



## MCB 2P 6kA C-1A 2M

**Technical properties** 

Type of pole       2         Curve       Functions         Concurrently switching N-neutral       N         Configuration       N         Number of modules       Connectivity         Top connection alignement for modular devices       Aligned termining         Bottom connection alignement for modular devices       Aligned termining         Main electrical features       Aligned termining         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Prequency       50/60 H         Voltage       4000         Electric current       1         Rated insulation voltage       4000         Electric current       1         Rated current       1         Rated service breaking capacity Ics AC according IEC60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating current       5 / 10 I         min/maxi threshold value of the DC mermal operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       7 / 15 I         Breaking capacity on 1 pole for IT 400V NF operation       3 k         Rated shor	Number of protected poles	2
Curve Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termini Bottom connection alignement for modular devices Aligned termini Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k Rated operational voltage Voltage Rated insulation voltage S000 Rated insulation voltage S000 Rated insulation voltage S000 Rated insulation voltage S000 Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxi threshold value of the AC thermal operation S1.13 / 1.45 I Magnetic regulating current S1.33 / 1.45 I S1.33	Number of poles	2 F
Functions         Concurrently switching N-neutral       N         Configuration       N         Number of modules       Connectivity         Top connection alignement for modular devices       Aligned termine         Bottom connection alignement for modular devices       Aligned termine         Main electrical features       Aligned termine         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Frequency       50/60 H         Voltage       4000         Electric current       1         Rated insulation voltage       500         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxit threshold value of the AC thermal operation       1.13 / 1.45 1         Magnetic regulating current       5 / 10 1         min/maxit threshold value of the DC magnetic operation       7 / 15 1         min/maxit threshold value of the DC thermal operation       1.13 / 1.45 1         Breaking capacity on 1 pole for IT 4000 NF       3 k         Rated short circuit breaking capacity Icn       3 k	Type of pole	2 F
Concurrently switching N-neutral N Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termine Bottom connection alignement for modular devices Aligned termine Rated short circuit breaking capacity Icn AC according IEC 60898-1 Rated short circuit age Rated insulation voltage Rated insulation voltage Rated insulation voltage Electric current Rated service breaking capacity Ics AC according IEC 60898-1 Rated service breaking capacity Ics AC According IEC 60898-1 Rated service breaking capacity Ics AC According IEC 60898-1 Rated service breaking capacity Ics AC According IEC 60898-1 Rated service breaking capacity Ics AC According IEC 60898-1 Rated service breaking capacity ICs AC According IEC 60898-1 Rated ser	Curve	C
Configuration         Number of modules         Connectivity         Top connection alignement for modular devices       Aligned terminal         Bottom connection alignement for modular devices       Aligned terminal         Main electrical features       Aligned terminal         Main electrical features       Aligned terminal         Main electrical features       6 k         Rated short circuit breaking capacity Icn AC according IEC60899-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Frequency       50/60 H         Voltage       4000         Electric current       1         Rated insulation voltage       4000         Electric current       1         Rated service breaking capacity Ics AC according IEC 6089-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating current       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k         Rated short circuit breaking capacity Icn       3 k	Functions	
Number of modules Connectivity Top connection alignement for modular devices Aligned termine Bottom connection alignement for modular devices Aligned termine Main electrical features Rated short circuit breaking capacity Icn AC according IEC60899-1 6 k Rated operational voltage Ue 400 Type of supply voltage Kated insulation voltage Rated insulation voltage Electric current Rated current Rated current 1 Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn	Concurrently switching N-neutral	Να
Connectivity         Top connection alignement for modular devices       Aligned termine         Bottom connection alignement for modular devices       Aligned termine         Main electrical features       Aligned termine         Main electrical features       Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Frequency       50/60 H         Voltage       400         Rated insulation voltage       500         Rated insulation voltage       500         Rated current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxit threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF operation       3 k         Rated short circuit breaking capacity Icn       3 k	Configuration	
Top connection alignement for modular devices       Aligned terminal devices         Bottom connection alignement for modular devices       Aligned terminal devices         Main electrical features       Aligned terminal devices         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Frequency       50/60 H         Voltage       4000         Rated insulation voltage       5000         Rated impulse withstand voltage       4000         Electric current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k         Rated short circuit breaking capacity Icn       3 k	Number of modules	2
devices       Aligned terminic         Bottom connection alignement for modular devices       Aligned terminic         Main electrical features       Aligned terminic         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Frequency       50/60 H         Voltage       4000         Rated insulation voltage       500         Rated insulation voltage       500         Rated impulse withstand voltage       4000         Electric current       1         Rated current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       3 k         Rated short circuit breaking capacity Icn       3 k	Connectivity	
devices       Aligned terminal         Main electrical features       Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Frequency       50/60 H         Voltage       400         Rated insulation voltage       500         Rated insulation voltage       500         Rated insulation voltage       500         Rated insulation voltage       4000         Electric current       1         Rated current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k         Rated short circuit breaking capacity Icn       3 k	Top connection alignement for modular devices	Aligned termina
Rated short circuit breaking capacity Icn AC         according IEC60898-1       6 k         Rated operational voltage Ue       400         Type of supply voltage       A         Frequency       50/60 H         Voltage       400         Rated insulation voltage       500         Rated insulation voltage       500         Rated impulse withstand voltage       4000         Electric current       1         Rated current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         min/maxi threshold value of the DC thermal operation       3 k         Rated short circuit breaking capacity Icn       3 k	Bottom connection alignement for modular devices	Aligned termina
according IEC60898-16 kRated operational voltage Ue400Type of supply voltageAFrequency50/60 HVoltage8Rated insulation voltage500Rated insulation voltage4000Electric current1Rated current1Rated service breaking capacity Ics AC according IEC 60898-16 kmin/maxi threshold value of the AC thermal operation1.13 / 1.45 IMagnetic regulating currrent5 / 10 Imin/maxi threshold value of the DC magnetic operation7 / 15 Imin/maxi threshold value of the DC thermal operation1.13 / 1.45 IBreaking capacity on 1 pole for IT 400V NF 60947-23 kRated short circuit breaking capacity Icn3 k	Main electrical features	
Type of supply voltage A Frequency 50/60 H Voltage Rated insulation voltage 500 Rated impulse withstand voltage 4000 Electric current Rated current 1 Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating currrent 5 / 10 I min/maxi threshold value of the DC magnetic operation 7 / 15 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn	Rated short circuit breaking capacity Icn AC according IEC60898-1	6 k/
Frequency       50/60 H         Voltage       Rated insulation voltage       500         Rated insulation voltage       4000         Electric current       4000         Electric current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k         Rated short circuit breaking capacity Icn       3 k	Rated operational voltage Ue	400 \
Voltage         Rated insulation voltage       500         Rated impulse withstand voltage       4000         Electric current       10         Rated current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k         Rated short circuit breaking capacity Icn       3 k	Type of supply voltage	AC
Rated insulation voltage500Rated impulse withstand voltage4000Electric current1Rated current1Rated service breaking capacity Ics AC according IEC 60898-16 kmin/maxi threshold value of the AC thermal operation1.13 / 1.45 IMagnetic regulating currrent5 / 10 Imin/maxi threshold value of the DC magnetic operation7 / 15 Imin/maxi threshold value of the DC thermal operation1.13 / 1.45 IBreaking capacity on 1 pole for IT 400V NF 60947-23 kRated short circuit breaking capacity Icn3 k	Frequency	50/60 H:
Rated impulse withstand voltage       4000         Electric current       1         Rated current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k         Rated short circuit breaking capacity Icn       3 k	Voltage	
Electric current       1         Rated current       1         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       7 / 15 I         Min/maxi threshold value of the DC thermal operation       3 k         Rated short circuit breaking capacity Icn       3 k	Rated insulation voltage	500 \
Rated current       1         Rated service breaking capacity Ics AC       6         according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal       0         operation       1.13 / 1.45 l         Magnetic regulating currrent       5 / 10 l         min/maxi threshold value of the DC       7 / 15 l         min/maxi threshold value of the DC thermal       0         operation       1.13 / 1.45 l         Breaking capacity on 1 pole for IT 400V NF       3 k         Rated short circuit breaking capacity Icn       3 k	Rated impulse withstand voltage	4000 \
Rated service breaking capacity Ics AC         according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal       0         operation       1.13 / 1.45 l         Magnetic regulating currrent       5 / 10 l         min/maxi threshold value of the DC       7 / 15 l         min/maxi threshold value of the DC thermal       0         operation       1.13 / 1.45 l         Breaking capacity on 1 pole for IT 400V NF       3 k         Rated short circuit breaking capacity Icn       3 k	Electric current	
according IEC 60898-16 kmin/maxi threshold value of the AC thermal operation1.13 / 1.45 IMagnetic regulating currrent5 / 10 Imin/maxi threshold value of the DC magnetic operation7 / 15 Imin/maxi threshold value of the DC thermal operation1.13 / 1.45 IBreaking capacity on 1 pole for IT 400V NF 60947-23 kRated short circuit breaking capacity Icn1	Rated current	1 /
operation1.13 / 1.45 IMagnetic regulating currrent5 / 10 Imin/maxi threshold value of the DC magnetic operation7 / 15 Imin/maxi threshold value of the DC thermal operation1.13 / 1.45 IBreaking capacity on 1 pole for IT 400V NF 60947-23 kRated short circuit breaking capacity Icn1.13 / 1.45 I	Rated service breaking capacity Ics AC according IEC 60898-1	6 k/
min/maxi threshold value of the DC magnetic operation 7 / 15 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn	min/maxi threshold value of the AC thermal operation	1.13 / 1.45 lı
magnetic operation 7 / 15 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn	Magnetic regulating currrent	5 / 10
operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn	min/maxi threshold value of the DC magnetic operation	7 / 15 II
60947-2 3 k Rated short circuit breaking capacity Icn		1.13 / 1.45
	Breaking capacity on 1 pole for IT 400V NF 60947-2	3 k/
	Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 k/

