



NSN150

MCB 1P 15kA D-50A 1M

Technical properties

Architecture

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Fixing mode	Din-Rail
Curve	D

Functions

Concurrently switching N-neutral	No
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Configuration

Number of modules	1
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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 Ue	240 / 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 (Ue min)	12 V

Electric current

Rated current	50 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 In
Magnetic regulating current	10 / 14.4 In
min/maxi threshold value of the DC magnetic operation	10 / 30 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 In
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
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Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
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Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
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Correction factor of rating current for 3 devices placed side-by-side	0.95
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Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
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Correction factor of rating current for 6 devices placed side-by-side	0.85
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Correction factor of magnetic tripping with 100 Hz	1.1
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Correction factor of magnetic tripping with 200 Hz	1.2
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Correction factor of magnetic tripping with 400 Hz	1.5
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Correction factor of magnetic tripping with 60 Hz	1
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Dimensions

Depth of installed product	70 mm
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Height of installed product	83 mm
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Width of installed product	17.5 mm
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Frequency

Frequency	50 to 60 Hz
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Power

Total power loss under IN	4.7 W
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Power loss per pole at In	4.7 W
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Endurance

Electric endurance in number of cycles	4000
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Number of mechanical operations	20000
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Installation, mounting

Type of top connection for modular devices	with screw
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Tightening torque	2,8Nm
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Type of top rail clip for modular devices	NA
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Type of bottom rail clip for modular devices	plastic
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Type of Bottom Connection for modular devices	Blconnect
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Top removability for modular devices	Yes
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Bottom removability for modular devices	Yes
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Connection

Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm ²
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Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm ²
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Type of connection	with screw
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Subject to technical modifications

Equipment

With transparent product label holder	Yes
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Standards

European directive WEEE	concerned
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Safety

Protection index IP	IP20
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Use conditions

Operating temperature	-25...70 °C
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Degree of pollution according to IEC 60664 / IEC 60947-2	2
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Altitude	2000 m
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Air humidity protection	for all climates
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Storage/transport temperature	-25...80 °C
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