Product data sheet
Characteristics

C16F44V160
Circuit breaker, ComPacT NSX160F, 36kA/415VAC, 4 poles, MicroLogic Vigi 4.2 trip unit 160A



Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX160F
Product or component type	Earth leakage circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	4D 3D + N/2 3D
Neutral position	Left
[In] rated current	160 A at 40 °C
[Ue] rated operational voltage	440 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	85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 440 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 22 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 8 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA Icu at 240 V AC 50/60 Hz conforming to UL 60947-4-1 35 KA Icu at 480 V AC 50/60 Hz conforming to UL 60947-4-1 10 KA Icu at 600 V AC 50/60 Hz conforming to UL 60947-4-1
Breaking capacity code	F 36 kA 415 V AC
Trip unit name	MicroLogic 4.2
Trip unit technology	Electronic
Trip unit protection functions	LSoIR
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	500 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
[Ics] rated service breaking capacity	85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 8 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	40000 Cycles
Electrical durability	40000 Cycles at 440 V In/2 20000 Cycles at 440 V In 15000 Cycles at 690 V In/2 7500 Cycles at 690 V In
Power dissipation per pole	12.3 W N 12.3 W L1 and L3 10 W L2
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
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 R : for earth-leakage 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	400 S at 1.5 x Ir 16 S at 6 x Ir 11 S at 7.2 x Ir
Neutral protection setting	0.5 x Ir (3D + N/2) 1 x Ir (4D) No protection (3D)
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type Isd	Adjustable
[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	Integrated
Earth-leakage protection class	Class A
Residual earth-leakage sensitity adjustment type	Adjustable
[IΔn] residual earth-leakage sensitive adjustment	30 MA 100 MA 300 MA 500 MA 1 A 3 A 5 A
Operating mode	OFF using the IΔn rotary switch
Residual earth-leakage time delay adjustment type	Adjustable
[Δt] residual earth-leakage time delay adjustment	0 Ms 60 Ms 150 Ms 500 Ms 1 S
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 60947-2
Overvoltage category	IV
Electrical shock protection class	Class II on front face
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	14.200 Cm
Package 1 Width	14.700 Cm
Package 1 Length	19.300 Cm
Package 1 Weight	2.548 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	10.593 Kg

Offer Sustainability

Recyclability potential, in %	55
Total lifecycle Carbon footprint	213 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	21.94885251798561
Carbon footprint of the manufacturing phase [A1 to A3]	22 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3386844244604317
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.21936741007194244
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	186.12736
Carbon footprint of the use phase [B2, B3, B4, B6]	186 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	4.5688345323741
Carbon footprint of the end-of-life phase [C1 to C4]	5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	213
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	1cc6e020-e2e4-4d89-9339-61a460082111
REACh Regulation	Reference contains Substances of Very High Concern above the threshold

EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No
Updatability	No
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised