C25V46E100

Circuit breaker, ComPacT NSX250HB1, 75kA/690VAC, 4 poles, MicroLogic 6.2E trip unit 100A





Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX250HB1
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	4D 3D + OSN 3D + N/2 3D
Neutral position	Left
[In] rated current	100 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[lcu] rated ultimate short-circuit breaking capacity	85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	HB1 75 kA 690 V AC
Trip unit name	MicroLogic 6.2 E
Trip unit technology	Electronic
Trip unit protection functions	LSIG
Control type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

800 V AC 50/60 Hz
8 kV
85 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
20000 cycles
20000 Cycles at 440 V In/2 10000 Cycles at 440 V In 10000 Cycles at 690 V In/2 5000 cycles at 690 V In
2.7 W
Backplate
Horizontal and vertical Flat on the back
Front

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. This documentation is not integrated to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Downside connection	Front
Connection pitch	35 mm
Protection type	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection
Trip unit rating	100 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	40100 A
Long-time protection delay adjustment type tr	Adjustable
[tr] long-time protection delay adjustment range	15400 S at 1.5 x lr 0.516 S at 6 x lr 0.3511 s at 7.2 x lr
Neutral protection settings	0.5 x Ir (3D + N/2) 1 x Ir (4D) 1.6 x Ir (3D + OSN) No protection (3D)
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable
[Isd] Short-time protection pick-up adjustment range	1.510 x lr
Short-time protection delay adjustment type tsd	Adjustable 5 settings
[tsd] Short-time protection delay adjustment range	00.4 S I²t=off 0.10.4 s I²t=on
Instantaneous protection pick-up adjustment type li	Adjustable
[li] instantaneous protection pick-up adjustment range	1.515 x ln
Ground-fault protection pick-up adjustment type Ig	Adjustable 9 settings
[lg] ground-fault protection pick-up adjustment range	0.41 x In for In = 40 A 0.21 x In for In > 40 A Ig enable on/off
Ground-fault protection time delay adjustment type tg	Adjustable 5 settings
[tg] ground-fault protection time delay adjustment range	00.4 S I²t=off 0.10.4 s I²t=on
Earth-leakage protection	Without
Zone selective interlocking ZSI	With
Number of slots for electrical auxiliaries	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Display type	LCD display
Type of measurement	Energy meter
Communication of data	Time-stamped histories and event tables Demand current and power Protection and alarm settings Power quality Energy metering Instantaneous and demand values Maximeters/Minimeters Maintenance indicators
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.8 kg

Environment

Standards	EN/IEC 60947
Product certifications	EAC[RETURN]Marine[RETURN]CCC
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	-4085 °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	14.0 cm
Package 1 Width	15.0 cm
Package 1 Length	20.0 cm
Package 1 Weight	2.65 kg
Unit Type of Package 2	S03
Number of Units in Package 2	3
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.95 kg

Offer Sustainability

Offer Sustainability		
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant with Exemptions	
Mercury free	Yes	
China RoHS Regulation	[™] China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	