



HNK630U

Moulded Case Circuit Breaker h800 3P 50kA 630A TM

Technical characteristics

Architecture

| | |
|-----------------|--------|
| Type of order | Toggle |
| Number of poles | 3 P |
| Type of pole | 3P3D |

Functions

| | |
|--------------------------------------|--------|
| Complete device with protection unit | Yes |
| Trip Unit | TM A/A |
| Integrated earth fault protection | No |

Configuration

| | |
|-------------------|----|
| Number of modules | 12 |
|-------------------|----|

Main electrical features

| | |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 690 V |
| Frequency | 50/60 Hz |

Voltage

| | |
|---------------------------------|-------|
| Rated insulation voltage | 800 V |
| Rated impulse withstand voltage | 8 kV |
| With under voltage release | No |

Electric current

| | |
|--|-----------------------------------|
| Rated current | 630 A |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 20 kA |
| Thermal protection nob setting xIN | 0.4 / 0.5 / 0.63 / 0.9 / 0.95 / 1 |
| Breaking capacity on 1 pole for IT 230V NF 60947-2 | 51 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 9 kA |
| Rated service breaking capacity Ics AC according IEC 60947-2 | 100 % |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 85 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 85 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2 | 45 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 | 1 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 1 |
| Correction factor of rating current for 6 devices placed side-by-side | 1 |

Power

| | |
|---------------------------------------|---------|
| Total power loss under I _N | 136.2 W |
| Power loss per pole at I _N | 45.4 W |

Tripping

| | |
|-------------------------------|-------------------------------|
| Trip mode | TM |
| Thermal protection trip time | 5 / 10 / 11 / 19 / 21 / 29 ms |
| Time of response when opening | 10 ms |

Electrical specifications

| | |
|--------------------------|---------------|
| Magnetic trip delay time | 100 to 200 ms |
|--------------------------|---------------|

Endurance

| | |
|--|------|
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations | 4000 |

Installation, mounting

| | |
|---|----|
| DIN rail mounting with optional adaptor | No |
|---|----|

Connection

| | |
|---|----------------------|
| Connection cross-sect. flexible conductor | 2x240mm ² |
| Connection cross-sect. rigid cable | 2x240mm ² |
| Connection | Front connection |

Settings

| | |
|---|---|
| Range of the magnetic adjustment | 3150 / 3780 / 4410 / 5040 / 5670 / 6300 A |
| Magnetic protection nob setting xI _N | 2.5 / 5 / 10 |
| Setting type I _N or I _{th} | I _r Th |

Equipment

| | |
|---|-----|
| Number of auxiliary contacts as normally closed contact | 0 |
| Number of auxiliary contacts as normally open contact | 0 |
| Number of auxiliary contacts as change-over contact | 0 |
| Motor drive optional | Yes |

Use cases

| | |
|-----------------|---|
| Category of use | A |
|-----------------|---|

Standards

| | |
|---------------|-------------|
| Standard text | IEC 60947-2 |
|---------------|-------------|

| | |
|-------------------------|-----------|
| European directive WEEE | concerned |
|-------------------------|-----------|

Use conditions

| | |
|-------------------------------|------------------|
| Operating temperature | -25...70 °C |
| Altitude | 2000 m |
| Air humidity protection | for all climates |
| Storage/transport temperature | -35...70 °C |