



HEF991H

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

**Technical properties**

**Architecture**

Number of poles 4 P

**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  $U_e$  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  $I_{cu}$  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  $I_n$

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  $I_{cs}$  AC according IEC 60947-2 71 %

Rated ultimate short-circuit breaking capacity  $I_{cu}$  under 230V AC IEC 60947-2 100 kA

Rated ultimate short-circuit breaking capacity  $I_{cu}$  under 240V AC IEC 60947-2 100 kA

Rated ultimate short-circuit breaking capacity  $I_{cu}$  under 400V AC IEC 60947-2 70 kA

Rated ultimate short-circuit breaking capacity  $I_{cu}$  under 415V AC IEC 60947-2 70 kA

Rated ultimate short-circuit breaking capacity  $I_{cu}$  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
<b>Power</b>	
Total power loss under IN	168.9 W
Power loss per pole at In	56.3 W
<b>Tripping</b>	
Tripmode	LSI
Thermal protection trip time	5 / 10 / 11 / 19 / 21 / 29 ms
Time of response when opening	10 ms
<b>Electrical specifications</b>	
Magnetic trip delay time	100 to 200 ms
<b>Endurance</b>	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
<b>Installation, mounting</b>	
DIN rail mounting with optional adaptor	No
<b>Connection</b>	
Type of connection	Terminal
<b>Settings</b>	
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
<b>Equipment</b>	
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
<b>Use cases</b>	
Category of use	A
<b>Standards</b>	
Standard text	IEC 60947-2
European directive WEEE	concerned
<b>Use conditions</b>	

Operating temperature	-25...70 °C
Altitude	2000 m
Storage/transport temperature	-35...70 °C