



HMQ970NR

Moulded Case Circuit Breaker h3+ PW1600 Energy LSIG 3P3D 1000A 50kA FTC

Technical Features

Electric current

Rated current	1000 A
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Architecture

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

Electric current

Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 415 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2	30 kA
Rated service breaking capacity I _{cs} under 220 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 240 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 690 V AC according to IEC 60947-2	30 kA
Rated current 10°C according to IEC 60947	1000 A
Rated current 15°C according to IEC 60947	1000 A
Rated current 20°C according to IEC 60947	1000 A
Rated current 25°C according to IEC 60947	1000 A
Rated current 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 45°C according to IEC 60947	1000 A
Rated current 50°C according to IEC 60947	1000 A
Rated current 55°C according to IEC 60947	1000 A
Rated current at 60°C according to IEC 60947	1000 A
Rated current 65°C according to IEC 60947	1000 A
Rated current 70°C according to IEC 60947	1000 A

Frequency

Frequency	50 - 60 Hz
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Voltage

Rated impulse withstand voltage U _{imp}	8 kV
Rated insulation voltage U _i	1000 V
Rated operational voltage U _e	220 - 690 V

Power

Total power loss under I _N	47.2 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	210 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

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	

Sustainability

RoHS conform	Yes
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