DB90 incomer circuit breakers

Functions

LV incomer circuit-breakers for powers up to 36 kVA:
■ provide overload and short-circuit protection
■ in the residual current version, protect persons against indirect contact and installations against insulation faults
■ in the Ⓢ selective residual current version:
□ provide total discrimination with high sensitivity (30 mA) residual current devices installed downstream so that only the feeder with the insulation fault is de-energised
□ allow installation of a surge arrester immediately downstream of the circuit breaker without risk of breaker nuisance tripping
□ take into consideration the service quality requirements of certain loads (freezers, computer equipment, etc.).
***Note**: downstream of a non residual current incomer circuit-breaker, user safety must be ensured by a residual current device covering the entire installation or specific to each feeder.*

Description

Technical data

■ Ratings: adjustable from 10 to 90 A
■ Utilisation temperature: -5…+40 °C
■ Thermal release: temperature compensated
■ Breaking capacity at cos φ = 0.7
□ 2000 A, for DB90 catalogue numbers **13100**, **13102**, **13110**, **13112**, **13120** and **13123**
□ 2400 A, for DB90 catalogue numbers **13103**, **13104**, **13105**, **13106**, **13115**, **13116**, **13121**, **13122** and **13124**
■ Connection: adjustable tunnel terminals for copper cables up to 35 mm^2 (neutral terminal: blue)
■ Delivered with sealable terminal shield
■ NF USE approved
■ Complies:
□ with the NF C 62-411 standard for the instantaneous and selective residual current DB90 (selective: “specially designed to obtain a preset value for the maximum non-tripping time corresponding to a specific value of the residual current”)
□ with the NF V 62-412 standard for the non residual current DB90
□ with EDF regulations.

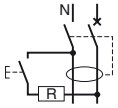
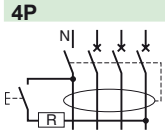
Catalogue numbers


13110

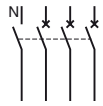
Instantaneous residual current DB90

Type	Voltage (V AC)	Rating (A)	Sensitivity (mA)	Catalogue numbers
2P				
	250	15/30/45	500	**13100**
		30/45/60	500	**13106**
		60/75/90	500	**13105**
4P				
	440	10/15/2025/30	500	**13102**
		30/40/50/60	500	**13103**

Ⓢ selective residual current DB90

Type	Voltage (V AC)	Rating (A)	Sensitivity (mA)	Catalogue numbers
2P				
	250	15/30/45	500 Ⓢ	**13120**
		30/45/60	500 Ⓢ	**13121**
		60/75/90	500 Ⓢ	**13122**
4P				
	440	10/15/2025/30	500 Ⓢ	**13123**
		30/40/50/60	500 Ⓢ	**13124**

Non residual current DB90

Type	Voltage (V AC)	Rating (A)	Sensitivity (mA)	Catalogue numbers
2P				
	250	15/30/45	-	**13110**
		30/45/60	-	**13116**
		60/75/90	-	**13115**
4P				
	440	10/15/20/25/30	-	**13112**
		30/40/50/60	-	**13104**