HEF991H

Moulded Case Circuit Breaker h1600 4P 70kA 1600A LSI

Technical properties

Architecture

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
With integrated earth leakage 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	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
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	71 %
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	70 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	70 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

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

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	A

Standards

Standard text	IEC 60947-2

Use conditions

Operating temperature	-25…70 °C
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-35…70 °C