Product data sheet

Specifications



Circuit breaker frame, MasterPact MTZ2 16H2 drawout for MicroLogic X, 1600A, 100kA/415VAC (Icu), 3P

LV848274

Main

Range	MasterPacT
Product name	MasterPact MTZ2
Device short name	MTZ2 16 H2
Product or Component Type	Circuit breaker
Device Application	Power distribution protection
Poles description	3P
Control type	Without control unit
Product compatibility	control unit MicroLogic 2.0 X control unit MicroLogic 5.0 X control unit MicroLogic 6.0 X control unit MicroLogic 7.0 X control unit MicroLogic 2.0 Xi control unit MicroLogic 5.0 Xi control unit MicroLogic 6.0 Xi control unit MicroLogic 7.0 Xi
Line Rated Current	1600 A 104 °F (40 °C)
Breaking capacity code	H2 100 kA 415 V AC
[Ue] rated operational voltage	690 V AC 50/60 Hz
Suitability for isolation	Yes EN/IEC 60947-2
Selectivity category	Category B
Control Type	Push-button
Mounting Mode	Drawout

Complementary

Breaking capacity	100 kA 220/415 V AC 50/60 Hz 100 kA 440 V AC 50/60 Hz 85 kA 500/525 V AC 50/60 Hz 85 kA 660/690 V AC 50/60 Hz
[Ics] rated service breaking capacity	100 kA 220/415 V AC 50/60 Hz 100 kA 440 V AC 50/60 Hz 85 kA 500/525 V AC 50/60 Hz 85 kA 660/690 V AC 50/60 Hz
[Icw] rated short-time withstand current	85 kA 0.5 s 85 kA 1 s 50 kA 3 s
[Icm] rated short-circuit making capacity	220 kA 220/415 V AC 50/60 Hz 220 kA 440 V AC 50/60 Hz 187 kA 500/525 V AC 50/60 Hz 187 kA 660/690 V AC 50/60 Hz
Integrated instantaneous protection (DIN in kA peak)	171…209 kA

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Sensor rating	800 A 1000 A 1250 A 1600 A
[Ui] rated insulation voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	12 kV
Power dissipation in W	390 W
Maximum breaking time	25 ms
Maximum closing response time	70 ms
Mounting Support	Rails Base plate
Upside connection	Front Rear
Downside connection	Front Rear
Connection pitch	4.5 in (115 mm)
Mechanical durability	25000 cycles with periodic preventive maintenance
Electrical durability	10000 cycles 440 V AC 50/60 Hz EN/IEC 60947-2 10000 cycles 690 V AC 50/60 Hz EN/IEC 60947-2 AC-23A 10000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3 AC-23A 10000 cycles 690 V AC 50/60 Hz EN/IEC 60947-3 AC-3 6000 cycles 440/690 V AC 50/60 Hz EN/IEC 60947-3
Height	Drawout circuit breaker with chassis: 17.3 in (439 mm) Drawout circuit breaker without chassis: 11.8 in (300 mm)
Width	Drawout circuit breaker with chassis: 17.4 in (441 mm) Drawout circuit breaker without chassis: 14.9 in (378 mm)
Depth	Drawout circuit breaker with chassis: 15.9 in (403 mm) Drawout circuit breaker without chassis: 11.8 in (300 mm)
Net Weight	198.4 lb(US) (90 kg)
Standards	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-2 Annex H IEC 61557-12
Product Certifications	CE IECEE CB Scheme

Environment

IP degree of protection	IP30 conforming to EN 60529
Pollution degree	3 IEC 60947-1
Ambient Air Temperature for Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Operating altitude	0...6561.68 ft (0...2000 m) without derating 2000...5000 m with derating

Ordering and shipping details

GTIN	3606480808814

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	12.008 in (30.5 cm)
Package 1 Width	11.6 in (29.5 cm)
Package 1 Length	14.8 in (37.5 cm)
Package weight(Lbs)	103.695 lb(US) (47.035 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**2 822 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**493 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**11 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**12 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**2 145 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**161 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards**
SCIP Number	**F31d8a4d-e9cb-4afc-bf2c-5965742ce772**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**
Halogen content performance	**Product contains halogen above thresholds**
PVC free	**Yes**
Silicon free	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**71**
Circularity Profile	End of Life Information
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**