

Product datasheet

Specifications



Residual current breaker with overcurrent protection (RCBO), Square D QOvs, 1P+Ns, 20A, C curve, 10000A, AC type, 30mA

QO120C10RCBO30F

Main

Circuit breaker application	Distribution
Range	Square D
product name	QOvs RCBO
Product or component type	Residual current breaker with overcurrent protection (RCBO)
Poles description	1P + Ns
[In] rated current	20 A at 40 °C
Earthing system	TN
Curve code	C
Earth-leakage sensitivity	30 mA
Breaking capacity	10000 A Icn at 230/240 V AC 50/60 Hz

Complementary

Number of protected poles	1
Device location in system	Outgoer
Network frequency	50/60 Hz
network type	AC
Trip unit technology	Thermal-magnetic
[Ue] rated operational voltage	230/240 V AC 50/60 Hz
Residual current tripping technology	Voltage dependent functional earth
Earth-leakage protection time delay	Instantaneous
Earth-leakage protection class	Type AC
[Icw] rated short-time withstand current	Icw: 250 A during 8/20 µs impulse withstand
[Ics] rated service breaking capacity	7500 A at 230/240 V AC 50/60 Hz
Electrical insulation class	Class II
Limitation class	3
[Ui] rated insulation voltage	400 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	4 kV
Surge current	250 A
Suitability for isolation	Yes
Contact position indicator	Yes

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

control type	Toggle
local signalling	ON/OFF indication
Mounting mode	Plug-on
Mounting support	Socket
Comb busbar and distribution block compatibility	NO
Height	110 mm
Width	19 mm
Depth	85 mm
Net weight	186 g
Colour	Black
Mechanical durability	20000 cycles
Electrical durability	5000 cycles
Provision for padlocking	Non padlockable
Connections - terminals	Plug-in connector (top) Tunnel type terminal (bottom) 1...16 mm² rigid without cable end Tunnel type terminal (bottom) 1...10 mm² with cable end Tunnel type terminal (bottom) 1...10 mm² flexible without cable end
Wire stripping length	Power circuit: 15 mm for bottom connection
Tightening torque	Power circuit: 2 N.m bottom
Earth-leakage protection	Integrated

Environment

Standards	IEC 61009-2-2 IEC 61009-1 AS/NZS 61009.1 BS EN 61009-1
IP degree of protection	IP20
Tropicalisation	2
Relative humidity	95 % at 55 °C
Ambient air temperature for operation	-15...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	10.3 cm
Package 1 Width	14.3 cm
Package 1 Length	2.7 cm
Package 1 Weight	211 g
Unit Type of Package 2	S01
Number of Units in Package 2	17
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm

Package 2 Weight	3.587 kg
Unit Type of Package 3	S02
Number of Units in Package 3	34
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	7.174 kg

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
--	-----

Packaging without single use plastic	Yes
--------------------------------------	-----

EU RoHS Directive	Compliant with Exemptions
-------------------	---------------------------

SCIP Number	9a51c76a-1b6a-4c6b-be51-2aebaefb053b
-------------	--------------------------------------

REACH Regulation	REACH Declaration
------------------	-----------------------------------

China RoHS Regulation	China RoHS declaration
-----------------------	--

Use Again

Repack and remanufacture

Circularity Profile	No need of specific recycling operations
---------------------	--

WEEE



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

No