



## MCB 1P 10kA/15kA D-50A 1M

## **Technical properties**

Electric	current
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Rated current         50 A           Rated short-circuit breaking capacity Icn under 230 V Ac according to IEC 60898-1         10 kA           Rated current -25°C         65,12 A           Rated current at -20°C         62,84 A           Rated current -15°C         61,37 A           Rated current 5°C         60,15 A           Rated current 5°C         60,15 A           Rated current 10°C         58,92 A           Rated current 10°C         56,47 A           Rated current 15°C         56,47 A           Rated current 25°C         54,05 A           Rated current 30°C         50,40 A           Rated current 30°C         50,40 A           Rated current 30°C         49,40 A           Rated current 35°C         49,40 A           Rated current 35°C         49,40 A           Rated current 35°C         46,96 A           Rated current 55°C         40,71 A           Rated current 60°C         40,33 A           Rated current 60°C         37,57 A           Rated current 70°C         34,49 A           Architecture         D           Type of pole         1P           Curve         D           Capacity         1           Number of modules	Electric current	
under 230 V AC according to IEC 60898-1         10 kA           Rated current -25°C         65.12 A           Rated current at -20°C         63.89 A           Rated current -15°C         62.64 A           Rated current -10°C         61.37 A           Rated current -5°C         60.15 A           Rated current at 0°C         58.92 A           Rated current 10°C         56.47 A           Rated current 15°C         55.26 A           Rated current 25°C         54.05 A           Rated current 25°C         52.84 A           Rated current 30°C         50.0 A           Rated current 35°C         49.40 A           Rated current 35°C         49.40 A           Rated current at 40°C         48.22 A           Rated current at 45°C         46.72 A           Rated current 55°C         46.71 A           Rated current 60°C         40.33 A           Rated current 60°C         37.57 A           Rated current 60°C         34.49 A           Architecture         D           Curve         D           Capacity           Number of modules         1           Main electrical attributes           Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	Rated current	50 A
Rated current at -20°C Rated current -15°C Rated current -10°C Rated current -5°C Rated current -5°C Rated current -5°C Rated current at 0°C Rated current at 0°C Rated current 5°C Rated current 25°C Rated current 30°C Rated current 50°C Rated curre	- · · · · · · · · · · · · · · · · · · ·	10 kA
Rated current -15°C         62,64 A           Rated current -10°C         61,37 A           Rated current -5°C         60,15 A           Rated current at 0°C         58,92 A           Rated current 5°C         57,69 A           Rated current 10°C         56,47 A           Rated current 15°C         52,66 A           Rated current at 20°C         54,05 A           Rated current 25°C         52,84 A           Rated current 30°C         50 A           Rated current 35°C         49,40 A           Rated current 35°C         46,72 A           Rated current 4 45°C         46,72 A           Rated current 55°C         42,77 A           Rated current 60°C         40,33 A           Rated current 70°C         34,49 A           Architecture         D           Type of pole         1P           Curve         D           Capacity         1           Number of modules         1           Main electrical attributes         1           Rated short-circuit breaking capacity Icn AC according to Ice 60898-1         10 kA           Nominal tightening torque top terminal         2,80 - 2,80 Nm           Nominal tightening torque down terminal         2,80 - 2,80 Nm <td>Rated current -25°C</td> <td>65,12 A</td>	Rated current -25°C	65,12 A
Rated current -10°C         61,37 A           Rated current -5°C         60,15 A           Rated current at 0°C         58,92 A           Rated current 5°C         57,69 A           Rated current 10°C         56,47 A           Rated current 15°C         55,26 A           Rated current at 20°C         54,05 A           Rated current 30°C         50 A           Rated current 30°C         50 A           Rated current 35°C         49,40 A           Rated current at 40°C         48,22 A           Rated current at 50°C         46,72 A           Rated current 55°C         46,72 A           Rated current 60°C         40,33 A           Rated current 60°C         37,57 A           Rated current 70°C         34,49 A           Architecture         D           Capacity         D           Main electrical attributes         1           Rated short-circuit breaking capacity Icn AC according to IEC 60898-1         10 kA           Nominal tightening torque down terminal         2,80 - 2,80 Nm           Nominal tightening torque down terminal         2,80 - 2,80 Nm	Rated current at -20°C	63,89 A
