



Main

Range	Compact
Range of product	Compact NS100...630
Product or component type	Circuit breaker
Product name	Compact NS
Device short name	Vigicompact NS100N
Circuit breaker name	Vigicompact NS100N
Device application	Distribution
Poles description	4P
Protected poles description	4t 3t + N/2 3t
Neutral position	Left
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	100 A 65 °C 100 A 40 °C
[U _i] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[U _{imp}] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[U _e] rated operational voltage	250 V DC conforming to IEC 60947-2 277 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	N
Breaking capacity	8 kA I _{cu} at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 22 kA I _{cu} at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA I _{cu} at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA I _{cu} at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA I _{cu} at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 85 kA I _{cu} at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 600 V AC 50/60 Hz conforming to UL 508 25 kA at 480 V AC 50/60 Hz conforming to UL 508 35 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 8 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to UL 508
[I _{cs}] rated service breaking capacity	I _{cs} 10 kA 600 V AC 50/60 Hz conforming to UL 508 I _{cs} 22 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 I _{cs} 25 kA 480 V AC 50/60 Hz conforming to UL 508

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

Ics 25 kA 500 V AC 50/60 Hz conforming to IEC 60947-2
 Ics 35 kA 440 V AC 50/60 Hz conforming to IEC 60947-2
 Ics 35 kA 480 V AC 50/60 Hz conforming to NEMA AB1 HIC
 Ics 36 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2
 Ics 8 kA 600 V AC 50/60 Hz conforming to NEMA AB1 HIC
 Ics 8 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2
 Ics 85 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2
 Ics 85 kA 240 V AC 50/60 Hz conforming to NEMA AB1 HIC
 Ics 85 kA 240 V AC 50/60 Hz conforming to UL 508

Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	STR22SE
Trip unit technology	Electronic
Trip unit rating	100 A (20 °C) 90 A (70 °C) 95 A (60 °C)
Protection type	Instantaneous short-circuit protection Short time short-circuit protection Overload protection (long time)
Earth-leakage add-on module name	MH
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
Mechanical durability	50000 cycles
Electrical durability	30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 50000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Neutral protection setting	1 x Ir 0.5 x Ir No protection
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 I _{sd}	Adjustable 8 settings
[I _{sd}] short-time pick-up adjustment range	2...10 x Ir
Short-time delay adjustment type	Fixed
[T _{sd}] short-time delay adjustment range	0.04...0.06 s
Instantaneous pick-up adjustment type I _i	Fixed
Instantaneous pick-up adjustment range	>= 11 x In
Earth-leakage protection class	Class A
Residual earth-leakage sensitivity adjustment type	Adjustable
[I _{Δn}] residual earth-leakage sensitive adjustment	0.03 A 0.3 A 10 A 1 A

3 A

Residual earth-leakage time delay adjustment type	Adjustable
Display type	LED
Height	236 mm
Width	105 mm
Depth	86 mm
Compatibility code	NS100

Environment

Standards	IEC 60947-2
Product certifications	ASTA KEMA LCIE ASEFA
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 period	18 months
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Product Life Status

END-OF-SALE NOTICE

29980