



## MCB 4P 10kA C-32A 4M

## **Technical characteristics**

Architectu
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Architecture	
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4
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	10 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	32 A
Rated service breaking capacity Ics AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	5 / 10 In
min/maxi threshold value of the DC magnetic operation	7 / 15 ln
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 400V AC according IEC60898-1	10 kA

Electric current / temperature  Rating current -25°C 40 Rating current -20°C 40 Rating current -10°C 38 Rating current -10°C 38 Rating current -10°C 38 Rating current -5°C 37 Rating current 5°C 37 Rating current 20°C 37 Rating current 20°C 38 Rating current 30°C 38 Rating current 40°C 38 Rating current 40°C 38 Rating current 40°C 38 Rating current 5°C 29 Rating current 5°C 29 Rating current 5°C 29 Rating current 5°C 29 Rating current 5°C 27 Rating current 5°C 27 Rating current 60°C 27 Rating current 60°C 27 Rating current 60°C 27 Rating current 60°C 37 Rating current 60°C 47	capacity Icu under 230V AC IEC 60947-2	10 k/
Asting current -25°C 40 Asting current -15°C 39 Asting current -10°C 37 Asting current -10°C 37 Asting current -10°C 37 Asting current 5°C 37 Asting current 5°C 37 Asting current 10°C 37 Asting current 20°C 37 Asting current 20°C 37 Asting current 20°C 37 Asting current 30°C 37 Asting current 30°C 37 Asting current 40°C 37 Asting current 40°C 37 Asting current 50°C 29 Asting current 50°C 29 Asting current 60°C 27 Asting current 60°C 27 Asting current 60°C 27 Asting current 60°C 37 Asting current 60°C 47 Asting current 60°C	Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 k
Nating current -20°C	Electric current / temperature	
Nating current -15°C 38 Nating current -10°C 38 Nating current 0°C 37 Nating current 0°C 37 Nating current 10°C 35 Nating current 10°C 35 Nating current 15°C 36 Nating current 15°C 36 Nating current 20°C 38 Nating current 20°C 38 Nating current 30°C 38 Nating current 30°C 38 Nating current 30°C 38 Nating current 40°C 30 Nating current 40°C 30 Nating current 40°C 30 Nating current 50°C 28 Nating current 50°C 29 Nating current 50°C 27 Nating current 50°C 28 Nating current 60°C 38 Nating current 70°C 38	Rating current -25°C	40.8
Nating current -10°C  Nating current 0°C  Nating current 0°C  Nating current 10°C  Nating current 10°C  Nating current 15°C  Nating current 15°C  Nating current 20°C  Nating current 20°C  Nating current 30°C  Nating current 30°C  Nating current 30°C  Nating current 40°C  Nating current 40°C  Nating current 50°C  Nating current 60°C  Nating current for 40°C  Nating current 60°C  Nating current for 60°C  Nating curre	Rating current -20°C	40.1
Nating current 5°C	Rating current -15°C	39.3
Nating current 0°C 37 Nating current 10°C 35 Nating current 10°C 35 Nating current 15°C 34 Nating current 15°C 35 Nating current 20°C 35 Nating current 20°C 35 Nating current 30°C 35 Nating current 30°C 35 Nating current 35°C 35 Nating current 40°C 36 Nating current 40°C 36 Nating current 50°C 26 Nating current 50°C 27 Nating current 50°C 27 Nating current 50°C 36 Nating current 50°C 36 Nating current 60°C 36 Nating current 60°C 36 Nating current 70°C 36 Nating current 70°C 36 Nating current 70°C 36 Nating current 60°C 46	Rating current -10°C	38.6
Rating current 5°C 36 Rating current 10°C 35 Rating current 15°C 34 Rating current 20°C 33 Rating current 20°C 33 Rating current 30°C 32 Rating current 30°C 31 Rating current 35°C 31 Rating current 40°C 30 Rating current 40°C 30 Rating current 50°C 29 Rating current 50°C 27 Rating current 50°C 37 Rating current 50°C 37 Rating current 50°C 37 Rating current 60°C 37 Rating current 60°C 37 Rating current 60°C 37 Rating current 70°C 37 Rating current 70°C 37 Rating current 60°C 37 Rating current for	Rating current -5°C	37.8
Nating current 10°C 35 Nating current 25°C 34 Nating current 25°C 35 Nating current 30°C 35 Nating current 30°C 35 Nating current 35°C 36 Nating current 40°C 36 Nating current 40°C 36 Nating current 50°C 28 Nating current 55°C 27 Nating current 55°C 37 Nating current 60°C 37 Nating current for 30 Nating current for 30 Nating current for 30 Nating current for 30 Nating current for 4 and 37 Nating current for 60 Nating current for	Rating current 0°C	37.1
Rating current 15°C Rating current 20°C Rating current 30°C Rating current 30°C Rating current 40°C Rating current 40°C Rating current 55°C Rating current 55°C Rating current 55°C Rating current 60°C Rating current for 5°C Rating current for 6°C Rating current for 7°C Rating current for 8°C Rati	Rating current 5°C	36.3
Rating current 20°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 60°C Rating current 65°C Rating current 60°C Rating current for 4 Rating current 70°C Rating current of actor of rating current for 2 Revices placed side-by-side Revices placed side-b	Rating current 10°C	35.5
Rating current 25°C 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 65°C Rating current 70°C Rating	Rating current 15°C	34.6
Rating current 30°C Rating current 40°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 70°C Rating current 70°C Current correction factors Correction factor of rating current for 2 levices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 6 levices placed side-by-side Correction factor of magnetic tripping with COHz Correction factor of magnetic tripping with COHz Correction factor of magnetic tripping with COHz Correction factor of magnetic tripping with Correction factor of magnetic tripping wit	Rating current 20°C	33.8
