



## MCB 1P 6kA C-4A 1M

## **Technical properties**

Arch
Arch

7.1.011.1001.110	
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
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 short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated current	4 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 In
Magnetic regulating currrent	5 / 10 ln
min/maxi threshold value of the DC magnetic operation	7 / 15 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 ln
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA

Electric current / temperature  Rating current -25°C 5. Rating current -20°C 5. Rating current -10°C 4. Rating current -5°C 4. Rating current -5°C 4. Rating current 5°C 4. Rating current 10°C 4. Rating current 10°C 4. Rating current 10°C 4. Rating current 5°C 4. Rating current 5°C 4. Rating current 20°C 5. Rating current 20°C 7. Rating current 20°C 7. Rating current 20°C 7. Rating current 20°C 7. Rating current 5°C 7. Rating current 6°C 7. Rating current	Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	10 k
Rating current -25°C 5. Rating current -15°C 4. Rating current -10°C 4. Rating current -0°C 4. Rating current 0°C 4. Rating current 0°C 4. Rating current 0°C 4. Rating current 10°C 4. Rating current 20°C 4. Rating current 20°C 4. Rating current 20°C 4. Rating current 30°C 7. Rating current 30°C 7. Rating current 30°C 8. Rating current 30°C 8. Rating current 30°C 8. Rating current 50°C 7. Rating current 50°C 8. Rating current 50°C 9.	Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	10 k
Rating current -20°C Rating current -15°C Rating current -15°C Rating current -5°C Rating current 0°C Rating current 0°C Rating current 10°C Againg current 10°C Againg current 10°C Againg current 15°C Againg current 15°C Againg current 15°C Againg current 20°C Againg current 20°C Againg current 20°C Againg current 25°C Againg current 35°C Againg current 35°C Againg current 35°C Againg current 35°C Againg current 40°C Againg current 45°C Againg current 55°C Againg current 55°C Againg current 55°C Againg current 55°C Againg current 60°C Againg current for 6 Againg curren	Electric current / temperature	
Rating current 5°C Rating current 20°C Rating current 30°C Rating current 30°C Rating current 30°C Rating current 40°C Rating current 40°C Rating current 5°C  Rating current 50°C  Rating current 50°C  Rating current 50°C  Rating current 60°C  Rating current 60°C  Rating current 60°C  Currection factor of rating current for 2 dedevices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with  200 Hz  Correction factor of magnetic tripping with  800 Hz  Dimensions  Depth of installed product  Rating current 5°C  4.  And the second sec	Rating current -25°C	5.2
Rating current -10°C	Rating current -20°C	5.1
Rating current -5°C 4. Rating current 10°C 4. Rating current 10°C 4. Rating current 10°C 4. Rating current 15°C 4. Rating current 15°C 4. Rating current 20°C 4. Rating current 20°C 4. Rating current 25°C 4. Rating current 30°C 4. Rating current 30°C 7. Rating current 40°C 7. Rating current 40°C 7. Rating current 40°C 7. Rating current 55°C 7. Rating current 55°C 7. Rating current 55°C 7. Rating current 55°C 7. Rating current 60°C 8. Rating current for 60°C 8. Rating cur	Rating current -15°C	5 .
Rating current 0°C ARating current 5°C ARating current 10°C ARating current 10°C ARating current 10°C ARAting current 10°C ARAting current 20°C ARAting current 20°C ARAting current 30°C ARAting current 30°C ARAting current 40°C ARAting current 40°C ARAting current 40°C ARAting current 50°C ARATING current 50°C ARATING current 60°C ARATING current 60°C ARATING current 60°C ARATING current 70°C ARATING current 70°C ARATING current 70°C ARATING current for 2 A devices placed side-by-side Correction factor of rating current for 3 A devices placed side-by-side Correction factor of rating current for 4 and 5 A devices placed side-by-side Correction factor of magnetic tripping with A 100 Hz A 100	Rating current -10°C	4.9
Rating current 5°C 4. Rating current 10°C 4. Rating current 15°C 4. Rating current 25°C 4. Rating current 25°C 4. Rating current 25°C 4. Rating current 35°C 4. Rating current 35°C 3. Rating current 35°C 3. Rating current 40°C 3. Rating current 45°C 3. Rating current 45°C 3. Rating current 55°C 3. Rating current 65°C 3. Rating current 65°C 3. Rating current 65°C 5. Rating current 65°C 5. Current correction factors 5. Correction factor of rating current for 2 5. Current correction factor of rating current for 3 5. Correction factor of rating current for 3 5. Correction factor of rating current for 4 and 5. Correction factor of rating current for 6. 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 50 Hz Dimensions Depth of installed product 70 installed product 83 in 10 installed product 83 installed product 8	Rating current -5°C	4.8
