

Specifications



Circuit Breaker Frame, UEM5Z1-100(MCCB)

Main

Range	UEM5Z1
Product Name	UEM5Z1
Device Short Name	UEM5Z1-100
Product or Component Type	Circuit breaker
Device Application	Distribution
Poles Description	3P
Rated Current [In]	100 A at 40 °C
Rated Operational Voltage[Ue]	400 V AC 50 Hz
Network Type	AC
Network Frequency	50 Hz
Suitability for Isolation	Yes conforming to EN/IEC 60947-2
Utilisation Category	Category A
Breaking Capacity	M、H
Rated Ultimate Short-Circuit Breaking Capacity [Icu]	M: 50 kA Icu at 400 V AC 50 Hz conforming to IEC 60947-2 H: 70 kA Icu at 400 V AC 50 Hz conforming to IEC 60947-2
Rated Service Short-Circuit Breaking Capacity [Ics]	M: 50 kA Ics at 400 V AC 50 Hz conforming to IEC 60947-2 H: 50 kA Ics at 400 V AC 50 Hz conforming to IEC 60947-2
Arcing Distance (mm)	≤50mm
Trip Unit Technology	Thermal-magnetic
Trip Unit Protection Functions	LSIP (overload long time delay + short circuit short time delay + short circuit instantaneous + pre-alarm protection)

Control Type	Operated by handle
	Operated by motorized operating mechanism
	Operated by rotary operating mechanism

Circuit Breaker Mounting Mode	Fixed
	Plug-in type

Complementary

Rated Insulation Voltage [Ui]	800 V AC 50Hz
Rated Impulse Withstand Voltage [Uimp]	8 kV
Mechanical Durability	8500 cycles
Electrical Durability	1500 cycles at 400 V In
Mounting Position	Horizontal and vertical flat on the back
Connection Pitch	30 mm
Long-Time Pick-up Adjustment Type Ir (thermal protection)	Adjustable
Long-Time Protection Pick-up Adjustment Range [Ir]	40A、 50A、 63A、 80A、 100A
Long-Time Protection Delay Adjustment Type tr	Adjustable
Long-Time Protection Delay Adjustment Range [tr]	12s、 60s、 80s、 100s、 OFF
Instantaneous Protection Pickup Adjustment Type li	Adjustable
Instantaneous Protection Pick-up Adjustment Range [li]	(3、 4、 5、 6、 7、 8、 9、 10、 12) xIn、 OFF
Short-Time Protection Pick-up Adjustment Type Isd	Adjustable
Short-Time Protection Pick-up Adjustment Range[Isd]	(2、 3、 4、 5、 6、 7、 8、 10、 12) xIr、 OFF
Short-Time Protection Delay Adjustment Type tsd	Adjustable
Short-Time Protection Delay Adjustment Range [tsd]	0.06s、 0.1s、 0.2s、 0.3s
Pre-alarm Protection Pick-up Adjustment Range [Ip]	(0.7、 0.8、 0.9、 1.0)xIr
Electrical Accessory Types	Alarm contact Shunt release Auxiliary contact Undervoltage release

Width	90mm (3P) 、 120mm (4P)
Height	155 mm
Depth	78 mm
Net Weight	1.6 kg (3P) /2.5 kg (4P)

Environment

Standards	EN/IEC 60947
Product Certifications	CCC CB
Pollution Degree	3 conforming to IEC 60664-1
Ambient Air Temperature for Operation	-25...70 °C
Ambient Air Temperature for Storage	-40...70 °C
Relative Humidity	0...95 % (25°C)
Operating Altitude	0...2000 m without derating 2000 m...4000 m with derating

Packing Units

Package	3P	4P
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package Height 1	15.6cm	15.6cm
Package Width 1	17.2cm	20.1cm
Package Length 1	20.1cm	20.2cm
Package Weight 1	1.95kg	2.89kg
Unit Type of Package 2	Box	
Number of Units in Package 2	8	8
Package Height 2	33.3cm	33.3cm
Package Width 2	35.5cm	41.3cm
Package Length 2	41.5cm	41.7cm
Package Weight 2	15.6kg	23kg

Offer Sustainability

China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
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