Product data sheet
Characteristics

C63F3TM500D
Circuit breaker, ComPacT NSX630F DC, 36kA/750VDC, 3 poles, TM-DC trip unit 500A



Main

Range	ComPacT
Product name	ComPacT NSX DC
Device short name	NSX630F DC
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	500 A at 40 °C
[Ue] rated operational voltage	750 V DC
Network type	DC
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
Breaking capacity	36 KA Icu at 24...125 V DC 1 pole conforming to IEC 60947-2 36 KA Icu at 250 V DC 1 pole conforming to IEC 60947-2 36 KA Icu at 500 V DC 2 poles in series conforming to IEC 60947-2 36 KA Icu at 750 V DC 3 poles in series conforming to IEC 60947-2
Breaking capacity code	F 36 kA 750 V DC
Trip unit name	TM-DC
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	750 V DC conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 KV conforming to IEC 60947-2
[Ics] rated service breaking capacity	36 KA at 24...125 V DC conforming to IEC 60947-2 36 KA at 250 V DC conforming to IEC 60947-2 36 KA at 500 V DC conforming to IEC 60947-2 36 KA at 750 V DC conforming to IEC 60947-2
Mechanical durability	5000 Cycles
Electrical durability	2000 Cycles at 750 V In/2 1000 Cycles at 750 V In
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front
Connection pitch	45 Mm

Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	500 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.7...1 x In
Long time delay adjustment type	Fixed
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	2.5...5 x In
Earth-leakage protection	Without
Number of slots	6 slot(s)
Width	140 Mm
Height	255 Mm
Depth	110 Mm
Net weight	8.0 Kg

Environment

Standards	EN/IEC 60947-2
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	14.700 Cm
Package 1 Width	20.000 Cm
Package 1 Length	29.100 Cm
Package 1 Weight	5.350 Kg
Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	30 Cm
Package 2 Width	40 Cm
Package 2 Length	60 Cm
Package 2 Weight	16.700 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	12
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	78.800 Kg

Offer Sustainability

Recyclability potential, in %	59
Total lifecycle Carbon footprint	1 624 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	35.152196364637845
Carbon footprint of the manufacturing phase [A1 to A3]	35 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.6995961167722391
Carbon footprint of the distribution phase [A4]	0.7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.45705590746350866
Carbon footprint of the installation phase [A5]	0.5 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1577.093215138312

Carbon footprint of the use phase [B2, B3, B4, B6]	1 577 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	10.9423781327458
Carbon footprint of the end-of-life phase [C1 to C4]	11 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1624
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	E01033b9-a29d-4247-893c-b0642e7209e8
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, w
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No
End of life manual availability	No need of specific recycling operations
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