Rated ultimate short-circuit breaking capa- city Icu under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capa- city lcu under 415V AC IEC 60947-2	10 kA
Electric current / temperature	
Rating current -25°C	1.4 A
Rating current -20°C	1.4 A
Rating current -15°C	1.3 A
Rating current -10°C	1.3 A
Rating current -5°C	1.3 A
Rating current 0°C	1.2 A
Rating current 5°C	1.2 A
Rating current 10°C	1.2 A
Rating current 15°C	1.1 A
Rating current 20°C	1.1 A
Rating current 25°C	1.1 A
Rating current 30°C	1 A
Rating current 35°C	1 A
Rating current 40°C	0.9 A
Rating current 45°C	0.9 A
Rating current 50°C	0.9 A
Rating current 55°C	0.8 A
Rating current 60°C	0.8 A
Rating current 65°C	0.8 A

## **Current correction factors**

Rating current 70°C

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
Correction factor of rating current for 6 devices placed side-by-side	0.85
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
Dimensions	
Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	35 mm
Frequency	
Frequency	50 to 60 Hz

0.7 A

Total power loss under IN	2.8 W
Power loss per pole at In	1.4 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 / 25mm <sup>2</sup>
Connection cross-sect. rigid cable	1 / 35mm <sup>2</sup>
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm <sup>2</sup>
Type of connection	with screv
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 I <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-2580 °C