Earth leakage protection

C60 Vigi modules Instantaneous 10 to 1000mA Selective S: 300mA and 1000mA



Function

- They are used with C60 2P, and 4P circuit breakers to provide:
- □ Protection for users against indirect contacts
- ☐ Additional protection for users against direct contacts (10 mA and 30 mA)
- □ Protection for electrical installations against insulation faults (fire hazard, etc.)
- Basic C60 circuit breakers retain their characteristics

Description

The Vigi earth leakage module is electromagnetic. It operates without an auxiliary power supply. The C60 Vigi module combines the relay and toroid in a single unit. These may not be fitted to 1 pole or 3 pole MCBs.

C60 Vigi modules			Туре	AC	Α	A si	A SiE
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Applications							
Current uses				•			
Electronic loads, rectifiers, instruments, switch mode power supplies, variable speed controllers, etc				-			
Environment							
Disturbed networks with:	Risk of nuisance tripping due to transient voltage surges	Lightning stroke, switchgear operating on the network		•	•	•	•
	High risk of nuisance tripping	Close lightning strokes, IT earthing system, equipment incorporating interference filters (lighting, computer systems), variable speed controllers, frequency converters, electronic lighting ballasts	Enhanced continuity of supply	-	-		
	Sources of blindness	Presence of harmonics or high frequency rejections	Enhanced earth leakage protection	-	-	•	
		Presence of DC components: equipment incorporating diodes, thyristors, triacs		-	-	•	•
Low temperatures	Use: -25 °C			-			
Humid atmospheres and/or atmospheres polluted by aggressive agents	Swimming pools, marinas, agri-food industries, water treatment plants, industrial production sites, etc			-	-	-	•
Tripping							
Due to sinusoidal AC residual currents	Whether they are applied quickly or increased slowly			•			•
Due to continuous pulsed residual currents				-			

Instantaneous

It ensures instantaneous tripping (without time-delay).

Selective S

Complete vertical discrimination is ensured if the following two conditions occur simultaneously:

- The downstream device is an instantaneous device and the upstream device is a selective ⑤ or time-delay device
- The sensitivity IDn of the downstream device is less than IDn/2 of the upstream device

Combination

The C60 circuit breaker + C60 Vigi module combination constitutes a residual current device in compliance with BS EN 60947-2 and BS EN 61009.



C60 circuit breaker

C60 Vigi module

Residual current device

Technical Section 9 Dimensions Section 10