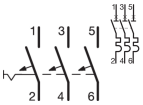
NGN350



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

Technical characteristics

Architecture

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 In
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 In
Rating current -10°C according to IEC 60947	67.39 A

Rating current -15°C according to IEC 60947	68.64 A
Rating current -20°C according to IEC 60947	69.87 A
Rating current -25°C according to IEC 60947	71.08 A
Rating current -5°C according to IEC 60947	66.12 A
Rating current 0°C according to IEC 60947	64.82 A
Rating current 10°C according to IEC 60947	62.14 A
Rating current 15°C according to IEC 60947	60.75 A
Rating current 20°C according to IEC 60947	59.34 A
Rating current 25°C according to IEC 60947	57.89 A
Rating current 30°C according to IEC 60947	56.4 A
Rating current 35°C according to IEC 60947	54.87 A
Rating current 40°C according to IEC 60947	53.29 A
Rating current 45°C according to IEC 60947	51.67 A
Rating current 5°C according to IEC 60947	63.49 A
Rating current 50°C according to IEC 60947	50 A
Rating current 55°C according to IEC 60947	47.99 A
Rating current 60°C according to IEC 60947	45.9 A
Rating current 65°C according to IEC 60947	43.7 A
Rating current 70°C according to IEC 60947	41.38 A
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	6 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 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	6 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	10 kA

Electric current / temperature

Rating current -25°C	63.02 A
Rating current -20°C	61.95 A
Rating current -15°C	60.86 A
Rating current -10°C	59.75 A
Rating current -5°C	58.62 A
Rating current 0°C	57.47 A
Rating current 5°C	56.29 A
Rating current 10°C	55.09 A

Rating current 25°C	51.32 A
Rating current 30°C	50 A
Rating current 35°C	48.48 A
Rating current 40°C	46.91 A
Rating current 45°C	45.29 A
Rating current 50°C	43.6 A
Rating current 55°C	41.85 A
Rating current 60°C	40.02 A
Rating current 65°C	38.11 A
Rating current 70°C	36.09 A

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
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	52.5 mm

Frequency

Frequency	50 to 60 Hz

Power

Maximum power loss per pole according to the product standard	9 W
Total power loss under IN	15.4 W
Power loss per pole at In	5.5 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	plastic

Type of Bottom Connection for modular devices	BIconnect
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	-25…70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Altitude	2000 m
Storage/transport temperature	-25…80 °C

temperatur

Temperature of calibration	50 °C