



HNK800U

## Moulded Case Circuit Breaker h800 3P 50kA 800A 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
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#### 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	800 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 <sub>N</sub>	172.8 W
Power loss per pole at I <sub>N</sub>	57.6 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
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**Endurance**

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

**Installation, mounting**

DIN rail mounting with optional adaptor	No
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**Connection**

Connection cross-sect. flexible conductor	2x240mm <sup>2</sup>
Connection cross-sect. rigid cable	2x240mm <sup>2</sup>
Connection	Front connection

**Settings**

Range of the magnetic adjustment	4000 / 4800 / 5600 / 6400 / 7200 / 8000 A
Magnetic protection nob setting xI <sub>N</sub>	2.5 / 5 / 10
Setting type I <sub>N</sub> or I <sub>th</sub>	I <sub>r</sub> 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
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**Standards**

Standard text	IEC 60947-2
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European directive WEEE	concerned
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**Use conditions**

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