



HMQ800FR

**Moulded Case Circuit Breaker h3+ PW1600 LI 3P3D 800A 50kA FTC**

**Technical Features**

**Electric current**

Rated current	800 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 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 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	19.2 kA
Breaking capacity on 1-pole for AC 400 V 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
----------------------------	-------

**Electric current**

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	800 A
Rated current 15°C according to IEC 60947	800 A
Rated current 20°C according to IEC 60947	800 A
Rated current 25°C according to IEC 60947	800 A
Rated current 30°C according to IEC 60947	800 A
Rated current at 35°C according to IEC 60947	800 A
Rated current at 40°C according to IEC 60947	800 A
Rated current 45°C according to IEC 60947	800 A
Rated current 50°C according to IEC 60947	800 A
Rated current 55°C according to IEC 60947	800 A
Rated current at 60°C according to IEC 60947	800 A
Rated current 70°C according to IEC 60947	800 A
Rated current 65°C according to IEC 60947	800 A

**Frequency**

Frequency	50 - 60 Hz
-----------	------------

**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 LI
-----------	-------------

**Power**

Total power loss under I <sub>N</sub>	23.6 W
Power loss per pole at I <sub>n</sub>	4.6 W

**Endurance**

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

**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

**Safety**

Ingress Protection (IP) class	IP20
-------------------------------	------

**Use conditions**

Operating temperature	-25 - 70 °C
-----------------------	-------------

**Cover, door**

Interlockable	Yes
---------------	-----

**Connection**

Connector/plug type	Terminal
---------------------	----------

**Cable**

Cable material	Copper Aluminium
----------------	---------------------

**Use conditions**

Degree of pollution according to IEC 60664 / IEC 60947-2	3
--	---

**Dimensions**

Height	330 mm
Width	210 mm
Depth	198 mm

**Controls and indicators**

Motor drive integrated	No
------------------------	----

**Compatibility**

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

**Power supply**

Position power supply	Bidirectional
-----------------------	---------------

**Connectivity**

Type of connection	Bolt connection
--------------------	-----------------

**Electrical protection**

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
	Instantaneous protection (li): dial setting coefficient
2	
3	
4	
6	
8	
10	
12	
15	

---

**Sustainability**

---

RoHS conform

Yes