# Product data sheet HNF981H



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# MCCB h1600 4P 50kA 1250A LSI

# 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
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
Rated ultimate short-circuit breaking capacity lcu	100 kA

under 240V AC IEC 60947-2

Technical Properties	
Rated ultimate short-circuit breaking capacity Icu	50 kA
under 415V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	70 kA
under 440V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	45 kA
under 690V AC IEC 60947-2	
Thermal protection nob setting xIN	0,4/0,5/0,63/0,8/0,9/0,95/1
Thermal setting current on neutral pole	0/0,5/1 ln

#### **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 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
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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 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	7000/8750/11200/14000/15000/15
	000/15000 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