modular devices with screw 15ghten connection for modular devices Biconnect  Connection  Connection cross-section at output with 5 crew, for flexible conductor 1,725 mm² Connection cross-section at output with	Rating current 25°C	5.88 A
Rating current 40°C 5.35 A Rating current 45°C 5.18 A Rating current 45°C 4.81 A Rating current 50°C 4.81 A Rating current 50°C 4.83 A Rating current 60°C 4.66 A Rating current 60°C 4.46 A Rating current 65°C 4.48 A Rating current 65°C 4.48 A Rating current 60°C 4.31 A  Current correction factor of 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 0.90 Correction factor of rating current for 6 devices placed side-by-side 0.95  Dimensions  Depth of installed product 70 mm Width of installed product 70 mm Width of installed product 17.5 mm  Power  Maximum power loss per pole according to the product standard 3 W Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000 Number of mechanical operations 20000  Installation, mounting Type of top connection for modular devices with screw 1 Tightening torque 2,8Nm Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with 5 crew, for flexible conductor 1,725 mm² Connection cross-section at output with	Rating current 30°C	6 A
Rating current 45°C 4.81 A Rating current 50°C 4.81 A Rating current 50°C 4.83 A Rating current 55°C 4.83 A Rating current 60°C 4.66 A Rating current 60°C 4.48 A Rating current 65°C 4.48 A Rating current 65°C 4.48 A Rating current 70°C 4.31 A  Current correction factors  Currection 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 0.95  Correction factor of rating current for 6 devices placed side-by-side 0.95  Dimensions  Depth of installed product 70 mm Width of installed product 70 mm Width of installed product 3 w Power  Maximum power loss per pole according to the product standard 3 w Power loss per pole at In 1.19 w  Endurance  Electric endurance in number of cycles 4000 Number of mechanical operations 20000  Installation, mounting Type of top connection for modular devices with screw 1 ghering torque 2.8Nm Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1,25 mm² Connection cross-section at output with	Rating current 35°C	5.53 A
Rating current 50°C 4.8.1 A Rating current 55°C 4.8.3 A Rating current 60°C 4.6.6 A Rating current 60°C 4.4.8 A Rating current 65°C 4.4.8 A Rating current 65°C 4.4.8 A Rating current 70°C 4.3.1 A  Current correction factors  Currection 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 0.95  Correction factor of rating current for 6 devices placed side-by-side 0.85  Dimensions  Depth of installed product 70 mm Width of installed product 70 mm Width of installed product 3.8 W Power  Maximum power loss per pole according to the product standard 3.8 W Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000 Number of mechanical operations 20000  Installation, mounting Type of top connection for modular devices with screw 11ghtening torque 2.8 Nm Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1,25 mm² Connection cross-section at output with	Rating current 40°C	5.35 A
Rating current 55°C 4.8.3 A Rating current 60°C 4.6.6 A Rating current 65°C 4.4.8 A Rating current 65°C 4.4.8 A Rating current 65°C 4.4.8 A Rating current 70°C 4.3.1 A  Current correction factors  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 0.9.9  Correction factor of rating current for 6 devices placed side-by-side 0.85  Dimensions  Depth of installed product 70 mm Width of installed product 17.5 mm  Power  Maximum power loss per pole according to the product standard 3 W Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000 Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1,25 mm²  Connection cross-section at output with screw, for flexible conductor 1,25 mm²  Connection cross-section at output with	Rating current 45°C	5.18 A
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Current 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 3 devices placed side-by-side 0.95  Correction factor of rating current for 4 and 5 devices placed side-by-side 0.99  Correction factor of rating current for 6 devices placed side-by-side 0.85  Dimensions  Depth of installed product 70 mm  Width of installed product 1.7.5 mm  Power  Maximum power loss per pole according to the product standard 3 W Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000  Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw 11ghtening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1,25 mm²  Connection cross-section at output with screw, for flexible conductor 1,25 mm²  Connection cross-section at output with	Rating current 65°C	4.48 A
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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       Dimensions     70 mm       Depth of installed product     70 mm       Width of installed product     17.5 mm       Power     Amazimum power loss per pole according to the product standard     3 w       Power loss per pole at In     1.19 w       Electric endurance in number of cycles     4000       Number of mechanical operations     20000       Installation, mounting     2,8Nm       Type of top connection for modular devices     with screw       Tightening torque     2,8Nm       Type of Bottom Connection for modular devices     Blconnect       Connection     1/25 mm²       Connection cross-section at output with screw, for flexible conductor     1/25 mm²       Connection cross-section at output with		1
5 devices placed side-by-side 0.9  Correction factor of rating current for 6 devices placed side-by-side 0.85  Pimensions  Depth of installed product 70 mm Width of installed product 17.5 mm  Power  Maximum power loss per pole according to the product standard 3 W Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000 Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw 15gh tender of the product of		0.95
Dimensions       Depth of installed product     70 mm       Width of installed product     17.5 mm       Power     ***  Maximum power loss per pole according to the product standard     3 W       Power loss per pole at ln     1.19 W       Endurance     ***  Electric endurance in number of cycles     4000       Number of mechanical operations     20000       Installation, mounting     ***  Type of top connection for modular devices     with screw       Tightening torque     2,8Nm       Type of Bottom Connection for modular devices     Blconnect       Connection     ***  Connection cross-section at output with screw, for flexible conductor     1/25 mm²       Connection cross-section at output with     ***  Connection cross-section at output with		0.9
Depth of installed product 70 mm  Width of installed product 17.5 mm  Power  Maximum power loss per pole according to the product standard 3 W  Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000  Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with		0.85
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Maximum power loss per pole according to the product standard 3 W  Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000  Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw  Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with	Width of installed product	17.5 mm
the product standard 3 W  Power loss per pole at In 1.19 W  Endurance  Electric endurance in number of cycles 4000  Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw  Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with	Power	
Electric endurance in number of cycles 4000  Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw  Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with		3 W
Electric endurance in number of cycles 4000  Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw  Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with	Power loss per pole at In	1.19 W
Number of mechanical operations 20000  Installation, mounting  Type of top connection for modular devices with screw  Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with	Endurance	
Installation, mounting  Type of top connection for modular devices with screw  Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with	Electric endurance in number of cycles	4000
Type of top connection for modular devices  Tightening torque  2,8Nm  Type of Bottom Connection for modular devices  Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor  1/25 mm²  Connection cross-section at output with	Number of mechanical operations	20000
Tightening torque 2,8Nm  Type of Bottom Connection for modular devices Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with	Installation, mounting	
Type of Bottom Connection for modular devices  Blconnect  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with	Type of top connection for modular devices	with screw
Connection  Connection cross-section at output with screw, for flexible conductor 1/25 mm²  Connection cross-section at output with	Tightening torque	2,8Nm
Connection cross-section at output with screw, for flexible conductor 1 / 25 mm <sup>2</sup> Connection cross-section at output with		Blconnect
screw, for flexible conductor 1 / 25 mm <sup>2</sup> Connection cross-section at output with	Connection	
	·	1 / 25 mm²
		1 / 35 mm²

Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm²
Equipment	
Can be accessorized	No
Standards	
Standard text	IEC 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Class of energy limitation I²t	3
Altitude	2000 m
Storage/transport temperature	-2580 °C
temperatur	
Temperature of calibration	30 °C