



NRN416

## MCB 4P 25kA C-16A 4M

**Technical properties** 

Neutral position	without neutra
Number of protected poles	2
Number of poles	4 F
Type of pole	4 F
Curve	(
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4
Connectivity	
Top connection alignement for modular devices	Aligned termina
Bottom connection alignement for modular devices	Aligned termina
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	10 k/
Rated operational voltage Ue	415 \
Type of supply voltage	AC
Voltage	
Rated insulation voltage	500
Max operating voltage	415 \
Rated impulse withstand voltage	6000
Electric current	
Rated current	16 /
Rated service breaking capacity Ics AC according IEC 60898-1	7.5 k/
min/maxi threshold value of the AC thermal operation	1.13 / 1.45
Magnetic regulating currrent	5 / 10
min/maxi threshold value of the DC magnetic operation	5 / 15
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 li

Rating current -15°C according to IEC 60947	22.15 A
Rating current -20°C according to IEC 60947	22.55 A
Rating current -25°C according to IEC 60947	22.95 A
Rating current -5°C according to IEC 60947	21.32 A
Rating current 0°C according to IEC 60947	20.89 A
Rating current 10°C according to IEC 60947	20.01 A
Rating current 15°C according to IEC 60947	19.55 A
Rating current 20°C according to IEC 60947	19.09 A
Rating current 25°C according to IEC 60947	18.61 A
Rating current 30°C according to IEC 60947	18.12 A
Rating current 35°C according to IEC 60947	17.61 A
Rating current 40°C according to IEC 60947	17.09 A
Rating current 45°C according to IEC 60947	16.55 A
Rating current 5°C according to IEC 60947	20.46 A
Rating current 50°C according to IEC 60947	16 A
Rating current 55°C according to IEC 60947	15.3 A
Rating current 60°C according to IEC 60947	14.56 A
Rating current 65°C according to IEC 60947	13.78 A
Rating current 70°C according to IEC 60947	12.96 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 capa- city Icu under 230V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capa- city Icu under 400V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capa- city 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 capa- city Icu under 220V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capa- city 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

1.1
1.2
1.5
1
70 mm
83 mm
70 mm
50 to 60 Hz
3.5 W
11.08 W
2.79 W
7 ms
4000
20000
20000 with screw
20000 with screw 2,8Nm
20000 with screw 2,8Nm NA
20000 with screw 2,8Nm N/ plastic
20000 with screw 2,8Nm NA plastic Blconnec
20000 with screv 2,8Nm NA plastic Blconnect
20000 with screw 2,8Nm N/ plastic Blconnect Yes
20000 with screw 2,8Nm NA plastic Blconnect Yes
20000 with screw 2,8Nm plastic Blconnect Yes Yes
20000 with screw 2,8Nm N/ plastic Blconnect Yes Yes Yes
20000 with screw 2,8Nm Plastic Blconnec Yes Yes 1 / 25 mm 1 / 35 mm
20000 with screv 2,8Nm N/ plastic Blconnect Yes Yes 1 / 25 mm 1 / 35 mm 1 / 35 mm
4000 20000 with screw 2,8Nm NA plastic Blconnect Yes Yes Yes 1 / 25 mm <sup>2</sup> 1 / 35 mm <sup>2</sup> 1 / 35 mm <sup>2</sup> 1 / 25 mm <sup>2</sup>

## Equipment

Standards	
Standard text	IEC 60947-2
Safety	
REACH conform	Να
RoHS conform	Yes
Halogen free	No
	-2570 °C
Use conditions Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2	-2570 °C
Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2	
Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I <sup>2</sup> t	:
Operating temperature Degree of pollution according to IEC 60664 /	

50 °C

## temperatur

Temperature of calibration