

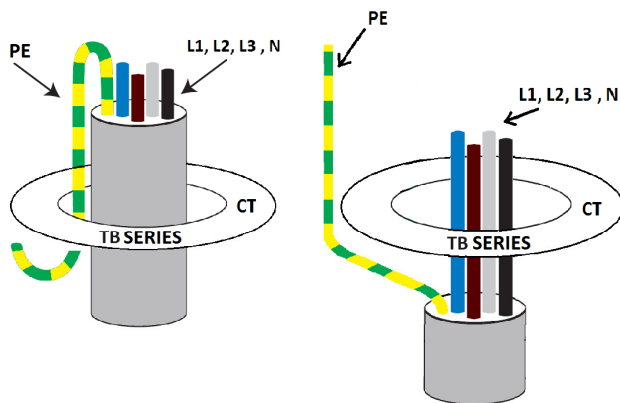
DOSSENA TOROIDAL CURRENT TRANSDUCERS TB SERIES

Ordering Code: 9TB35- 9TB60- 9TB80- 9TB110- 9TB160- 9TB210

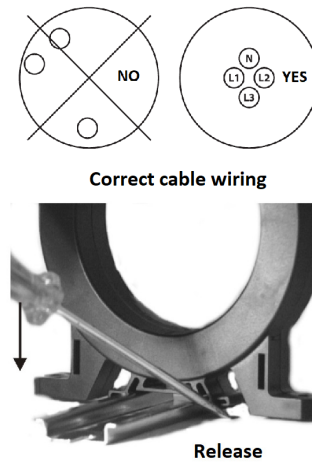
MU 1288 Rev.1

Description

The current transducers TB series, used with Dossena modular residual current devices type B DER4B, allow to detect homopolar/residual current to ground. Toroids must be installed upstream of the line or loads to be protected and monitored. All conductors (phase and neutral) of single phase and three-phase must pass inside the transducer. For a proper working of Dossena type B residual current devices DER4B, it is mandatory to use a toroid TB series.



When the PE is present keep it outside the CT



Correct cable wiring

Release

Direction for installation:

- The toroid connections require 6.3mm female standard faston.
- Push to fix the toroid on DIN rail, to remove it, use a screw-driver, as shown in the picture.
- Cables inside the toroid must be centred and tightened together.
- Do not bend cables/bars near toroid.
- The toroid internal diameter must be about two times the overall diameter of the passing cables.
- The cross-section of the conductors must be such that the total resistance of each DER4B ↔ toroid connection is less than 0.5Ω.
- Minimize the distance of the DER4B ↔ toroid connection and keep the toroid cables away from power cables; use twisted shielded cables with the shield connected to ground at one point only (cable section ≥0,5mm²).

TECHNICAL CHARACTERISTICS

NAME	TB35	TB60	TB80	TB110	TB160	TB210
Ordering Code	9TB35	9TB60	9TB80	9TB110	9TB160	9TB210
Internal diameter (mm)	35	60	80	110	160	210
Min IΔn value (A)	0,03	0,03	0,03	0,1	0,3	0,3
Nominal current In (A)	80	120	170	260	310	360
Max load current (A)	480	720	1020	1560	1860	2160
Monitored Network	TT, TN					
Standards	IEC 61869-2					
Operating temperature	-10 ÷ +55°C					
Storage temperature	-20 ÷ +80°C					
Plastic self-extinguishing housing	V0					
Degree of protection	IP20					
Transformation ratio	500 (terminals 1-4)					
Short circuit current	80kA (0,5 sec)					
Application	Use only with DOSSENA MRCD DER4B					

Dimensions	TB35	TB60	TB80	TB110	TB160	TB210	
A (mm)	35	60	80	110	160	210	
B (mm)	99,5	124,5	144,5	180,5	230,5	280,5	
C (mm)	70	94,5	114,5	150,5	200,5	250,5	
D (mm)	44,5	57	67	85	110	135	
E (mm)	-	-	-	-	-	-	
F (mm)	-	-	-	-	-	-	
G (mm)	26	26	26	31	31	31	
H (mm)	104	117	125	155	197	227	
I (mm)	92	103	111	141	183	213	