Product Datasheet
HMQ971NR



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Moulded Case Circuit Breaker h3+ PW1600 Energy LSIG 4P4D 1000A 50kA FTC

Technical Features

Electric current	
Rated current IN	1000 A
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 Icu under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2	30 kA
Rated service breaking capacity Ics under 220 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 690 V AC according to IEC 60947-2	30 kA
Rated current at 10°C according to IEC 60947	1000 A
Rated current at 15°C according to IEC 60947	1000 A
Rated current at 20°C according to IEC 60947	1000 A
Rated current at 25°C according to IEC 60947	1000 A
Rated current at 30°C according to IEC 60947	1000 A
Rated current at 35°C according to IEC 60947	1000 A
Rated current at 40°C according to IEC 60947	1000 A
Rated current at 45°C according to IEC 60947	1000 A
Rated current at 50°C according to IEC 60947	1000 A
Rated current at 55°C according to IEC 60947	1000 A
Rated current at 60°C according to IEC 60947	1000 A
Rated current at 65°C according to IEC 60947	1000 A
Rated current at 70°C according to IEC 60947	1000 A
Frequency	
Frequency	50 - 60 Hz
Voltage	
Rated impulse withstand voltage Uimp	8 kV
Rated insulation voltage Ui	1000 V
Rated operational voltage Ue	220 - 690 V
Power	
Power dissipation at IN	47.2 W
Functions	
Trip unit	Sentinel Energy LSIG
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Safety	
Ingress Protection (IP) class	IP20
Installation, mounting	
Nominal tightening torque	50-50 Nm
Mounting-/Connection Position	Front

Cover, door	
Interlockable	Yes
Cable	
Cable material	Copper Aluminium
Compatibility	
Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes
Data act compliance	
Is generating data	Yes
Data types	Alarms Basic information Device energy management Electrical measurement Detailed electrical measurement General diagnostics Analog input Network diagnostics Operational state On/Off status Software diagnostics
Data formats	MODBUS (RTU) MODBUS (TCP)
Estimated daily data volume	< 1 KB
Real time data generation	Yes
Data stored on device	Yes
Dimensions	
Height	330 mm
Width	280 mm
Depth	198 mm
Connectivity	
Type of connection	Bolt connection

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
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

Electrical protection	
Instantaneous protection (Ii): 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

Sustainability	
RoHS conform	Yes