Compact residual current circuit breaker DCP N Vigi

RCBO 6000 A

PB104620-40



PB104621-40



Function

■ The DCP N Vigi compact residual current circuit breaker provides a complete protection of final circuits (overcurrents and insulation faults):
□ protection of people against electric shocks by direct contacts (30 mA),
□ protection of people against electric shocks by indirect contacts (300 mA),
□ protection of installations from fire hazards (300 mA).
■ Display of earth fault on the front panel by position of toggle.

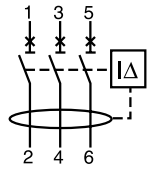
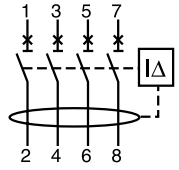
The "Type A" range has been designed to maintain a network with optimum safety and continuity of service:
■ in installations disturbed by:
□ electronic loads, rectifiers, instruments, switch mode power supplies, variable speed controllers...
■ in disturbed networks with risk of nuisance tripping due to
□ transient voltage surges :
- lightning stroke,
- switchgear operating on the network...,
□ sinusoidal AC or continuous pulsed residual currents, whether they are applied quickly or increased slowly,
□ low temperatures : -25°C.

Conformity with standards

■ International standard IEC 61009-1 and IEC 60947-2 for breaking capacity.
■ European standard EN 61009-1 and EN 60947-2 for breaking capacity.
■ National standard*.

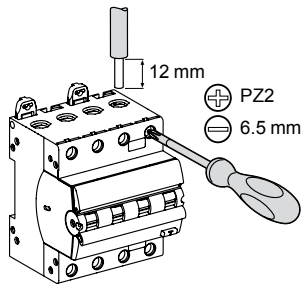
Catalogue numbers

DCP N Vigi

				Type AC		Type A	Width in 9-mm modules
3P	**Curve C**		**Sensitivity (IΔn)**	**30 mA**	**300 mA**	**30 mA**	
DB122605 		Rated current (In)	10 A	-	-	**MGN19772**	6
			16 A	-	-	**MGN19774**	
			20 A	-	-	**MGN19775**	
			25 A	-	-	**MGN19776**	
			32 A	-	-	**MGN19777**	
4P	**Curve B**		**Sensitivity (IΔn)**	**30 mA**	**300 mA**	**30 mA**	
DB122606 		Rated current (In)	16 A	-	-	**MGN19744**	8
			20 A	-	-	**MGN19745**	
			25 A	-	-	**MGN19746**	
			32 A	-	-	**MGN19747**	
	Curve C		**Sensitivity (IΔn)**	**30 mA**	**300 mA**	**30 mA**	
		Rated current (In)	6 A	**MGN19721**	**MGN19731**	-	8
			10 A	**MGN19722**	**MGN19732**	**MGN19712**	
			13 A	-	-	**MGN19713**	
			16 A	**MGN19724**	**MGN19734**	**MGN19714**	
			20 A	**MGN19725**	**MGN19735**	**MGN19715**	
			25 A	**MGN19726**	**MGN19736**	**MGN19716**	
			32 A	**MGN19727**	**MGN19737**	**MGN19717**	
Voltage rating (Ue)				230/400 V AC			
Operating frequency				50 Hz			

Connection

DB122603



Rating	Tightening torque	Copper cables	
		rigid	flexible or with ferrule
		DB112804 	DB112805 
6 to 32 A	2 N.m	1 to 35 mm²	1 to 25 mm²

** Information to be provided by the country.*

Compact residual current circuit breaker DCP N Vigi
RCBO 6000 A (cont'd)

Technical data

Main characteristics		
Rated residual operating current (IΔn)		30, 300 mA
Earth leakage protection type		A and AC
Setting temperature for ratings 6 to 32 A		30°C
Magnetic tripping	B curve	between 3 and 5 In
	C curve	between 5 and 10 In

Breaking capacity

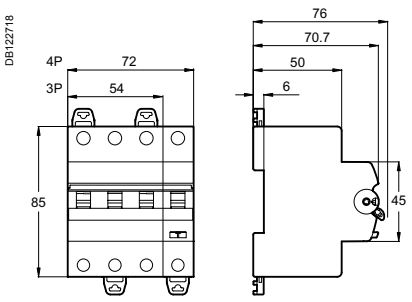
IEC 61009-1, EN 61009-1		
Rated breaking capacity (Icn)		6000 A
Service breaking capacity (Ics)		1 x Icn
Rated residual breaking and making capacity (IΔm)		6000 A
IEC 60947-2, EN 60947-2		
Ultimate breaking capacity (Icu)	230 V	10 kA
	400 V	6 kA
Service breaking capacity (Ics)		75 % of Icu

Endurance

Ratings (A)	Mechanical endurance	Electrical endurance under rated current
	Number of O/C cycles	Number of O/C cycles
6 to 32	20000	10000

Other characteristics	
Degree of protection	IP40/IPxxD for the part outside of the enclosure
Insulation voltage (Ui)	500 V
Rated impulse withstand voltage (Uimp)	4 kV
Range of test button operating voltage	170 V to 440 V
Service temperature	Type AC: from -5°C to +40°C
	Type A: from -25°C to +40°C
8/20 µs impulse withstand	250 Â
Limitation class	2
Tropicalization	Treatment 2 (relative humidity 95% at 55°C)

Dimensions



Weight

Residual current device	
Type	DCP N Vigi
3P	340 g
4P	423 g