



## MCB 3P 15kA C-100A 4.5M

## **Technical properties**

Arc	h	ito	cti	ıro

Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4.5
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular	,g., ca. caa.
devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	15 kA
Rated operational voltage Ue	415 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Electric current	
Rated current	100 A
min/maxi threshold value of the AC thermal	100 A
operation	1.13 / 1.45 In
Magnetic regulating currrent	5 / 10 In
Rating current 10°C according to IEC 60947	124 A
Rating current 15°C according to IEC 60947	120 A
Rating current 20°C according to IEC 60947	116 A
Rating current 25°C according to IEC 60947	112 A
Rating current 30°C according to IEC 60947	108 A
Rating current 35°C according to IEC 60947	104 A
Rating current 40°C according to IEC 60947	100 A
Rating current 45°C according to IEC 60947	96.6 A

Rating current 50°C according to IEC 60947         89.4 A           Rating current 55°C according to IEC 60947         89.5 A           Rating current 60°C according to IEC 60947         77.5 A           Rating current 70°C according to IEC 60947         77.5 A           Rating current 70°C according to IEC 60947         77.5 A           Breaking capacity on 1 pole for IT 415V NF 60947-2         45. kA           Rated abort circuit breaking capacity Icu under 230V AC according IEC 60898-1         15. kA           Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1         15. kA           Rated short circuit breaking capacity Icu under 2400 AC according IEC 60989-1         15. kA           Rated short circuit breaking capacity Icu under 2400 AC according IEC 60984-2         50.%           Rated ultimate short-circuit breaking capacity Icu under 2400 AC IEC 60947-2         15. kA           Rated ultimate short-circuit breaking capacity Icu under 2400 AC IEC 60947-2         15. kA           Rated ultimate short-circuit breaking capacity Icu under 2400 AC IEC 60947-2         15. kA           Rated ultimate short-circuit breaking capacity Icu under 2400 AC IEC 60947-2         15. kA           Rated ultimate short-circuit breaking capacity Icu under 2400 AC IEC 60947-2         15. kA           Rated ultimate short-circuit breaking capacity Icu under 2400 AC IEC 60947-2         16. kA           Rated ultimate short-circ		
Rating current 60°C according to IEC 60947         85.6 A           Rating current 65°C according to IEC 60947         77.5 A           Rating current 70°C according to IEC 60947         77.5 A           Breaking capacity on 1 pole for IT 400V NF 60947-2         4.5 kA           Breaking capacity on 1 pole for IT 415V NF 60947-2         4.5 kA           Rated short circuit breaking capacity Ich under 230V AC according IEC 60898-1         15 kA           Rated short circuit breaking capacity Ich under 400V AC according IEC 60987-2         50 %           Rated short circuit breaking capacity Ich under 400V AC according IEC 60987-2         15 kA           Rated service breaking capacity Ich AC according IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         15 kA           Rating current 5°C         124 A           Rating current 5°C         124 A           Rating current 5°C         100 A           Rating current 5°C         104 A		
Rating current 65°C according to IEC 60947         81.6 A           Rating current 70°C according to IEC 60947         77.5 A           Breaking capacity on 1 pole for IT 400V NF 60947-2         45 kA           Breaking capacity on 1 pole for IT 415V NF 60947-2         4.5 kA           Rated short circuit breaking capacity lcn under 230V AC according IEC60898-1         15 kA           Rated short circuit breaking capacity lcn under 400V AC according IEC60898-1         15 kA           Rated short circuit breaking capacity lcs AC according IEC 60947-2         50 %           Rated ultimate short-circuit breaking capacity lcs AC according IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2         12 kA           Rating current 10°C         124 A           Rating current 5°C         120 A           Rating current 10°C         116 A           Rating current 25°C         104 A           Rating current 35°C         94 A		89.4 A
