

# Product Datasheet

## HMW251JR



HMW251JR

### Moulded Case Circuit Breaker h3+ P630 LSI 4P4D N0-50-100% 250A 50kA FTC

#### Technical Features

##### Electric current

Rated current	250 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	85 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	10 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	10 kA

##### Architecture

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

##### Tripping

Response time when opening	10 ms
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##### Electric current

Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	12 kA
Rated service breaking capacity I <sub>cs</sub> under 220 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity I <sub>cs</sub> under 240 V AC according to IEC 60947-2	85 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	12 kA
Rated current 10°C according to IEC 60947	250 A
Rated current 15°C according to IEC 60947	250 A
Rated current 20°C according to IEC 60947	250 A
Rated current 25°C according to IEC 60947	250 A
Rated current 30°C according to IEC 60947	250 A
Rated current at 35°C according to IEC 60947	250 A
Rated current at 40°C according to IEC 60947	250 A
Rated current 45°C according to IEC 60947	250 A
Rated current 50°C according to IEC 60947	250 A
Rated current 55°C according to IEC 60947	250 A
Rated current at 60°C according to IEC 60947	250 A
Rated current 70°C according to IEC 60947	250 A
Rated current 65°C according to IEC 60947	250 A

##### Settings

Ir1 current dial setting	90 A
	100 A
	110 A
	125 A
	140 A
	160 A
	180 A
	200 A
	225 A
	250 A
Adjustment range short-term delayed short-circuit release	122.85 - 2500.0 A

##### Frequency

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

Nominal tightening torque	18 - 18 Nm
Mounting-/Connection Position	Front

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### Voltage

Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V

### Functions

Trip unit	LSI
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### Power

Total power loss under IN	36.8 W
Power loss per pole at In	12.3 W

### 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	IP4X
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### Use conditions

Operating temperature	-25 - 70 °C
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### Connection

Connector/plug type	Terminal
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### Cable

Cable material	Copper
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### Use conditions

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

Height	260 mm
Width	185 mm
Depth	150 mm

### Controls and indicators

Motor drive integrated	No
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### Compatibility

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

### Power supply

Position power supply	Bidirectional
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### Electrical protection

Long-time overload protection (ltd): delay (tr)	0.5 s
	1.5 s
	2.5 s
	5 s
	7.5 s
	9 s
	10 s
	12 s
	14 s
	16 s
	Short-time protection (std): current (Isd)
	2
	3
	4
	5
	6
	7
	8
	10

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### Electrical protection

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Short-time protection (std): delay (tsd)	50 ms
	100 ms
	200 ms
	300 ms
	400 ms

Instantaneous protection (li): dial setting coefficient	3
	4
	5
	6
	7
	8
	10
	11
	12

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### Sustainability

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RoHS conform	Yes
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