Rated current -5°C         60,15 A           Rated current at 0°C         58,92 A           Rated current 5°C         57,69 A           Rated current 10°C         56,47 A           Rated current 15°C         55,26 A           Rated current at 20°C         54,05 A           Rated current 30°C         50 A           Rated current 35°C         49,40 A           Rated current at 40°C         48,22 A           Rated current at 50°C         46,72 A           Rated current 55°C         46,72 A           Rated current 55°C         42,77 A           Rated current 60°C         40,33 A           Rated current 60°C         34,49 A           Architecture         34,49 A           Architecture         D           Capacity         D           Main electrical attributes         1           Rated short-circuit breaking capacity Icn AC according to IEC 60898-1         10 kA           Nominal tightening torque down terminal         2,80 - 2,80 Nm           Nominal tightening torque down terminal         2,80 - 2,80 Nm	Rated current -15°C	62,64 A
Rated current at 0°C	Rated current -10°C	61,37 A
Rated current 5°C         57,69 A           Rated current 10°C         56,47 A           Rated current 15°C         55,26 A           Rated current at 20°C         54,05 A           Rated current 25°C         52,84 A           Rated current 30°C         50 A           Rated current 35°C         49,40 A           Rated current at 40°C         48,22 A           Rated current at 45°C         46,72 A           Rated current 55°C         42,77 A           Rated current 60°C         40,33 A           Rated current 65°C         37,57 A           Rated current 70°C         34,49 A           Architecture         D           Capacity         D           Number of modules         1           Main electrical attributes         1           Rated short-circuit breaking capacity Icn AC according to IEC 60898-1         10 kA           Nominal tightening torque top terminal         2,80 - 2,80 Nm           Nominal tightening torque down terminal         2,80 - 2,80 Nm           Voltage	Rated current -5°C	60,15 A
Rated current 10°C       56,47 A         Rated current 15°C       55,26 A         Rated current at 20°C       54,05 A         Rated current 25°C       52,84 A         Rated current 30°C       50 A         Rated current 35°C       49,40 A         Rated current at 40°C       48,22 A         Rated current at 45°C       46,72 A         Rated current 55°C       42,77 A         Rated current 60°C       40,33 A         Rated current 70°C       34,49 A         Architecture         Type of pole       1P         Curve       D         Capacity         Number of modules       1         Main electrical attributes         Rated short-circuit breaking capacity Icn AC according to IEC 60898-1       10 kA         Nominal tightening torque top terminal       2,80 - 2,80 Nm         Nominal tightening torque down terminal       2,80 - 2,80 Nm          Voltage	Rated current at 0°C	58,92 A
Rated current 15°C       55,26 A         Rated current at 20°C       54,05 A         Rated current 25°C       52,84 A         Rated current 30°C       50 A         Rated current 35°C       49,40 A         Rated current at 40°C       48,22 A         Rated current at 45°C       46,72 A         Rated current 55°C       42,77 A         Rated current 60°C       40,33 A         Rated current 70°C       34,49 A         Architecture         Type of pole       1P         Curve       D         Capacity         Number of modules       1         Main electrical attributes         Rated short-circuit breaking capacity Icn AC according to IEC 60898-1       10 kA         Nominal tightening torque top terminal       2,80 - 2,80 Nm         Voltage	Rated current 5°C	57,69 A
Rated current at 20°C       54,05 A         Rated current 25°C       52,84 A         Rated current 30°C       50 A         Rated current at 40°C       49,40 A         Rated current at 40°C       46,72 A         Rated current at 50°C       46,96 A         Rated current 55°C       42,77 A         Rated current 60°C       40,33 A         Rated current 70°C       34,49 A         Architecture       D         Capacity       D         Number of modules       1         Main electrical attributes       1         Rated short-circuit breaking capacity Icn AC according to IEC 60898-1       10 kA         Nominal tightening torque top terminal       2,80 - 2,80 Nm         Voltage       Voltage	Rated current 10°C	56,47 A
