



HEQ990LR

**Moulded Case Circuit Breaker h3+ PW1600 LSI3 3P3D 1600A 70kA FTC**

**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	70 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	70 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	19.2 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	19.2 kA
Rated short-time withstand current I <sub>cw</sub> t=1s at 800 V AC according to IEC 60947-2	19.2 kA

**Architecture**

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral

**Tripping**

Response time when opening	12 ms
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**Electric current**

Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	42 kA
Rated service breaking capacity I <sub>cs</sub> under 220 V AC according to IEC 60947-2	70 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	70 kA
Rated service breaking capacity I <sub>cs</sub> under 240 V AC according to IEC 60947-2	70 kA
Rated service breaking capacity I <sub>cs</sub> under 380 V AC according to IEC 60947-2	70 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	70 kA
Rated service breaking capacity I <sub>cs</sub> under 415 V AC according to IEC 60947-2	70 kA
Rated service breaking capacity I <sub>cs</sub> under 690 V AC according to IEC 60947-2	42 kA
Rated current 10°C according to IEC 60947	1600 A
Rated current 15°C according to IEC 60947	1600 A
Rated current 20°C according to IEC 60947	1600 A
Rated current 25°C according to IEC 60947	1600 A
Rated current 30°C according to IEC 60947	1600 A
Rated current at 35°C according to IEC 60947	1600 A
Rated current at 40°C according to IEC 60947	1600 A
Rated current 45°C according to IEC 60947	1600 A
Rated current 50°C according to IEC 60947	1590 A
Rated current 55°C according to IEC 60947	1540 A
Rated current at 60°C according to IEC 60947	1490 A
Rated current 70°C according to IEC 60947	1430 A
Rated current 65°C according to IEC 60947	1430 A

**Frequency**

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

Nominal tightening torque	50-50 Nm
Mounting-/Connection Position	Front

**Voltage**

Rated impulse withstand voltage U <sub>imp</sub>	8 kV
Rated insulation voltage U <sub>i</sub>	1000 V
Rated operational voltage U <sub>e</sub>	220 - 690 V

**Functions**

Trip unit	Sentinel LSI3
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**Power**

Total power loss under I <sub>N</sub>	129.6 W
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<b>Power</b>	
Power loss per pole at In	1.8 W
<b>Endurance</b>	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
<b>Equipment</b>	
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
<b>Safety</b>	
Ingress Protection (IP) class	IP20
<b>Use conditions</b>	
Operating temperature	-25 - 70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3
<b>Cover, door</b>	
Interlockable	Yes
<b>Connection</b>	
Connector/plug type	Terminal
<b>Cable</b>	
Cable material	Copper Aluminium
<b>Dimensions</b>	
Height	330 mm
Depth	198 mm
<b>Controls and indicators</b>	
Motor drive integrated	No
<b>Compatibility</b>	
Suitable for DIN Rail	No
Compatible with RDC AOB	No
Suitable for distribution board	Yes
<b>Power supply</b>	
Position power supply	Bidirectional
<b>Electrical protection</b>	
Long-time overload protection (ltd): delay (tr)	0.5 s 1 s 2 s 4 s 5 s 8 s 10 s 15 s 20 s 25 s
Short-time protection (std): delay (tsd)	50 ms 100 ms 200 ms 400 ms 600 ms
Instantaneous protection (li): dial setting coefficient	1.5 2 3 4 6 8 10 12 15

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**Sustainability**

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RoHS conform

Yes