



HMQ631NR

**Moulded Case Circuit Breaker h3+ PW1600 Energy LSIG 4P4D 630A 50kA FTC**

**Technical Features**

**Electric current**

Rated current	630 A
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**Architecture**

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

**Electric current**

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 240 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
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	30 kA
Rated service breaking capacity I <sub>cs</sub> under 220 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 240 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 690 V AC according to IEC 60947-2	30 kA
Rated current 10°C according to IEC 60947	630 A
Rated current 15°C according to IEC 60947	630 A
Rated current 20°C according to IEC 60947	630 A
Rated current 25°C according to IEC 60947	630 A
Rated current 30°C according to IEC 60947	630 A
Rated current at 35°C according to IEC 60947	630 A
Rated current at 40°C according to IEC 60947	630 A
Rated current 45°C according to IEC 60947	630 A
Rated current 50°C according to IEC 60947	630 A
Rated current 55°C according to IEC 60947	630 A
Rated current at 60°C according to IEC 60947	630 A
Rated current 65°C according to IEC 60947	630 A
Rated current 70°C according to IEC 60947	630 A

**Frequency**

Frequency	50 - 60 Hz
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**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

**Power**

Total power loss under I <sub>N</sub>	13.4 W
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**Functions**

Trip unit	Sentinel Energy LSIG
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**Endurance**

Electric endurance in number of cycles	4000
Number of mechanical operations	20000

**Safety**

Ingress Protection (IP) class	IP20
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**Installation, mounting**

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

**Cover, door**

Interlockable	Yes
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**Cable**

Cable material	Copper Aluminium
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**Compatibility**

Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes

**Dimensions**

Height	330 mm
Width	280 mm
Depth	198 mm

**Connectivity**

Type of connection	Bolt connection
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**Electrical protection**

Long-time overload protection (ltd): delay (tr)	0.5 s
	1 s
	1.5 s
	2 s
	2.5 s
	3 s
	3.5 s
	4 s
	4.5 s
	5 s
	5.5 s
	6 s
	6.5 s
	7 s
	7.5 s
	8 s
	8.5 s
	9 s
	9.5 s
	10 s
	10.5 s
	11 s
	11.5 s
	12 s
	12.5 s
	13 s
	13.5 s
	14 s
	14.5 s
	15 s
	15.5 s
	16 s
	16.5 s
	17 s
	17.5 s
	18 s
	18.5 s
	19 s
	19.5 s
	20 s
	20.5 s
	21 s
	21.5 s
	22 s
	22.5 s
	23 s
	23.5 s
	24 s
	24.5 s
	25 s

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**Electrical protection**

Short-time protection (std): delay (tsd)	50 ms	
	100 ms	
	150 ms	
	200 ms	
	250 ms	
	300 ms	
	350 ms	
	400 ms	
	450 ms	
	500 ms	
	550 ms	
	600 ms	
	Instantaneous protection (li): dial setting coefficient	1.5
		2
2.5		
3		
3.5		
4		
4.5		
5		
5.5		
6		
6.5		
7		
7.5		
8		
8.5		
9		
9.5		
10		
10.5		
11		
11.5		
12		
12.5		
13		
13.5		
14		
14.5		
15		

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**Sustainability**

RoHS conform	Yes
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