



Main

Range	Compact
Product name	Compact NSX
Product or component type	Circuit breaker
Device short name	Compact NSX630HB2
Device application	Motor
Poles description	3P
Protected poles description	3t
Network type	AC
Network frequency	50/60 Hz
[In] rated current	500 A (65 °C) 630 A (40 °C)
[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ue] rated operational voltage	690 V AC 50/60 Hz
Breaking capacity code	HB2 (100 kA) AC
Breaking capacity	100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	Ics 100 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 100 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 100 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	Micrologic 6.3 E-M
Trip unit technology	Electronic
Trip unit protection functions	LSIG
Trip unit rating	500 A (65 °C)
Protection type	Ground fault protection Instantaneous short-circuit protection

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

	Overload protection (long time) Short time short-circuit protection
Pollution degree	3 conforming to IEC 60664-1
Complementary	
Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	15000 cycles
Electrical durability	2000 cycles 690 V In conforming to IEC 60947-2 4000 cycles 440 V In conforming to IEC 60947-2 6000 cycles 690 V In/2 conforming to IEC 60947-2 8000 cycles 440 V In/2 conforming to IEC 60947-2
Connection pitch	45 mm
Local signalling	LED 95 % I _{th} LED ready
Motor tripping class	10 20 30 5
Complementary motor protection	Phase unbalance Protracted starting time Stalled rotor Underload
Long time pick-up adjustment type I _r	Adjustable 9 settings
Long time pick-up adjustment range	250...500 A
Long time delay adjustment type	Adjustable
[T _r] long-time delay adjustment range	10 s 7.2 x I _r 10 120 s 1.5 x I _r 5 20 s 7.2 x I _r 20 240 s 1.5 x I _r 10 26 s 6 x I _r 20 30 s 7.2 x I _r 30 38 s 6 x I _r 30 480 s 1.5 x I _r 20 5 s 7.2 x I _r 5 720 s 1.5 x I _r 30 13.5 s 6 x I _r 10 6.5 s 6 x I _r 5
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type I _{sd}	Adjustable 9 settings
[I _{sd}] short-time pick-up adjustment range	5...13 x I _r
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type I _i	Fixed
Instantaneous pick-up adjustment range	6500 A
Ground-fault pick-up adjustment type	Adjustable 9 settings
Ground-fault time delay adjustment type -t _g	Adjustable 5 settings
[T _g] ground-fault time delay adjustment range	0...0.4 s
[I _g] ground-fault pick-up adjustment range	100...500 A
Communication of data	Demand current and power Energy metering Instantaneous and demand values Maintenance indicators Maximeters/Minimeters Power quality

Protection and alarm settings
 Time-stamped histories and event tables
 Phase sequence
 Thermal image function

Display type	LCD display
Type of measurement	Energy meter
Electrical data recording	Maintenance indicators
Height	255 mm
Width	140 mm
Depth	110 mm
Product weight	6.2 kg

Environment

Overvoltage category	Class II
Electrical shock protection class	Class II
Standards	EN/IEC 60947
Product certifications	CCC Marine EAC
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-35...70 °C
Ambient air temperature for storage	-55...85 °C

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0819 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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