



HNF981H

Moulded Case Circuit Breaker h1600 4P 50kA 1250A LSI

Technical properties

Type of order	Toggle
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
Configuration	
Number of modules	16
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	1250 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
Thermal setting current on neutral pole	0 / 0.5 / 1 In
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	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	187.5 W
Power loss per pole at In	62.5 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 Installation, mounting DIN rail mounting with optional adaptator	4000 No
Connection	
Connection cross-sect. flexible conductor	3x240mm²
Connection cross-sect. rigid cable	3x240mm²
Connection	Front connection
Settings	
Range of the magnetic adjustment	/ 15000 / 8750 / 11200 / 14000 / 15000 / 15000 A 15000 A
Magnetic protection nob setting xIN	2.5 / 5 / 10
Setting type In or Ith	IrTh
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	Ą

Standards

Standard text	IEC 60947-2
European directive WEEE	concerned
Use conditions	
Operating temperature	-2570 °C
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-3570 °C