Rating current 35°C 31 Rating current 40°C 30 Rating current 45°C 29 Rating current 55°C 28 Rating current 55°C 27 Rating current 60°C 27 Rating current 60°C 27 Rating current 60°C 37 Rating current 60°C 38	Rating current 25°C	32.9
Rating current 45°C 29 Rating current 55°C 28 Rating current 55°C 27 Rating current 60°C 27 Rating current 65°C 27 Rating current 65°C 37 Rating current 65°C 37 Rating current 65°C 37 Rating current 65°C 37 Rating current 70°C 37	Rating current 30°C	32 .
Rating current 45°C 29 Rating current 55°C 27 Rating current 60°C 27 Rating current 60°C 27 Rating current 65°C 37 Rating current 65°C 37 Rating current 65°C 37 Rating current 70°C 37 Rating current 70°C 37 Rating current 70°C 37 Rating current factor of rating current for 2 Rating current factor of rating current for 3 Revices placed side-by-side 38 Rating current for 4 and 38 Revices placed side-by-side 38 Revices placed side-by-side 38 Rating current for 6 Rating current for 70 R	Rating current 35°C	31.1
Rating current 50°C 28 Rating current 60°C 27 Rating current 60°C 37 Rating current 60°C 37 Rating current 60°C 37 Rating current 60°C 37 Rating current 70°C 37 Rating current 70°C 37 Rating current factors 37 Rating current for of rating current for 2 Rating current for of rating current for 3 Revices placed side-by-side 38 Revices placed side-by-side 38 Revices placed side-by-side 38 Rating current for 6 Rating current for	Rating current 40°C	30.1
Rating current 55°C 27 Rating current 60°C	Rating current 45°C	29.1
Rating current 60°C Rating current 65°C Rating current 70°C Rating current 70°C Rating current 70°C Rating current 70°C Rating current for 2 Revices placed side-by-side Correction factor of rating current for 3 Revices placed side-by-side Correction factor of rating current for 4 and of devices placed side-by-side Correction factor of rating current for 6 Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Correction factor of magnetic tripping with Revices placed side-by-side Revices placed side-by-s	Rating current 50°C	28.1
Rating current 65°C Rating current 70°C Record 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 6 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Correction factor of magnetic tripping with Roo Hz Correction factor o	Rating current 55°C	27.1
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  Correction factor of magnetic tripping wit	Rating current 60°C	26
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 6 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 f	Rating current 65°C	25
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 6 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 w	Rating current 70°C	24 /
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 6 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	Current correction factors	
devices placed side-by-side  Correction factor of rating current for 4 and 6 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with 1,00 Hz  Correction factor of magnetic tripping with 2,00 Hz  Correction factor of magnetic tripping with 1,00 Hz  Correction fac	Correction factor of rating current for 2 devices placed side-by-side	
Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with  Correction factor of magnetic tripping w	Correction factor of rating current for 3 devices placed side-by-side	0.9
devices placed side-by-side  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 300 Hz  Correction factor of magnetic tripping wi	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 50 Hz  Dimensions Depth of installed product 70 Height of installed product 83 Width of installed product 70  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 50 Hz  Dimensions Depth of installed product 70 Height of installed product 83  Width of installed product 70  Frequency	Correction factor of magnetic tripping with 100 Hz	1.
Correction factor of magnetic tripping with 50 Hz  Dimensions Depth of installed product 70 Height of installed product 83  Width of installed product 70	Correction factor of magnetic tripping with 200 Hz	1.
Dimensions Depth of installed product 70 Height of installed product 83 Width of installed product 70 Frequency	Correction factor of magnetic tripping with 400 Hz	1.
Depth of installed product 70 Height of installed product 83 Width of installed product 70 Frequency	Correction factor of magnetic tripping with 60 Hz	
Height of installed product 83 Width of installed product 70 Frequency	Dimensions	
Width of installed product 70  Frequency	Depth of installed product	70 mr
Frequency	Height of installed product	83 mr
· ·	Width of installed product	70 mr
Frequency 50 to 6	Frequency	
30 to 0.	Frequency	50 to 60 H

Power	
Total power loss under IN	14 W
Power loss per pole at In	3.59 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 top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	metallic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	No
Bottom removability for modular devices	No
Connection	
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
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-2570 °C
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m

-25...80 °C

Storage/transport temperature