Product data sheet
Characteristics

LV430800
Circuit breaker, ComPact NSX160H, 70kA/415VAC, MicroLogic 2.2 trip unit 160A, 4 poles 4d

Important message: This product has been switched to new ComPacT range and is no longer commercialized.



Commercial status
End of Commercialisation : DEC 25, 2023

⚠ End of Commercialisation

Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100...250
Device short name	NSXm 160H
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	4t 3t 3t + N/2
Neutral position	Left
[In] rated current	160 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
Breaking capacity	10 KA at 600 V AC 50/60 Hz conforming to UL 508 85 KA at 240 V AC 50/60 Hz conforming to UL 508 65 KA at 480 V AC 50/60 Hz conforming to UL 508 10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	H 70 kA 415 V AC
Trip unit name	MicroLogic 2.2
Trip unit technology	Electronic
Trip unit protection functions	LSoI
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
[Ics] rated service breaking capacity	10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 100 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	40000 Cycles
Electrical durability	7500 Cycles at 690 V In 15000 Cycles at 690 V In/2 20000 Cycles at 440 V In 40000 Cycles at 440 V In/2
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	35 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	160 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	63...160 A
Long time delay adjustment type	Fixed
[tr] long-time delay adjustment range	11 S at 7.2 x Ir 16 S at 6 x Ir 400 S at 1.5 x Ir
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type Isd	Adjustable 9 settings
[Isd] short-time pick-up adjustment range	1.5...10 x Ir
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	2400 A
Earth-leakage protection	Without
Neutral protection setting	0.5 x Ir (3t + N/2) 1 x Ir (4t) No protection (3t)
Zone selective interlocking ZSI	Without
Number of slots	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Width	140 Mm
Height	161 Mm
Depth	86 Mm
Net weight	2.6 Kg

Environment

Standards	EN/IEC 60947
Product certifications	CCC[RETURN]EAC[RETURN]Marine
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	-25…70 °C
Ambient air temperature for storage	-50…85 °C

Relative humidity	0…95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.500 Cm
Package 1 Width	18.040 Cm
Package 1 Length	19.000 Cm
Package 1 Weight	2.958 Kg

Offer Sustainability

Total lifecycle Carbon footprint	386 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15.4335453659
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.6433866439
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.310965161
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	369.6218971429
Carbon footprint of the use phase [B2, B3, B4, B6]	370 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.478229239
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	386
SCIP Number	811c5f45-220d-4e22-b512-f9d771b72680
EU RoHS Directive	Compliant By Exemption
End of life manual availability	End Of Life Information
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. - Block

LV430800 may be replaced by any of the following products:



C16H42D160

Circuit breaker, ComPacT NSX160H, 70kA/415VAC, 4 poles, MicroLogic 2.2 trip unit 160A

Qty 1

Substitution date: |