



NRN220

MCB 2P 25kA C-20A 2M

Technical properties

Arc	hi	tec	tu	re
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Neutral position	without neutral
Number of protected poles	2
Number of poles	2 P
Type of pole	2 P
Curve	C
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	2
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	415 V
Type of supply voltage	AC
Voltage	
Rated insulation voltage	500 V
Max operating voltage	415 V
Rated impulse withstand voltage	6000 V
Electric current	
Rated current	20 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	5 / 15 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 ln
Rating current -10°C according to IEC 60947	26.75 A

Rating current -15°C according to IEC 60947	27.24 A
Rating current -20°C according to IEC 60947	27.72 A
Rating current -25°C according to IEC 60947	28.19 A
Rating current -5°C according to IEC 60947	26.26 A
Rating current 0°C according to IEC 60947	25.75 A
Rating current 10°C according to IEC 60947	24.71 A
Rating current 15°C according to IEC 60947	24.17 A
Rating current 20°C according to IEC 60947	23.62 A
Rating current 25°C according to IEC 60947	23.06 A
Rating current 30°C according to IEC 60947	22.48 A
Rating current 35°C according to IEC 60947	21.88 A
Rating current 40°C according to IEC 60947	21.28 A
Rating current 45°C according to IEC 60947	20.65 A
Rating current 5°C according to IEC 60947	25.24 A
Rating current 50°C according to IEC 60947	20 A
Rating current 55°C according to IEC 60947	19.33 A
Rating current 60°C according to IEC 60947	18.64 A
Rating current 65°C according to IEC 60947	17.92 A
Rating current 70°C according to IEC 60947	17.17 A
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	10 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	10 kA
Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	25 kA
Current correction factors	
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

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	
Dimensions	
Depth of installed product	70 mm
Height of installed product	83 mn
Width of installed product	35 mn
Frequency	
Frequency	50 to 60 H
Power	
Maximum power loss per pole according to the product standard	4.5 V
Total power loss under IN	5.29 V
Power loss per pole at In	2.68 V
Tripping	
Time of response when opening	7 m
Endurance	
Electric endurance in number of cycles	400
Number of made and a language and	
Number of mechanical operations	20000
Installation, mounting	2000(
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Installation, mounting	with screv
Installation, mounting Type of top connection for modular devices	with screv 2,8Nn
Installation, mounting Type of top connection for modular devices Tightening torque	with screv 2,8Nn N <i>i</i>
Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular	with screv 2,8Nn N/ plasti
Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices	with screv 2,8Nn N/ plasti Blconnec
Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Top removability for modular devices	with screw 2,8Nn N/ plasti Blconnec
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Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Top removability for modular devices Bottom removability for modular devices	with screw 2,8Nn N/ plasti Blconnec Ye
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Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Top removability for modular devices Bottom removability for modular devices Suitable for flush-mounting Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid	with screw 2,8Nn N/ plasti Blconnec Ye Ye 1 / 25 mm 1 / 35 mm
Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Top removability for modular devices Bottom removability for modular devices Suitable for flush-mounting Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid conductor, upstream terminals with screws Connection cross-section of the access with	with screw 2,8Nn N/ plasti Blconnec Ye Ye 1 / 25 mm 1 / 35 mm
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Yes Can be accessorized

Standards

Standard text IEC 60947-2

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
Storage/transport temperature	-2580 °C

Temperature of calibration

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50 °C