Product data sheet
Characteristics

A9D31620
Residual current breaker with overcurrent protection (RCBO), Acti9 iDPN N Vigi, 1P+N, 20A, C curve, 6000A, AC type, 30mA



Main

Range	Acti9
Product name	Acti9 iDPN Vigi
Product or component type	Residual current breaker with overcurrent protection (RCBO)
Device short name	iDPN N Vigi
Device application	Distribution
Poles description	1P + N
Number of protected poles	1
Neutral position	Left
[In] rated current	20 A
Network type	AC
Network frequency	50 Hz
Trip unit technology	Thermal-magnetic
Curve code	C
Earth-leakage sensitivity	30 MA
Suitability for isolation	Yes conforming to EN/IEC 60947-2

Complementary

Device location in system	Outgoer
[Ue] rated operational voltage	230...240 V AC 50 Hz
Magnetic tripping limit	5...10 x In
Residual current tripping technology	Voltage independent
Earth-leakage protection time delay	Instantaneous
Earth-leakage protection class	Type AC
Breaking capacity	6000 A Icn at 230...240 V AC 50 Hz conforming to EN/IEC 61009-2-1
[Ics] rated service breaking capacity	6000 A 100 % x Icn at 230...240 V AC 50 Hz conforming to EN/IEC 61009-2-1
Rated breaking and making capacity	Idm 6000 A at 230...240 V AC 50 Hz conforming to EN/IEC 61009-2-1
Limitation class	3 conforming to EN/IEC 61009-2-1
[Ui] rated insulation voltage	400 V AC 50 Hz
[Uimp] rated impulse withstand voltage	4 KV
Contact position indicator	Yes
Control type	Toggle
Local signalling	ON, OFF, fault trip
Mounting mode	Clip-on
Mounting support	DIN rail
Comb busbar and distribution block compatibility	Top or bottom: YES
Connection pitch	9 Mm between phase and neutral

9 mm pitches	4
Height	85 Mm
Width	36 Mm
Depth	73 Mm
Net weight	125 G
Colour	White
Mechanical durability	20000 Cycles
Electrical durability	20000 Cycles
Locking options description	Padlocking device
Connections - terminals	Single terminal top or bottom 1…16 mm² rigid Single terminal top or bottom 1…10 mm² flexible Single terminal top or bottom 1…10 mm² flexible with ferrule
Wire stripping length	15 Mm for top or bottom connection
Tightening torque	2 N.M top or bottom
Earth-leakage protection	Integrated

Environment

Standards	EN/IEC 61009-2-1
Product certifications	VDE[RETURN]GOST
IP degree of protection	IP20 conforming to IEC 60529 IP40 (modular enclosure) conforming to IEC 60529
Pollution degree	3
Overvoltage category	III conforming to IEC 60364
Electromagnetic compatibility	8/20 µs impulse withstand, 250 A conforming to EN/IEC 61009-2-1
Tropicalisation	2 conforming to IEC 60068-1
Relative humidity	95 % at 55 °C
Ambient air temperature for operation	-5…60 °C
Ambient air temperature for storage	-40…85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.0 Cm
Package 1 Width	8.0 Cm
Package 1 Length	10.0 Cm
Package 1 Weight	211 G
Unit Type of Package 2	S03
Number of Units in Package 2	54
Package 2 Height	30.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	11.835 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	432
Package 3 Height	44.4 Cm
Package 3 Width	80 Cm
Package 3 Length	120 Cm
Package 3 Weight	106.680 Kg

Offer Sustainability

Recyclability potential, in %	50
Total lifecycle Carbon footprint	4 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.9874614576889849
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.040125674427049667
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.

Carbon footprint of the installation phase [A5]	0.0421662565219554
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2.281161069221214
Carbon footprint of the use phase [B2, B3, B4, B6]	2 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.2530984478017136
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	4
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
SCIP Number	Ed70c451-eb98-4beb-bfa0-d83cf974f40d
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
OECD PFAS Regulation	Item contains PFAS Chemicals
Ship Recycling Directive	Reportable
POP Directive	No POPs
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised