



NRN420



## MCB 4P 25kA C-20A 4M

### Technical properties

#### Architecture

Neutral position	without neutral
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Fixing mode	Din-Rail
Curve	C

#### Functions

Concurrently switching N-neutral	No
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#### Configuration

Number of modules	4
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#### Connectivity

Top connection alignment for modular devices	Aligned terminal
Bottom connection alignment for modular devices	Aligned terminal

#### Main electrical features

Rated operational voltage $U_e$	415 V
Type of supply voltage	AC
Frequency	50/60 Hz

#### Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Minimum threshold voltage ( $U_e$ min)	12 V

#### Electric current

Rated current	20 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 $I_n$
Magnetic regulating current	5 / 10 $I_n$
min/maxi threshold value of the DC magnetic operation	5 / 15 $I_n$
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 $I_n$
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 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
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	70 mm

#### Frequency

Frequency	50 to 60 Hz
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#### Power

Total power loss under IN	10.87 W
Power loss per pole at In	2.74 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	Blconnect
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes

#### Connection

Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm <sup>2</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm <sup>2</sup>

#### Equipment

With transparent product label holder	Yes
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#### Standards

Standard text	IEC 60947-2
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**Safety**

Protection index IP	IP20
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**Use conditions**

Operating temperature	-25...70 °C
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-25...80 °C