



HNF990H

MCCB h1600 3P 50kA 1600A LSI

Product Datasheet

Architecture

Type of order	Toggle
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
Companie with birtrain mounting	110

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	1600 A
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
Breaking capacity on 1 pole for IT 230V NF 60947-2	60 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	100 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	100 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	70 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 IN	168,9 W
Power loss per pole at In	56,3 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. flexible conductor	3x240mm²
Connection cross-sect. rigid cable	3x240mm²
Connection	Front connection
Type of connection	Terminal
Settings	
Range of the magnetic adjustment	8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A
Magnetic protection nob setting xIN	2,5 / 5 / 10
Setting type In or Ith	IrTh
Equipment	
Motor drive optional	yes
Use cases	
Category of use	Α



Standards	

IEC 60947-2
concerned
IP4X
-2570 °C
2000 m
for all climates
-3570 °C