Product data sheet
Characteristics

LV848286
Circuit breaker frame, MasterPact MTZ2 20N1 drawout 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	Drawout

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	470 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	Drawout circuit breaker with chassis: 439 mm Drawout circuit breaker without chassis: 300 mm
Width	Drawout circuit breaker with chassis: 441 mm Drawout circuit breaker without chassis: 378 mm
Depth	Drawout circuit breaker with chassis: 403 mm Drawout circuit breaker without chassis: 300 mm
Net weight	90 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	30.5 Cm
Package 1 Width	29.5 Cm
Package 1 Length	37.5 Cm
Package 1 Weight	48.422 Kg

Offer Sustainability

Recyclability potential, in %	71
Total lifecycle Carbon footprint	3 299 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	524.009756097561
Carbon footprint of the manufacturing phase [A1 to A3]	524 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	11.347317073170732
Carbon footprint of the distribution phase [A4]	11 kg CO2 eq.
Carbon footprint of the installation phase [A5]	13.160975609756097
Carbon footprint of the installation phase [A5]	13 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2578.5638211382116
Carbon footprint of the use phase [B2, B3, B4, B6]	2 579 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	171.59024390243903
Carbon footprint of the end-of-life phase [C1 to C4]	172 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	3299
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 and

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised