



NGN350



MCB 3P 6/10kA D-50A 3M

Technical properties

Arc	hi	tec	tu	re
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Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	D
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	3
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	400 V
Type of supply voltage	AC
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Minimum threshold voltage (Ue min)	12 V
Electric current	
Rated current	50 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 ln
Magnetic regulating currrent	10 / 14.4 In
min/maxi threshold value of the DC magnetic operation	15 / 30 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 ln
Rating current -10°C according to IEC 60947	67.39 A

Rating current -25°C according to IEC 60947 66.12 A Rating current -15°C according to IEC 60947 66.12 A Rating current 10°C according to IEC 60947 62.14 A Rating current 10°C according to IEC 60947 62.14 A Rating current 25°C according to IEC 60947 59.34 A Rating current 25°C according to IEC 60947 59.34 A Rating current 30°C according to IEC 60947 57.89 A Rating current 30°C according to IEC 60947 57.89 A Rating current 40°C according to IEC 60947 56.4 A Rating current 40°C according to IEC 60947 51.87 A Rating current 40°C according to IEC 60947 51.67 A Rating current 40°C according to IEC 60947 51.67 A Rating current 40°C according to IEC 60947 51.67 A Rating current 45°C according to IEC 60947 51.67 A Rating current 5°C according to IEC 60947 51.67 A Rating current 5°C according to IEC 60947 50.0 A Rating current 5°C according to IEC 60947 79.9 A Rating current 55°C according to IEC 60947 79.9 A Rating current 60°C according to IEC 60947 79.9 A Rating current 60°C according to IEC 60947 79.9 A Rating current 55°C according to IEC 60947 79.9 A Rating current 55°C according to IEC 60947 79.9 A Rating current 55°C according to IEC 60947 79.9 A Rating current 55°C according to IEC 60947 79.9 A Rating current 55°C according to IEC 60947 79.0 A Rating current 50°C according to IEC 60947 79.0 A Rated short circuit breaking capacity Icn under 400 A C according IEC 60989-1 60.4 A Rated ultimate short-circuit breaking capacity Icn under 400 A C according IEC 60989-1 60.4 A Rated ultimate short-circuit breaking capacity Icn under 400 A C IEC 60947-2 20. A Rated ultimate short-circuit breaking capacity Icn under 400 A C IEC 60947-2 20. A Rated ultimate short-circuit breaking capacity Icn under 400 A C IEC 60947-2 20. A Rated ultimate short-circuit breaking capacity Icn under 400 A C IEC 60947-2 20. A Rated ultimate short-circuit breaking capacity Icn under 400 A C IEC 60947-2 20. A Rated ultimate short-circuit breaking capacity Icn under 400 A C IEC 60947-2 30. A Rated ultimate short-circuit breaking capacity Icn under	Rating current -15°C according to IEC 60947	68.64 A
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		56.29 A
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Rating current 45°C 45.2 Rating current 50°C 41.8 Rating current 50°C 40.0 Rating current 60°C 40.0 Rating current 60°C 38.1 Rating current 60°C 38.1 Rating current 60°C 38.1 Rating current 70°C 36.0 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 4 and 5 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 100 Hz Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with 400 Hz Dimensions Depth of installed product 70 or 48.3 Reting tripping vith 60 Hz Frequency 50 to 60 Power Maximum power loss per pole according to the product standard 5.5 Endurance Electric endurance in number of cycles 40 Number of mechanical operations 200 Installation, mounting 7 Type of top connection for modular devices 10 with 50 cm 10 c	Rating current 35°C	48.48 A
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Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 60 Hz Dimensions Depth of installed product 70 magnetic final form of installed product 83 magnetic final fina	9	0.85
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 60 Hz Pieght of installed product 83 magnetic for magnetic for magnetic for magnetic tripping with 60 Hz Personal forms and for magnetic fo		1.1
August 200 Hz Correction factor of magnetic tripping with 60 Hz Dimensions Depth of installed product 70 melight of installed product 83 melight of installed product 52.5 me		1.2
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Frequency	Depth of installed product	70 mm
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Power Maximum power loss per pole according to the product standard Total power loss under IN Power loss per pole at In 5.5 Endurance Electric endurance in number of cycles Aumber of mechanical operations 200 Installation, mounting Type of top connection for modular devices Tightening torque 2,88 Type of top rail clip for modular devices	Frequency	
Maximum power loss per pole according to the product standard Total power loss under IN 15.4 Power loss per pole at In 5.5 Endurance Electric endurance in number of cycles Number of mechanical operations 200 Installation, mounting Type of top connection for modular devices Tightening torque 2,88 Type of top rail clip for modular devices	Frequency	50 to 60 Hz
the product standard Total power loss under IN 15.4 Power loss per pole at In 5.5 Endurance Electric endurance in number of cycles Number of mechanical operations 200 Installation, mounting Type of top connection for modular devices Tightening torque 2,81 Type of top rail clip for modular devices	Power	
Power loss per pole at In 5.5 Endurance Electric endurance in number of cycles 40 Number of mechanical operations 200 Installation, mounting Type of top connection for modular devices with scr Tightening torque 2,81 Type of top rail clip for modular devices		9 W
Electric endurance in number of cycles 40 Number of mechanical operations 200 Installation, mounting Type of top connection for modular devices with scr Tightening torque 2,88 Type of top rail clip for modular devices	Total power loss under IN	15.4 W
Electric endurance in number of cycles Number of mechanical operations 200 Installation, mounting Type of top connection for modular devices with scr Tightening torque 2,81 Type of top rail clip for modular devices	Power loss per pole at In	5.5 W
Number of mechanical operations 200 Installation, mounting Type of top connection for modular devices with scr Tightening torque 2,81 Type of top rail clip for modular devices	Endurance	
Installation, mounting Type of top connection for modular devices with scr Tightening torque 2,88 Type of top rail clip for modular devices	Electric endurance in number of cycles	4000
Type of top connection for modular devices with scr Tightening torque 2,8I Type of top rail clip for modular devices	Number of mechanical operations	20000
Tightening torque 2,8I Type of top rail clip for modular devices	Installation, mounting	
Type of top rail clip for modular devices	Type of top connection for modular devices	with screw
	Tightening torque	2,8Nm
Type of bottom rail clip for modular devices plas	Type of top rail clip for modular devices	NA
		IVA

Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 25 mm²
Connection cross-section at output with screw, for massive conductor	1 / 35 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm²
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Equipment	
Can be accessorized	Yes
Standards	
Standard text	EN 60898-1 ; 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
Altitude	2000 m
Storage/transport temperature	-2580 °C
temperatur	
Temperature of calibration	50 °C