



NDN125A



MCB 1P 10kA D-25A 1M

Technical characteristics

Architecture

| | |
|---------------------------|-----------------|
| Neutral position | without neutral |
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Curve | D |

Functions

| | |
|----------------------------------|----|
| Concurrently switching N-neutral | No |
|----------------------------------|----|

Configuration

| | |
|-------------------|---|
| Number of modules | 1 |
|-------------------|---|

Connectivity

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

Main electrical features

| | |
|--|-------------|
| Rated short circuit breaking capacity I_{cn} AC according IEC60898-1 | 10 kA |
| Rated operational voltage U_e | 240 / 415 V |
| Type of supply voltage | AC |

Voltage

| | |
|--|--------|
| Rated insulation voltage | 500 V |
| Max operating voltage | 440 V |
| Rated impulse withstand voltage | 6000 V |
| Minimum threshold voltage (U_e min) | 12 V |

Electric current

| | |
|---|-------------------|
| Rated current | 25 A |
| Rated service breaking capacity I_{cs} AC according IEC 60898-1 | 7.5 kA |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 I_n |
| Magnetic regulating current | 10 / 14.4 I_n |
| min/maxi threshold value of the DC magnetic operation | 15 / 30 I_n |
| min/maxi threshold value of the DC thermal operation | 1.13 / 1.45 I_n |

| | |
|---|---------|
| Rating current -10°C according to IEC 60947 | 33.54 A |
| Rating current -15°C according to IEC 60947 | 34.16 A |
| Rating current -20°C according to IEC 60947 | 34.76 A |
| Rating current -25°C according to IEC 60947 | 35.36 A |
| Rating current -5°C according to IEC 60947 | 32.91 A |
| Rating current 0°C according to IEC 60947 | 32.27 A |
| Rating current 10°C according to IEC 60947 | 30.96 A |
| Rating current 15°C according to IEC 60947 | 30.28 A |
| Rating current 20°C according to IEC 60947 | 29.58 A |
| Rating current 25°C according to IEC 60947 | 28.87 A |
| Rating current 30°C according to IEC 60947 | 28.14 A |
| Rating current 35°C according to IEC 60947 | 27.39 A |
| Rating current 40°C according to IEC 60947 | 26.61 A |
| Rating current 45°C according to IEC 60947 | 25.82 A |
| Rating current 5°C according to IEC 60947 | 31.62 A |
| Rating current 50°C according to IEC 60947 | 25 A |
| Rating current 55°C according to IEC 60947 | 24.15 A |
| Rating current 60°C according to IEC 60947 | 23.27 A |
| Rating current 65°C according to IEC 60947 | 22.36 A |
| Rating current 70°C according to IEC 60947 | 21.41 A |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 10 kA |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 15 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 15 kA |
| Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 | 10 kA |
| Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 | 15 kA |
| Electric current / temperature | |
| Rating current -25°C | 31.41 A |
| Rating current -20°C | 30.89 A |
| Rating current -15°C | 30.35 A |
| Rating current -10°C | 29.8 A |
| Rating current -5°C | 29.24 A |
| Rating current 0°C | 28.68 A |
| Rating current 5°C | 28.1 A |
| Rating current 10°C | 27.51 A |
| Rating current 25°C | 25.65 A |
| Rating current 30°C | 25 A |
| Rating current 35°C | 24.33 A |
| Rating current 40°C | 23.65 A |
| Rating current 45°C | 22.94 A |
| Rating current 50°C | 22.21 A |

| | |
|---|-------------|
| Rating current 55°C | 21.46 A |
| Rating current 60°C | 20.68 A |
| Rating current 65°C | 19.87 A |
| Rating current 70°C | 19.02 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 | 1.1 |
| Dimensions | |
| Depth of installed product | 70 mm |
| Height of installed product | 83 mm |
| Width of installed product | 17.5 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Maximum power loss per pole according to the product standard | 4.5 W |
| Total power loss under IN | 3.37 W |
| Power loss per pole at In | 3.37 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 |
| Suitable for flush-mounting | Yes |
| Connection | |

| | |
|--|------------------------|
| Connection cross-section at output with screw, for flexible conductor | 1 / 25 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1 / 35 mm ² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 35 mm ² |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 25 mm ² |
| Downstream cage clamp delivery status | opened |
| Upstream cage clamp delivery status | opened |

Equipment

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|---------------------|-----|
| Can be accessorized | Yes |
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Standards

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|---------------|-----------------------------|
| Standard text | EN 60898-1 ; AS/NZS 60898-1 |
|---------------|-----------------------------|

Use conditions

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|--|-------------|
| 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 | 30 °C |
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