

Residual Current Device

Multi 9

DPN Vigi



The DPN Vigi is a one-piece residual current device used for the complete protection of final circuits (overcurrents and earth faults).


Operation

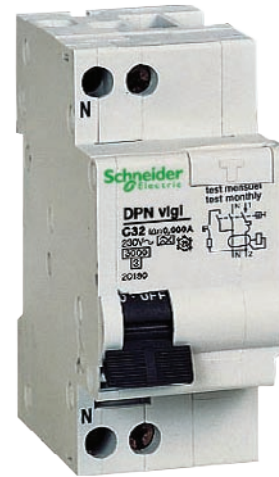
The DPN Vigi is a small-sized (36mm) residual current device with:

- > One protected pole (phase) with thermal and magnetic protection against overloads and short circuits.
- > One unprotected pole (neutral) with neutral isolation.
- > Earth leakage protection:
 - protection of persons against indirect contact and against direct contact (30 mA),
 - the 30 mA version ensures discrimination with the 300 mA "IS" residual current devices, residual current circuit-breakers and selective earth leakage protection devices placed upstream,
 - Type A.

Advantages

A complete residual current device range:

- > Conformity with standard AS/NZS 61009.
- > A single and identical breaking capacity:
 - rated breaking capacity (I_{cn}) identical to the rated residual current breaking and making capacity ($I_{\Delta n}$).
- > Protected against nuisance tripping.
- > The same add-on auxiliaries as C60 and ID: MN, MN , MX, OF, SD.
- > Add-on accessories.



The range

Auxiliaries



OF



SD



MX



MN or MN 



Residual current device



DPN Vigi

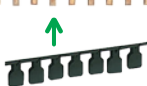
Accessories



Insulated connector



Comb busbars



Tooth caps

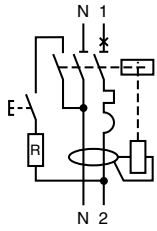


Padlocking device

Schneider
Electric

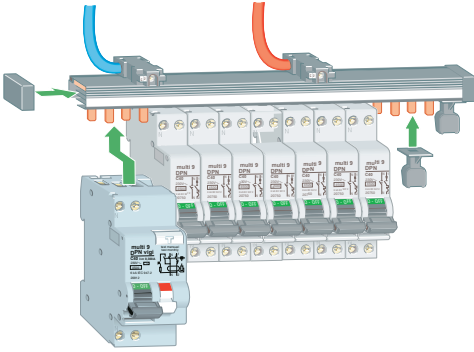
Choice table

Type	Width in mod. of 9 mm	Rating (A)	Cat. no.
C curve DPN Vigi			
1P + N 30 mA	4	6	19771
		10	19772
		16	19774
		20	19775
		25	19776
		32	19777
		40	19778



Type	Number of feeders	Cat. no.
comb busbar		
1P + N	13	14880
1P + N (bag of 2)	24	14890
25 mm ² insulated connector (bag of 4)		14885
padlocking device (bag of 2)		26970

Upstream connection with 80/100 A comb busbar



Environment

- > Tropicalisation: treatment 2 (relative humidity: 95% at 55°C).
- > IP2x degree of protection.
- > Operating temperature: -5°C to +60°C.
- > Storage temperature: -40°C to +70°C.

Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.

Implementation

- > Designed for installation in modular enclosures and switchboards.
- > Easy mounting on symmetrical rail with bistable lock.
- > Easy connection using serrated tunnel terminals with flap.
- > Captive screws with mixed +/- indent.
- > Simplified clip-on combination of circuit-breaker with auxiliaries.
- > Use of comb busbars to simplify circuit-breaker connection.

Accessories

Comb busbar

- > Acceptable current 80 A with 1 supply point. 100 A with 2 supply points.
- > The comb busbars allow several devices to be quickly supplied with power.
- > They can themselves be supplied with power:
 - either directly via the device terminals by 16 mm² cable,
 - or via 25mm² connectors (14885).

Clip-on marker strips

- > Marking above the downstream terminals (4 markers max.).

Padlocking device

- > This allows the circuit-breakers to be locked in "open" or "closed" position.

Technical data

Electrical data

- > Ratings: 6 to 40 A.
- > Voltage rating: 230 V AC.
- > Breaking capacity:
 - rated breaking capacity (I_{cn}): 6000 A,
 - rated phase-earth residual current breaking and making capacity (I Δ m): 6000 A,
 - limitation class: 3.
- > Tripping curve: C curve, magnetic releases operate between 5 and 10 I_n.
- > Electrical durability: (O/C cycle) \leq 20 A: 20000, 25 A: 15000, 32/40 A: 10000.
- > Test button minimum operating threshold: 115 V AC.

Mechanical data

- > Fast closing.
- > Isolation with positive break indication.
- > Mechanical durability: 20000 (O/C cycles).
- > Connection by tunnel terminals for cables up to 16mm².
- > Screw type: Pozidrive No.2.
- > Dimensions (mm): w = 36, h = 81, d = 70.
- > Weight: 190g.

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