Product data sheet
Characteristics

LV847157
Circuit breaker frame, MasterPact MTZ1 16H2 fixed for MicroLogic X, 1600A, 50kA/415VAC (Icu), 4P



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	4P
Neutral position	Left
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
[In] rated current	1600 A at 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 conforming to EN/IEC 60947-2
Utilisation category	Category B
Control type	Push-button
Mounting mode	Fixed

Complementary

Breaking capacity	50 KA at 220/415 V AC 50/60 Hz 50 KA at 440 V AC 50/60 Hz 42 KA at 500/525 V AC 50/60 Hz 42 KA at 660/690 V AC 50/60 Hz
[Ics] rated service breaking capacity	50 KA at 220/415 V AC 50/60 Hz 50 KA at 440 V AC 50/60 Hz 42 KA at 500/525 V AC 50/60 Hz 42 KA at 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 at 50/60 Hz 105 KA 440 V AC at 50/60 Hz 88 KA 500/525 V AC at 50/60 Hz 88 KA 660/690 V AC at 50/60 Hz
Integral instant protection	81…99 KA

Circuit breaker CT 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	220 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	70 Mm
Mechanical durability	12500 Cycles with periodic preventive maintenance
Electrical durability	3000 Cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2 6000 Cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 AC-23A: 3000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-3 AC-23A: 6000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-3 AC-3: 6000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-3
Height	301 Mm
Width	346 Mm
Depth	209 Mm
Net weight	18 Kg
Standards	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-2 Annex H IEC 61557-12
Product certifications	CE[RETURN]IECEE CB Scheme

Environment

IP degree of protection	IP30 conforming to EN 60529
Pollution degree	3 conforming to IEC 60947-1
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-40…85 °C
Operating altitude	0...2000 m without derating 2000...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	40.0 Cm
Package 1 Width	40.0 Cm
Package 1 Length	30.0 Cm
Package 1 Weight	21.506 Kg

Offer Sustainability

Recyclability potential, in %	73
Total lifecycle Carbon footprint	1 466 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	179.0417094017094
Carbon footprint of the manufacturing phase [A1 to A3]	179 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4.311863247863248
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	17.818427350427353
Carbon footprint of the installation phase [A5]	18 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1213.9690167224082
Carbon footprint of the use phase [B2, B3, B4, B6]	1 214 kg CO2 eq.
Mercury free	Yes

Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	50.53545299145299
Carbon footprint of the end-of-life phase [C1 to C4]	51 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1466
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 c
SCIP Number	44ce05ea-25e9-435c-886d-b1162ae4666b
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
Halogen-free status	Product contains halogen above thresholds
PVC free	No
Silicone-free	No
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised