



HNF981H

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

**Technical Features**

**Electric current**

Rated current	1250 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	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415 V AC IEC 60947-2	50 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	7000 A
	8750 A
	11200 A
	14000 A
	15000 A
	15000 A
Thermal protection knob setting xI <sub>N</sub>	0.4
	0.5
	0.63
	0.8
	0.9
	0.95
Adjustment range short-term delayed short-circuit release	1
	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>	187.50 W
Power loss per pole at I <sub>N</sub>	62.50 W

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**Endurance**

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

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**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

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**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

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**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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**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes