



MCCB h1600 4P 50kA 1250A LSI

HNF981H

Architecture

Type of order	Toggle
Type of case	Fixed built-in
Number of poles	4 P
Type of pole	4P4D N:0;50;100%

Functions

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

Compatibility

Compatible with DIN rail mounting	no
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Controls and indicators

Motor drive integrated	no
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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
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	100 kA

Technical Properties

Rated ultimate short-circuit breaking capacity I _{cu} under 415V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 440V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 690V AC IEC 60947-2	45 kA
Thermal protection nob setting xI _N	0,4/0,5/0,63/0,8/0,9/0,95/1
Thermal setting current on neutral pole	0/0,5/1 I _N

Current correction factors

Correction factor of rating current for 2 devices placed 1 side-by-side

Correction factor of rating current for 3 devices placed 1 side-by-side

Correction factor of rating current for 4 and 5 devices 1 placed side-by-side

Correction factor of rating current for 6 devices placed 1 side-by-side

Power

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

Tripping

Trip mode	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
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Endurance

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

Installation, mounting

Tightening torque	65Nm
DIN rail mounting with optional adaptor	no

Connection

Connection cross-sect. rigid cable	3x240mm ²
Connection cross-sect. flexible conductor	3x240mm ²
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
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Use cases

Category of use	A
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Standards

Standard text	IEC 60947-2
European directive WEEE	concerned

Safety

Protection index IP	IP4X
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Use conditions

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