Rated current 25°C 52,84 A Rated current 30°C 50 A Rated current 35°C 49,40 A Rated current at 40°C 48,22 A Rated current at 45°C 46,72 A Rated current at 45°C 46,96 A Rated current at 50°C 46,96 A Rated current 55°C 42,77 A Rated current 60°C 40,33 A Rated current 65°C 37,57 A Rated current 70°C 34,49 A  Architecture Type of pole 1P Curve D  Capacity Number of modules 1  Main electrical attributes Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA Nominal tightening torque top terminal 2,80 - 2,80 Nm Nominal tightening torque down terminal 2,80 - 2,80 Nm	Rated current 15°C	55,26 A
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Rated current 70°C 34,49 A  Architecture  Type of pole 1P  Curve D  Capacity  Number of modules 1  Main electrical attributes  Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA  Nominal tightening torque top terminal 2,80 - 2,80 Nm  Nominal tightening torque down terminal 2,80 - 2,80 Nm	Rated current 60°C	40,33 A
Architecture  Type of pole 1P  Curve D  Capacity  Number of modules 1  Main electrical attributes  Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA  Nominal tightening torque top terminal 2,80 - 2,80 Nm  Nominal tightening torque down terminal 2,80 - 2,80 Nm	Rated current 65°C	37,57 A
Type of pole 1P Curve D  Capacity Number of modules 1  Main electrical attributes Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA Nominal tightening torque top terminal 2,80 - 2,80 Nm Nominal tightening torque down terminal 2,80 - 2,80 Nm	Rated current 70°C	34,49 A
Curve D  Capacity  Number of modules 1  Main electrical attributes  Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA  Nominal tightening torque top terminal 2,80 - 2,80 Nm  Nominal tightening torque down terminal 2,80 - 2,80 Nm	Architecture	
Capacity  Number of modules 1  Main electrical attributes  Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA  Nominal tightening torque top terminal 2,80 - 2,80 Nm  Nominal tightening torque down terminal 2,80 - 2,80 Nm	Type of pole	1P
Number of modules 1  Main electrical attributes  Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA  Nominal tightening torque top terminal 2,80 - 2,80 Nm  Nominal tightening torque down terminal 2,80 - 2,80 Nm	Curve	D
Main electrical attributes  Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA  Nominal tightening torque top terminal 2,80 - 2,80 Nm  Nominal tightening torque down terminal 2,80 - 2,80 Nm	Capacity	
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according to IEC 60898-1 10 kA  Nominal tightening torque top terminal 2,80 - 2,80 Nm  Nominal tightening torque down terminal 2,80 - 2,80 Nm  Voltage	Main electrical attributes	
Nominal tightening torque down terminal 2,80 - 2,80 Nm  Voltage		10 kA
Voltage	Nominal tightening torque top terminal	2,80 - 2,80 Nm
	Nominal tightening torque down terminal	2,80 - 2,80 Nm
Rated operational voltage Ue 230 - 400 V	Voltage	
	Rated operational voltage Ue	230 - 400 V

Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	6000 V
Frequency	
Frequency	50 - 60 Hz
Connection	
Cross-section of input and output with screws, for massive conductors	1 - 35 mm²
Cross-section of input and output with screws, for flexible conductors	1 - 25 mm²
Cross-section of input with screws, for flex- ible conductors	1 - 25 mm²
Cross-section of input with screws, for massive conductors	1 - 35 mm²
Installation, mounting	
Nominal tightening torque	2,80 - 2,80 Nm
Type of bottom connection for modular devices	biconnect
Type of top connection for modular devices	Screw terminal
360° mounting position possible	Yes
Safety	
Ingress Protection (IP) class	IP20
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Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Operating temperature	-25 - 70 °C
Power	
Total power loss under IN	4,70 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Connectivity	
Type of connection	
Top connection alignment for modular devices	Screw terminal
4011000	
Down connection alignment for modular devices	Aligned terminal
Down connection alignment for modular	Aligned terminal
Down connection alignment for modular devices	Aligned terminal  Aligned terminal  Aligned terminal
Down connection alignment for modular devices  Dimensions	Aligned terminal