Product data sheet
Characteristics

LV848056
Circuit breaker frame, MasterPact MTZ2 20N1 fixed for MicroLogic X, 2000A, 42kA/415VAC (Icu), 3P



Main

Range	MasterPacT
Product name	MasterPact MTZ2
Device short name	MTZ2 20 N1
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
[In] rated current	2000 A at 40 °C
Breaking capacity code	N1 42 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	42 KA at 220/415 V AC 50/60 Hz 42 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	42 KA at 220/415 V AC 50/60 Hz 42 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 22 KA 3 s
[Icm] rated short-circuit making capacity	88 KA 220/415 V AC at 50/60 Hz 88 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
Circuit breaker CT rating	1000 A 1250 A 1600 A 2000 A
[Ui] rated insulation voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	12 KV
Power dissipation in W	250 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	115 Mm
Mechanical durability	20000 Cycles with periodic preventive maintenance
Electrical durability	AC-3: 6000 cycles 440/690 V AC 50/60 Hz conforming to EN/IEC 60947-3 6000 Cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2 8000 Cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 AC-23A: 6000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-3 AC-23A: 8000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-3
Height	352 Mm

Width	422 Mm
Depth	300 Mm
Net weight	50 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	29.5 Cm
Package 1 Width	30.5 Cm
Package 1 Length	37.5 Cm
Package 1 Weight	47.252 Kg

Offer Sustainability

Recyclability potential, in %	71
Total lifecycle Carbon footprint	1 807 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	314.40585365853656
Carbon footprint of the manufacturing phase [A1 to A3]	314 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	6.808390243902439
Carbon footprint of the distribution phase [A4]	7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	7.8965853658536584
Carbon footprint of the installation phase [A5]	8 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1374.7969593495936
Carbon footprint of the use phase [B2, B3, B4, B6]	1 375 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	102.9541463414634
Carbon footprint of the end-of-life phase [C1 to C4]	103 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1807
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	F31d8a4d-e9cb-4afc-bf2c-5965742ce772
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	Yes
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