Rating current 70°C according to IEC 60947 77.5 A Breaking capacity on 1 pole for IT 400V NF 60947-2 4.5 kA Breaking capacity on 1 pole for IT 415V NF 60947-2 4.5 kA Rated short circuit breaking capacity len under 230V AC according IEC60898-1 15 kA Rated short circuit breaking capacity len under 400V AC according IEC60898-1 15 kA Rated short circuit breaking capacity len under 400V AC according IEC60898-1 15 kA Rated service breaking capacity les AC according IEC60947-2 50 % Rated ultimate short-circuit breaking capacity les AC according IEC60947-2 15 kA Rated ultimate short-circuit breaking capacity leu under 240V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity leu under 240V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity leu under 400V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity leu under 400V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity leu under 400V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity leu under 400V AC IEC 60947-2 15 kA Rating current 7°C 120 A Rating current 10°C 124 A Rating current 10°C 124 A Rating current 10°C 124 A Rating current 25°C 120 A Rating current 25°C 120 A Rating current 35°C 120 A Rating current 35°C 100 A Rating current 50°C 100 A Rating current 60°C 77.5 A Current correction factor of rating current for 3 devices placed side-by-side 0.95	Rating current 60°C according to IEC 60947	85.6 A
Breaking capacity on 1 pole for IT 400V NF 60947-2	Rating current 65°C according to IEC 60947	81.6 A
Separa   S	Rating current 70°C according to IEC 60947	77.5 A
60947-2         4.5 kA           Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1         15 kA           Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1         15 kA           Rated service breaking capacity Ics AC according IEC 60947-2         50 %           Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         15 kA           Rating current 0°C         124 A           Rating current 10°C         116 A           Rating current 10°C         116 A           Rating current 10°C         116 A           Rating current 20°C         100 A           Rating current 30°C         100 A           Rating current 40°C         93 .1 A           Rating current 40°C         93 .1 A           Rating current 40°C         93 .1 A           Rating current 5°C         100 A           Rating current 40°C         93 .1 A           Rating cu		4.5 kA
under 230V AC according IEC60898-1         15 kA           Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1         15 kA           Rated service breaking capacity Ics AC according IEC 60947-2         50 %           Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         15 kA           Rating current 5°C         124 A           Rating current 5°C         120 A           Rating current 10°C         116 A           Rating current 15°C         110 A           Rating current 25°C         104 A           Rating current 30°C         108 A           Rating current 40°C         93.1 A           Rating current 40°C         83.6 A           Rating current 55°C         89.4 A           Rating current 50°C         85.6 A           Rating current 55°C         89.4 A           Rating current 50°C         85.6 A           Rating current 55°C         80.6		4.5 kA
under 400V AC according IEC 60898-1         15 kA           Rated service breaking capacity Ics AC according IEC 60947-2         50 %           Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         15 kA           Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2         124 A           Rating current 5°C         124 A           Rating current 10°C         116 A           Rating current 10°C         116 A           Rating current 15°C         112 A           Rating current 20°C         108 A           Rating current 30°C         100 A           Rating current 30°C         96.6 A           Rating current 40°C         93.1 A           Rating current 5°C         89.4 A           Rating current 5°C         89.4 A           Rating current 5°C         89.4 A           Rating current 5°C         89.6 A           Rating current 5°C         89.6 A           Rating current 5°C         89.4 A           Rating current 5°C <td></td> <td>15 kA</td>		15 kA
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Dimensions  Depth of installed product  Height of installed product  90 mm	9	0.9
Depth of installed product 70 mm Height of installed product 90 mm		0.85
Height of installed product 90 mm	Dimensions	
	Depth of installed product	70 mm
Width of installed product 80 mm	Height of installed product	90 mm
	Width of installed product	80 mm

Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	21.66 W
Power loss per pole at In	7.98 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
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	with screw
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 50 mm²
Connection cross-section at output with screw, for massive conductor	1 / 70 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm²
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm²
Standards	
Standard text	EN 60898-1 ; IEC 60947-2 ; AS/NZS 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
REACH conform	Yes
RoHS conform	Yes
Halogen free	No
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
temperatur	
Temperature of calibration	30 °C

30 °C

Temperature of calibration