Similar image
(Picture shows HNF990H)

MCCB h1600 3P 50kA 1250A LSI

Architecture

Type of order	Toggle
Type of case	Fixed built-in
Number of poles	3 P
Type of pole	3P3D

Functions

Complete device with protection unit	yes
Trip Unit	LSI
Integrated earth fault protection	no

Compatibility

Compatible with DIN rail mounting	no

Controls and indicators

Motor drive integrated	no

Main electrical features

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

Voltage

Rated insulation voltage	800 V
Rated impulse withstand voltage	8000 V
With under voltage release	no

Electric current

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	50 kA
Rated service breaking capacity Ics AC according IEC 60947-2	100 %
Breaking capacity on 1 pole with 230 V NF 60947-2	60 kA
Breaking capacity on 1 pole with 400 V NF 60947-2	9 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	100 kA

Technical Properties

Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	100 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	70 kA
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	45 kA
Thermal protection nob setting xIN	0,4/0,5/0,63/0,8/0,9/0,95/1

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

Power loss per pole at In	62,5 W
Power loss per pole at 0.63*In	24,8 W
Power loss per pole at 0.8*In	40 W
Total power loss under IN	187,5 W
Total power loss at 0.63*In	74,4 W
Total power loss at 0.8*In	120 W

Tripping

Tripmode	LSI
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

Tightening torque	65Nm
DIN rail mounting with optional adaptator	no

Connection

Connection cross-sect. rigid cable	3x240mm²
Connection cross-sect. flexible conductor	3x240mm²
Connection	Front connection
Type of connection	Terminal

Settings

Magnetic protection nob setting xIN	2,5/5/10
Setting type In or Ith	IrTh
Range of the magnetic adjustment	7000/8750/11200/14000/15000/15000/15000 A

Equipment

Motor drive optional	yes

Use cases

Category of use	A

Standards

Standard text	IEC 60947-2
European directive WEEE	concerned

Safety

Protection index IP	IP4X

Use conditions

Altitude	2000 m
Storage temperature	-35 to 70 °C
Air humidity protection	for all climates