Product data sheet

Specifications



Circuit breaker frame, MasterPact MTZ1 16H2 drawout for MicroLogic X, 1600A, 50kA/415VAC (Icu), 3P

LV847241

Main

Range	MasterPacT
Product name	MasterPact MTZ1
Device short name	MTZ1 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 50 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	50 kA 220/415 V AC 50/60 Hz 50 kA 440 V AC 50/60 Hz 42 kA 500/525 V AC 50/60 Hz 42 kA 660/690 V AC 50/60 Hz
[Ics] rated service breaking capacity	50 kA 220/415 V AC 50/60 Hz 50 kA 440 V AC 50/60 Hz 42 kA 500/525 V AC 50/60 Hz 42 kA 660/690 V AC 50/60 Hz
[Icw] rated short-time withstand current	42 kA 0.5 s 42 kA 1 s 24 kA 3 s
[Icm] rated short-circuit making capacity	105 kA 220/415 V AC 50/60 Hz 105 kA 440 V AC 50/60 Hz 88 kA 500/525 V AC 50/60 Hz 88 kA 660/690 V AC 50/60 Hz
Integrated instantaneous protection (DIN in kA peak)	81…99 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	460 W
Maximum breaking time	25 ms
Maximum closing response time	50 ms
Mounting Support	Rails Base plate
Upside connection	Front Rear
Downside connection	Front Rear
Connection pitch	2.8 in (70 mm)
Mechanical durability	12500 cycles with periodic preventive maintenance
Electrical durability	3000 cycles 690 V AC 50/60 Hz EN/IEC 60947-2 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-2 AC-23A 3000 cycles 690 V AC 50/60 Hz EN/IEC 60947-3 AC-23A 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3 AC-3 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3
Height	Drawout circuit breaker with chassis: 12.7 in (322 mm) Drawout circuit breaker without chassis: 10.2 in (259.5 mm)
Width	Drawout circuit breaker with chassis: 11.3 in (288 mm) Drawout circuit breaker without chassis: 9.3 in (236.5 mm)
Depth	Drawout circuit breaker with chassis: 11.5 in (291 mm) Drawout circuit breaker without chassis: 8.2 in (207.5 mm)
Net Weight	66.1 lb(US) (30 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	3606480816253

Packing Units

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

Package 1 Height	9.8 in (25.0 cm)
Package 1 Width	15.7 in (40.0 cm)
Package 1 Length	15.7 in (40.0 cm)
Package weight(Lbs)	50.856 lb(US) (23.068 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	**2 847 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**236 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**6 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**23 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**2 516 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**66 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	**44ce05ea-25e9-435c-886d-b1162ae4666b**
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	**No**
Silicon free	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**73**
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.**