Product datasheet

Specifications



Circuit breaker frame, MasterPacT MTZ2 16H2, for MicroLogic Active, 1600A, 100kA/440VAC 50/60Hz (Icu), 3P, drawout

LV948274

Main

Range	MasterPacT
Product name	MasterPacT MTZ2 Active
Product or component type	Circuit breaker
Device short name	MTZ2 16 H2
Device application	Power distribution protection
Poles description	3P
Control unit	Without control unit
Product compatibility	control unit MicroLogic Active 1.0 E control unit MicroLogic Active 1.0 EP control unit MicroLogic Active 2.0 A control unit MicroLogic Active 2.0 AP control unit MicroLogic Active 2.0 E control unit MicroLogic Active 2.0 EP control unit MicroLogic Active 5.0 A control unit MicroLogic Active 5.0 AP control unit MicroLogic Active 5.0 E control unit MicroLogic Active 5.0 EP control unit MicroLogic Active 6.0 A control unit MicroLogic Active 6.0 AP control unit MicroLogic Active 6.0 E control unit MicroLogic Active 6.0 EP
[In] rated current	1600 A at 40 °C
Performance type	H2 100 kA 440 V AC
[Ue] rated operational voltage	690 V AC 50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Selectivity category	Category B
Control type	Push-button
Mounting mode	Drawout

Complementary

[Icu] rated ultimate short-circuit breaking capacity	100 kA at 220/415 V AC 50/60 Hz 100 kA at 440 V AC 50/60 Hz 85 kA at 525 V AC 50/60 Hz 85 kA at 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	100 kA at 220/415 V AC 50/60 Hz 100 kA at 440 V AC 50/60 Hz 85 kA at 525 V AC 50/60 Hz 85 kA at 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

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

[Icm] rated short-circuit making capacity	220 kA 220/415 V AC at 50/60 Hz 187 kA 440 V AC at 50/60 Hz 187 kA 525 V AC at 50/60 Hz 187 kA 690 V AC at 50/60 Hz
Integrated instantaneous protection (DIN in kA peak)	171…209 kA
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
Power dissipation per pole	130 W
Maximum breaking time	25 ms
Maximum closing response time	70 ms
Mounting support	Base plate Rails
Upside connection	Front Rear
Downside connection	Front Rear
Connection pitch	115 mm
Mechanical durability	25000 cycles with maintenance
Electrical durability	10000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 10000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2
Height (H)	Drawout circuit breaker with chassis: 439 mm Drawout circuit breaker without chassis: 301 mm
Width (W)	Drawout circuit breaker with chassis: 441 mm Drawout circuit breaker without chassis: 378 mm
Depth (D)	Drawout circuit breaker with chassis: 403 mm Drawout circuit breaker without chassis: 331 mm
Net weight	90 kg
Standards	EN/IEC 60947-1 EN/IEC 60947-2
Product certifications	CE CCC EAC

Environment

IP degree of protection	IP3X conforming to EN/IEC 60529
IK degree of protection	IK07 conforming to EN/IEC 62262
Pollution degree	3 conforming to IEC 60664-1
Ambient air temperature for operation	-25…70 °C
Temperature derating table	40 °C (1600 A) 45 °C (1600 A) 50 °C (1600 A) 55 °C (1600 A) 60 °C (1600 A) 65 °C (1600 A) 70 °C (1520 A)
Ambient air temperature for storage	-40…85 °C

Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2 cm
Package 1 Width	1 cm
Package 1 Length	2 cm
Package 1 Weight	10 g

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	**2 787 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**474 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**11 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**11 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**2 117 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**173 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	**584555c5-79df-4e54-a0be-1388f30e1540**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
Halogen-free status	**Product contains halogen above thresholds**
PVC free	**Yes**
Silicone-free	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**92**
End of life manual availability	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**