

Product data sheet

Specifications



circuit breaker Vigicompact NS630N - STR23SE - 630A - 4 poles 4d - 300..30000mA

32934

ⓘ Discontinued

Main

Range Of Product	Compact NS100...630
Product Or Component Type	Circuit breaker
Device Short Name	Compact NS630N
Circuit Breaker Name	Vigicompact NS630N
Device Application	Distribution
Poles Description	4P
Protected Poles Description	3t 4t 3t + N/2
Neutral Position	Left
Network Type	AC
Network Frequency	50/60 Hz
[In] Rated Current	500 A at 65 °C 630 A at 40 °C
[Ui] Rated Insulation Voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947-2
[Ue] Rated Operational Voltage	440 V AC 50/60 Hz conforming to IEC 60947-2
Breaking Capacity Code	N
Breaking Capacity	85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] Rated Service Breaking Capacity	85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Suitability For Isolation	Yes conforming to IEC 60947-2
Utilisation Category	Category A
Trip Unit Name	STR23SE
Trip Unit Technology	Electronic
Trip Unit Rating	630 A

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Protection Type	Instantaneous short-circuit protection Protection of the fourth pole Overload protection (long time) Short time short-circuit protection Earth-leakage protection
Earth-Leakage Add-On Module Name	MB
Earth-Leakage Protection	With
Pollution Degree	3 conforming to IEC 60947

Complementary

Control Type	Toggle
Mounting Mode	Fixed
Mounting Support	Backplate
Upside Connection	Front
Downside Connection	Front
Circuit Breaker Ct Rating	630 A
Mechanical Durability	15000 cycles
Electrical Durability	4000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 8000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection Pitch	45 mm
Local Signalling	Positive contact indication
Neutral Protection Setting	No protection 1 x Ir 0.5 x Ir
Long Time Pick-Up Adjustment Type Ir	Adjustable 48 settings
Long Time Pick-Up Adjustment Range	0.4...1 x In
Long Time Delay Adjustment Type	Fixed
[Tr] Long-Time Delay Adjustment Range	90...180 s 1.5 x Ir 3.2...5 s 7.2 x Ir 5...7.5 s 6 x Ir
Short-Time Pick-Up Adjustment Type Isd	Adjustable 8 settings
[Isd] Short-Time Pick-Up Adjustment Range	2...10 x Ir
Short-Time Delay Adjustment Type	Fixed
[Tsd] Short-Time Delay Adjustment Range	0.04...0.06 s
Instantaneous Pick-Up Adjustment Type Ii	Fixed
Instantaneous Pick-Up Adjustment Range	11 x In
Earth-Leakage Protection Class	Class A
Residual Earth-Leakage Sensitivity Adjustment Type	Adjustable
[Iōn] Residual Earth-Leakage Sensitive Adjustment	30 A 10 A 0.3 A 1 A 3 A
Residual Earth-Leakage Time Delay Adjustment Type	Adjustable
Display Type	LED
Height	355 mm

Width	185 mm
Depth	110 mm

Environment

Standards	IEC 60947-2
Product Certifications	ASTA ASEFA LCIE KEMA
Ip Degree Of Protection	IP40 conforming to IEC 60529
Ik Degree Of Protection	IK07 conforming to EN 50102
Ambient Air Temperature For Operation	-25...70 °C
Ambient Air Temperature For Storage	-50...85 °C

Contractual warranty

Warranty	18 months
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