Rating current 10°C 4. Rating current 20°C 4. Rating current 25°C 4. Rating current 30°C 4. Rating current 30°C 3. Rating current 35°C 3. Rating current 40°C 3. Rating current 45°C 3. Rating current 45°C 3. Rating current 55°C 3. Rating current 55°C 3. Rating current 50°C 3. Rating current 55°C 3. Rating current 50°C 3. Rating current 50°C 3. Rating current 60°C 3. Rating current 60°C 3. Rating current 60°C 3. Rating current 70°C 2. Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 5 devices p	Rating current 0°C	4.7
Rating current 15°C 4. Rating current 20°C 4. Rating current 30°C 4. Rating current 30°C 3. Rating current 35°C 3. Rating current 40°C 3. Rating current 40°C 3. Rating current 50°C 3. Rating current 50°C 3. Rating current 60°C 3. Rating current 60°C 3. Rating current 65°C 2. Rating current 70°C 2.  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 0. Correction factor of rating current for 3 devices placed side-by-side 0. Correction factor of rating current for 6 devices placed side-by-side 0. Correction factor of magnetic tripping with 1000 Hz  Correction factor of magnetic tripping with 4000 Hz  Correction factor of magnetic tripping with 600 Hz  Dimensions  Depth of installed product 70 installed 70 installed product 70 installed 70 installed product 70 installed	Rating current 5°C	4.6
Rating current 20°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 40°C Rating current 45°C Rating current 45°C Rating current 55°C Rating current 65°C Rating current for 3 Reting current 65°C Current correction factor of rating current for 2 Reting current for 3 Reting current for 3 Reting current for 4 and 5 Reting factor of rating current for 4 and 5 Reting factor of rating current for 6 Reting factor of magnetic tripping with 1000 Hz Correction factor of magnetic tripping with 2000 Hz Correction factor of magnetic tripping with 1000 Hz Co	Rating current 10°C	4.5
Rating current 25°C Rating current 30°C Rating current 40°C Rating current 45°C Rating current 45°C Rating current 45°C Rating current 55°C Rating current 55°C Rating current 65°C Rating current for 2 devices placed side-by-side Correction factor of rating current for 2 devices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with Height of installed product Rating current for 6 devices placed side-by-side Correction factor of magnetic tripping with Correction factor of magnetic tripping	Rating current 15°C	4.4
Rating current 30°C Rating current 40°C Rating current 45°C Rating current 45°C Rating current 55°C Rating current 55°C Rating current 55°C Rating current 60°C Rating current 60°C Rating current 60°C Rating current 60°C Rating current 70°C  Current correction factors  Correction factor of rating current for 2 deevices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with Height of installed product  Polimensions  Depth of installed product Rating current specific product Rating current specifi	Rating current 20°C	4.2
Rating current 40°C  Rating current 40°C  Rating current 45°C  Rating current 50°C  Rating current 50°C  Rating current 60°C  Rating current 60°C  Rating current 60°C  Rating current 70°C  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product  Rating current 40°C  3.  Rating current 60°C  4.  Rating current 60°C  3.  Rating current 60°C  4.  Rating current 60°C  4.  Rating current 60°C  8.  Rating current 60	Rating current 25°C	4.1
Rating current 40°C  Rating current 50°C  Rating current 55°C  Rating current 60°C  Rating current 60°C  Rating current 60°C  Rating current 60°C  Rating current 70°C  2.  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product  Rating current 45°C  3.  Rating current 60°C  4.  2.  Correction factor of rating current for 2  devices placed side-by-side  0.  Correction factor of magnetic tripping with 60°C  Correction factor of magnetic tripping with 60°C  Hz  Dimensions  Depth of installed product  70 In the first fir	Rating current 30°C	4 .
Rating current 45°C  Rating current 50°C  Rating current 55°C  Rating current 60°C  Rating current 60°C  Rating current 65°C  Rating current 70°C  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product  Prequency	Rating current 35°C	3.9
