Product datasheet





Circuit breaker, ComPacT NSX630F, 36kA/415VAC, 3 poles, MicroLogic 2.3 trip unit 630A

C63F32D630

Main

ComPacT new generation	
ComPacT NSX new generation	
NSX630F	
Circuit breaker	
Distribution	
3P	
3D	
630 A at 40 °C	
690 V AC 50/60 Hz	
AC	
50/60 Hz	
Yes conforming to EN/IEC 60947-2	
Category A	
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 20 kA at 600 V AC 50/60 Hz conforming to UL 508	
F 36 kA 415 V AC	
MicroLogic 2.3	
Electronic	
on functions LSol	
Toggle	
Fixed	

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz	
[Uimp] rated impulse withstand voltage	8 kV	
[lcs] rated service short-circuit	40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2	
breaking capacity	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	8000 cycles at 440 V In/2 4000 cycles at 440 V In 6000 cycles at 690 V In/2 2000 cycles at 690 V In	
Power dissipation per pole	39.69 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	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection	
Trip unit rating	630 A at 40 °C	
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings	
[Ir] long-time protection pick-up adjustment range	250630 A	
Long-time protection delay adjustment type tr	Fixed	
[tr] long-time protection delay adjustment range	400 s at 1.5 x lr 16 s at 6 x lr 11 s at 7.2 x lr	
thermal memory	20 minutes before and after tripping	
Short-time protection pick-up adjustment type Isd	Adjustable 9 settings	
[Isd] Short-time protection pick- up adjustment range	1.510 x lr	
Short-time protection delay adjustment type tsd	Fixed	
Instantaneous protection pick-up adjustment type li	Fixed	
[li] instantaneous protection pick- up adjustment range	6900 A	
Earth-leakage protection	Without	
Zone selective interlocking ZSI	Without	
Number of slots for electrical auxiliaries	6 slot(s)	
Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload	
Width (W)	140 mm	
Height (H)	255 mm	
Depth (D)	110 mm	
Net weight	6.2 kg	

Environment

Standards	EN/IEC 60947-2	
Overvoltage category	Class II	
Electrical shock protection class	Class II	
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	-2570 °C	
Ambient air temperature for storage	-5085 °C	
Relative humidity	095 %	
Operating altitude	02000 m without derating 2000 m5000 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	5.728 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	12.308 kg



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Transparency RoHS/REACh

Well-being performance

⊘	Mercury Free	
⊘	Rohs Exemption Information Yes	
⊘	Pvc Free	
⊘	Halogen Free Plastic Parts Product	

Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	