TOROIDAL CURRENT TRANSFORMER USER MANUAL

TOROIDAL CURRENT TRANSFORMER

Toroidal current transformer is a current transformer used to detect the leakage current on the line. After passing phase and neutral lines through the transformer, the output terminals must be connected to the S1 and S2 (direction is not important) terminals of KAR01 and KAR11. There are 7 different models of leakage current transformers and the most suitable one can be used according to the needs.

Product Code	Product Name	Product Description	Leakage Current Value Range	Type	Inner Diameter Ø (mm)	Dimensions W x H x D (mm)
GA6930	TAT00	TOROIDAL CURRENT TRANSFORMER (40 mm)	30 mA - 30 A	Circular	40	80 x 99,5 x 17,5
GA6931	TAT01	TOROIDAL CURRENT TRANSFORMER (80 mm)	30 mA - 30 A	Circular	80	121 x 139 x 34
GA6932	TAT02	TOROIDAL CURRENT TRANSFORMER (110 mm)	30 mA - 30 A	Circular	110	155 x 174 x 34
GA6933	TAT03	TOROIDAL CURRENT TRANSFORMER (160 mm)	30 mA - 30 A	Circular	160	205 x 224 x 35,5
GA6934	TAT04	TOROIDAL CURRENT TRANSFORMER (210 mm)	30 mA - 30 A	Circular	210	254 x 272 x 33,8
GA6935	TAT05	TOROIDAL CURRENT TRANSFORMER (300 mm)	30 mA - 30 A	Circular	300	345 x 367 x 47
GA6936	TAT06	TOROIDAL CURRENT TRANSFORMER (280 * 115 mm)	30 mA - 30 A	Rectangle	280 x 115	350 x 185 x 40
GA6937	TAT07	TOROIDAL CURRENT TRANSFORMER (470 * 160 mm)	30 mA - 30 A	Rectangle	470 x 160	545 x 235 x 40

NOTE: Toroidal Current Transformers must be used together with Toroidal Leakage Current Relays as they work in harmony.

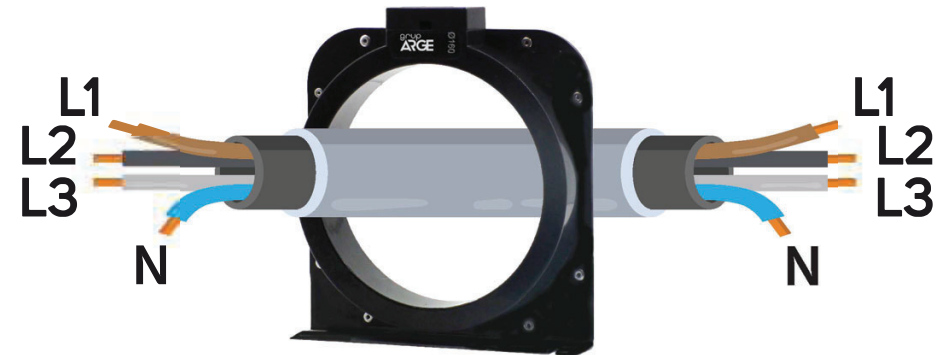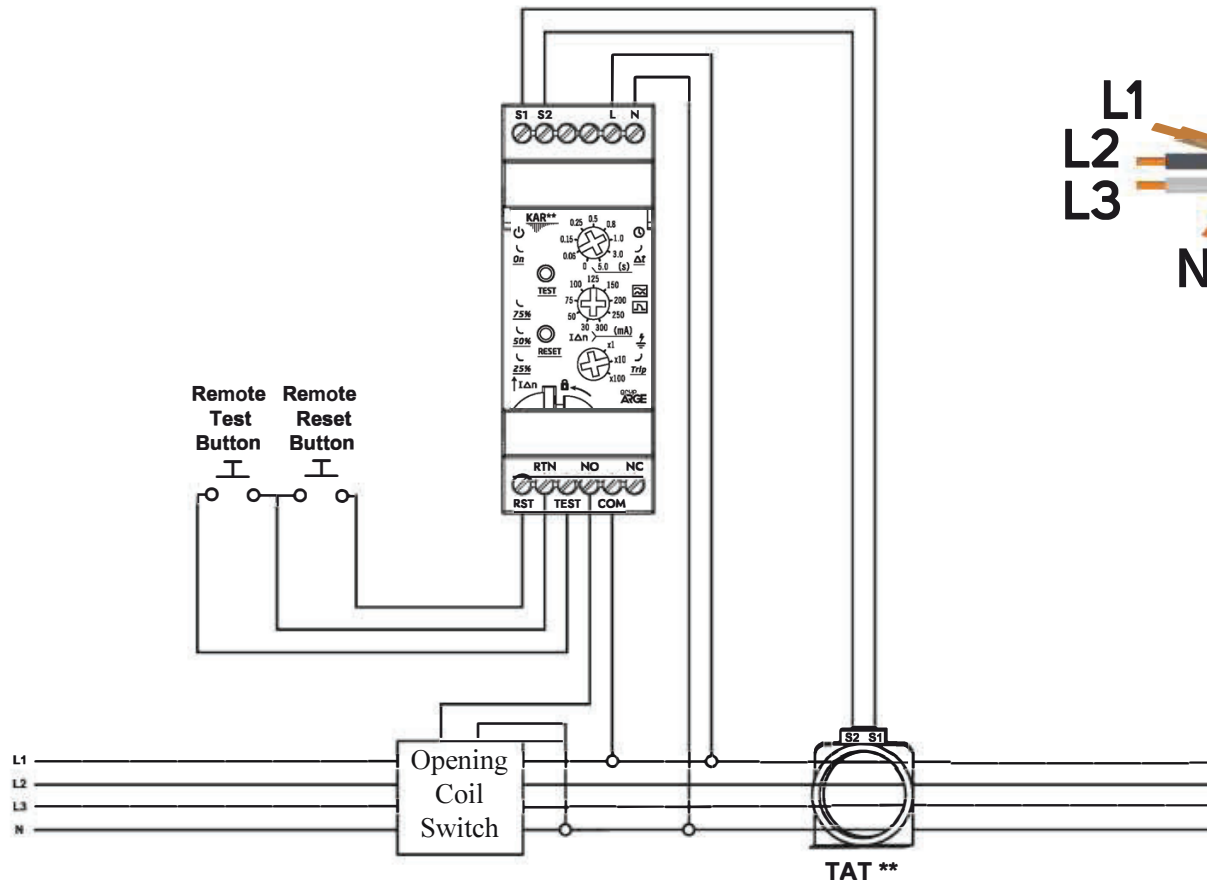# TOROIDAL CURRENT TRANSFORMER CONNECTION DIAGRAM

Figure A

Figure B

Important Points to Consider

All phase and neutral wires must pass through the Toroidal Current Transformer as shown in **Figure A**.

The ground wire must absolutely not be pass through the Toroidal Current Transformer.

The total volume of the phase and neutral conductors passing through the Toroidal Current Transformer must be smaller than the internal volume of the Toroidal Current Transformer.

The cables should be pass through the center of the Toroidal Current Transformer as shown in **Figure B**, as much as possible.