Rating current 50°C  Rating current 60°C  Rating current 60°C  Rating current 60°C  Rating current 60°C  Rating current 70°C  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with  Hould Ha  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hould Ha  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hould Ha  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hould Ha  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hould Ha  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hould Ha  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hould Ha  Correction factor of magnetic tripping with  Co	Rating current 40°C	3.8
Rating current 55°C  Rating current 60°C  Rating current 60°C  Rating current 60°C  Rating current 70°C  2.  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with  Hough Hz  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hough Hz  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hough Hz  Correction factor of magnetic tripping with  Correction factor of magnetic tripping with  Hought of installed product  To a device of the factor	Rating current 45°C	3.6
Rating current 60°C  Rating current 65°C  Rating current 70°C  2.  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with  Endown Hz  Correction factor of magnetic tripping with  Height of installed product  Width of installed product  Frequency	Rating current 50°C	3.5
Rating current 65°C  Rating current 70°C  2.  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product  Height of installed product  Frequency	Rating current 55°C	3.3
Rating current 70°C 2.  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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  Dimensions  Depth of installed product 70 installed product 83 installed product 17.5 installed 17	Rating current 60°C	3.2
Current correction factors  Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product 70 installed product 83 installed product 17.5 installed 17.5 instal	Rating current 65°C	3.
Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product  Width of installed product  Frequency	Rating current 70°C	2.9
devices placed side-by-side  Correction factor of rating current for 3 devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product  Width of installed product  17.5 of Frequency	Current correction factors	
devices placed side-by-side  Correction factor of rating current for 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 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 60 Hz  Dimensions  Depth of installed product 70 meighbor of installed product 17.5 meighbor o	Correction factor of rating current for 2 devices placed side-by-side	
5 devices placed side-by-side  Correction factor of rating current for 6 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 600 Hz  Dimensions  Depth of installed product 70 magnetic tripping with 60 installed product 17.5 magnetic tripping with 60 magneti	Correction factor of rating current for 3 devices placed side-by-side	0.9
devices placed side-by-side 0  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 60 Hz  Dimensions  Depth of installed product 70 magnetic tripping with 10 magnetic tripping with 1	Correction factor of rating current for 4 and 5 devices placed side-by-side	0.
Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency	Correction factor of rating current for 6 devices placed side-by-side	0.8
Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 70 metalled product 83 metalled product 17.5 metalled pr	Correction factor of magnetic tripping with 100 Hz	1.
A00 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 70 median for the first alled product 83 median for the first alled product 17.5 median for the first alled	Correction factor of magnetic tripping with 200 Hz	1.
Dimensions  Depth of installed product  Height of installed product  Width of installed product  17.5 r  Frequency	Correction factor of magnetic tripping with 400 Hz	1.
Depth of installed product 70 installed product 83 in Width of installed product 17.5 in Frequency	Correction factor of magnetic tripping with 60 Hz	
Height of installed product 83 multiple with the stalled product 17.5 multiple product 1	Dimensions	
Width of installed product 17.5 r	Depth of installed product	70 mr
Frequency	Height of installed product	83 mr
	Width of installed product	17.5 mr
	Frequency	
Frequency 50 to 60	Frequency	50 to 60 H

Total nower loss under IN	1.9 W
Total power loss under IN	
Power loss per pole at In	1.9 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-sect. flexible conductor	1 / 25mm²
Connection cross-sect. rigid cable	1 / 35mm²
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Type of connection	with screw
Standards	
Standard text	EN 60898-1
Safety	
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 I²t	3
Altitude	2000 m
Air humidity protection	for all climates

-25...80 °C

Storage/transport temperature