:hager

NF103A

## MCB 1P 6/10kA C-3A 1M

## Technical properties

## Architecture

Number of protected poles 1
Number of poles 1 P
Type of pole 1 P

Curve

## Functions

Concurrently switching N-neutral

## Configuration

Number of modules 1

## 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 <br> according IEC60898-1 | 6 kA |
| :--- | ---: |
| Rated operational voltage Ue | $230 / 400 \mathrm{~V}$ |
| Frequency | $50 / 60 \mathrm{~Hz}$ |
| Voltage |  |
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 4000 V |

## Electric current

Rated current ..... 3 A
Rated service breaking capacity Ics AC according IEC 60898-1 ..... 6 kA
$\mathrm{min} /$ maxi threshold value of the $A C$ thermal operation ..... $1.13 / 1.45 \mathrm{In}$
Magnetic regulating currrent ..... $5 / 10 \mathrm{In}$
$\mathrm{min} /$ maxi threshold value of the DCmagnetic operation$7 / 15 \ln$
$\mathrm{min} / \mathrm{maxi}$ threshold value of the DC thermal
$1.13 / 1.45 \mathrm{In}$
Breaking capacity on 1 pole for IT 400 V NF ..... 3 kARated short circuit breaking capacity Icnunder 230V AC according IEC60898-16 kA

Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2

Rated ultimate short-circuit breaking
capacity Icu under 415V AC IEC 60947-2

## Electric current / temperature

| Rating current $-25^{\circ} \mathrm{C}$ | 3.3 A |
| :--- | :---: |
| Rating current $-20^{\circ} \mathrm{C}$ | 3.3 A |
| Rating current $-15^{\circ} \mathrm{C}$ | 3.2 A |
| Rating current $-10^{\circ} \mathrm{C}$ | 3.2 A |
| Rating current $-5^{\circ} \mathrm{C}$ | 3.2 A |
| Rating current $0^{\circ} \mathrm{C}$ | 3.2 A |
| Rating current $5^{\circ} \mathrm{C}$ | 3.1 A |
| Rating current $10^{\circ} \mathrm{C}$ | 3.1 A |
| Rating current $15^{\circ} \mathrm{C}$ | 3.1 A |
| Rating current $20^{\circ} \mathrm{C}$ | 3.1 A |
| Rating current $25^{\circ} \mathrm{C}$ | 3 A |
| Rating current $30^{\circ} \mathrm{C}$ | 3 A |
| Rating current $35^{\circ} \mathrm{C}$ | 3 A |
| Rating current $40^{\circ} \mathrm{C}$ | 2.9 A |
| Rating current $45^{\circ} \mathrm{C}$ | 2.9 A |
| Rating current $50^{\circ} \mathrm{C}$ | 2.9 A |
| Rating current $55^{\circ} \mathrm{C}$ | 2.9 A |
| Rating current $60^{\circ} \mathrm{C}$ | 2.8 A |
| Rating current $65^{\circ} \mathrm{C}$ | 2.8 A |
| Rating current $70^{\circ} \mathrm{C}$ | 2.8 |

## Current correction factors

Correction factor of rating current for 2
devices placed side-by-side
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 ..... 1.5Correction factor of magnetic tripping with60 Hz

## Dimensions

| Depth of installed product | 70 mm |
| :--- | ---: |
| Height of installed product | 83 mm |
| Width of installed product | $\mathbf{1 7 . 5 \mathrm { mm }}$ |

## Frequency

Power

| Total power loss under IN | 1.9 W |
| :--- | ---: |
| Power loss per pole at In | 1.9 W |
| Endurance | 4000 |
| Electric endurance in number of cycles | 20000 |
| Number of mechanical operations | with screw |
| Installation, mounting | $2,8 \mathrm{Nm}$ |
| Type of top connection for modular devices | NA |
| Tightening torque | metallic |
| Type of top rail clip for modular devices | Noct |
| Type of bottom rail clip for modular devices | No |
| Type of Bottom Connection for modular |  |
| devices | No |

## Connection

Connection cross-section of input and
output with screws, for massive conductors $1 / 35 \mathrm{~mm}^{2}$

| Connection cross section of access and exit |
| :--- |
| with screws, for flexible conductor |

Type of connection with screw

## Standards

European directive WEEE not concerned

| Safety | IP20 |
| :--- | ---: |
| Protection index IP | No |
| REACH conform | Yes |
| RoHS conform | No |
| Halogen free |  |
| Use conditions | $-25 \ldots .0^{\circ} \mathrm{C}$ |
| Operating temperature |  |
| Degree of pollution according to IEC 60664 / | 2 |
| IEC 60947-2 | 2000 m |
| Class of energy limitation $I^{2 t}$ | for all climates |
| Altitude | $-25 \ldots 8{ }^{\circ} \mathrm{C}$ |

