Product data sheet
Characteristics

C40F31M320
Circuit breaker, ComPacT NSX400F, 36kA/415VAC, 3 poles, MicroLogic 1.3M trip unit 320A



Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX400F
Product or component type	Circuit breaker
Device application	Motor protection
Poles description	3P
Protected poles description	3D
[In] rated current	320 A at 65 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
Breaking capacity	40 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 20 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA Icu at 240 V AC 50/60 Hz conforming to UL 60947-4-1 35 KA Icu at 480 V AC 50/60 Hz conforming to UL 60947-4-1 20 KA Icu at 600 V AC 50/60 Hz conforming to UL 60947-4-1
Breaking capacity code	F 36 kA 415 V AC
Trip unit name	MicroLogic 1.3 M
Trip unit technology	Electronic
Trip unit protection functions	SI
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
[Ics] rated service breaking capacity	40 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 10 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	15000 Cycles
Electrical durability	12000 Cycles at 440 V In/2 6000 Cycles at 440 V In 6000 Cycles at 690 V In/2 3000 Cycles at 690 V In
Power dissipation per pole	12.29 W
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front
Connection pitch	45 Mm
Protection type	S : for short time short-circuit protection I : for instantaneous short-circuit protection
Trip unit rating	320 A at 65 °C
Short-time pick-up adjustment type Isd	Adjustable 9 settings

[Isd] short-time pick-up adjustment range	1600 A 1920 A 2440 A 2560 A 2880 A 3200 A 3520 A 3840 A 4160 A
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	4800 A
Earth-leakage protection	Without
Zone selective interlocking ZSI	Without
Number of slots	6 slot(s)
Local signalling	Flashing LED (green) for ready to operate
Width	140 Mm
Height	255 Mm
Depth	110 Mm
Net weight	6.05 Kg

Environment

Standards	EN/IEC 60947-2
Overvoltage category	III
Electrical shock protection class	Class II on front face
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-50…85 °C
Relative humidity	0…95 %
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	15.0 Cm
Package 1 Width	15.5 Cm
Package 1 Length	29.0 Cm
Package 1 Weight	5.624 Kg
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Height	30.0 Cm
Package 2 Width	40.0 Cm
Package 2 Length	60.0 Cm
Package 2 Weight	12.089 Kg

Offer Sustainability

Recyclability potential, in %	56
Total lifecycle Carbon footprint	247 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	35.46583695265219
Carbon footprint of the manufacturing phase [A1 to A3]	35 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.8996097543609824
Carbon footprint of the distribution phase [A4]	0.9 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.5873666358134568
Carbon footprint of the installation phase [A5]	0.6 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	198.5344

Carbon footprint of the use phase [B2, B3, B4, B6]	199 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	11.05579494482022
Carbon footprint of the end-of-life phase [C1 to C4]	11 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	247
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	25ca3248-85d0-423a-a9d8-5b7aeb52e7b6
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, which
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