



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 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
<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