

# Product Datasheet

## HEF991H



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

#### Technical Features

##### Electric current

Rated current	1600 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2	100 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	100 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415 V AC IEC 60947-2	70 kA
Breaking capacity on 1-pole for AC 230 V IEC 60947-2	60 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	9 kA

##### Architecture

Number of poles	4
Control/operation element	Toggle
Device construction type	Fixed built-in

##### Capacity

Number of modules	16
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##### Tripping

Response time when opening	10 ms
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##### Settings

Magnetic protection knob setting xI <sub>N</sub>	2.5 5 10
Range of magnetic adjustment	8960 A 11200 A 14000 A 17920 A 19200 A 19200 A 19200 A
Thermal protection knob setting xI <sub>N</sub>	0.4 0.5 0.63 0.8 0.9 0.95 1
Adjustment range short-term delayed short-circuit release	0 - 0 A

##### Frequency

Frequency	50 - 60 Hz
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##### Installation, mounting

Nominal tightening torque	65 - 65 Nm
Mounting-/Connection Position	Front

##### Voltage

Rated impulse withstand voltage U <sub>imp</sub>	8000 V
Rated insulation voltage U <sub>i</sub>	800 V
Rated operational voltage U <sub>e</sub>	220 - 690 V

##### Functions

Trip unit	LSI
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##### Main electrical attributes

Magnetic protection trip time	100 - 200 ms
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##### Power

Total power loss under I <sub>N</sub>	168.90 W
Power loss per pole at I <sub>N</sub>	56.30 W

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### Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	4000

### Equipment

Number of auxiliary contacts as change-over contact	0
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0

### Safety

Ingress Protection (IP) class	IP4X
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### Use conditions

Operating temperature	-25 - 70 °C
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### Connection

Cross-section flexible conductor	3x 240 mm <sup>2</sup>
Cross-section rigid conductor	3x 240 mm <sup>2</sup>
Connector/plug type	Terminal

### Controls and indicators

Motor drive integrated	No
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### Compatibility

Suitable for DIN Rail	No
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### Power supply

Position power supply	Bidirectional
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