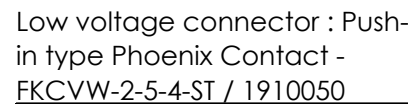


PM relay type under BB housing mounted on 50x5 busbar. Mainly connected between earth and frame in order to detect earth fault in substations.

Serial and product number reference
engraved on the front plate



The schematic diagram illustrates the internal components of the FT50832_N1 module, which is shown as a rectangular block with a central V-shaped cutout. The module is connected to a dashed rectangular frame representing the system. Inside the frame, the following components are shown:

- Reset button:** A switch labeled "Reset button" with a push-button symbol. It is connected to the MR input on the left and the R output on the right.
- Test button:** A switch labeled "Test button" with a push-button symbol. It is connected to the MT input on the left and the T output on the right.
- Latching magnet:** A component labeled "Latching magnet" with a symbol consisting of two crossed lines. It is positioned below the buttons and is connected to the R and T outputs.

The module is identified by the label **FT50832_N1** at the bottom.



Circuit primaire/ Primary circuit

Nominal current/ Voltage :	N.A.
Max. perm. Current/ Voltage :	700 Adc
Pick up Value :	[30:400] Adc Tol. : $\pm 10\%$
Drop out Value :	Push Button Tol. : N.A.
Latching / BP reset :	Yes
Push button test :	Yes
Timer relay :	No
In case of no pick-up value specified, value set at : 80 Adc	
For response time information, check graph on the left.	

Operating temperature :	-25°C...+70°C
Storing temperature :	-40°C...+85°C
Mounting position :	Any attitude

Relation between AC and DC for pick up setting value ($\pm 10\%$):			
30 Adc = 26 Aac	40 Adc = 34 Aac	60 Adc = 50 Aac	
80 Adc = 70 Aac			

Kv - 50 Hz

12 Kv	Between primary and secondary
1.5 Kv	Between each contact

Fonction opératoire

Figure 1 consists of two vertically aligned graphs sharing a common horizontal time axis.

The top graph plots the status of the 'N/O Contact' (Normally Open Contact) on the vertical axis, with values 0 and 1. The status is 0 until a fault occurs, at which point it jumps to 1. A text box indicates: 'Holding by permanent magnet, drop out only allowed by « reset button »'.

The bottom graph plots the 'Current through busbar' on the vertical axis, with values 0 and 1. The current starts at 0, rises linearly to a peak value, and then drops sharply to 0. A dashed horizontal line indicates the 'Pick up value'.

T : N/O
MT : Ground N/O
MR : Ground N/C
R : N/C

Relay reference and serial number engraved on the top plate.
Pickup setting value marked on the front face.

Fonction(s) client : N.A.	N°(s) spécification : N.A.	Symbole/ Article : N.A.
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		NOM	DATE	Entreprise/ Company : TECHNO-ELEC SAS		DÉSIGNATION DU PRODUIT/ PRODUCT DESIGNATION:	
AUTEUR. FT	Thibaud Colodie		04/11/2020	Adresse/ Adress : ZI de la castine, rue des sapins 54730 - GORCY - FRANCE		Earth fault detection current relay	
				Marque déposée/ Brand name : TECHNO-ELEC - SERVO CONTACT		RÉFÉRENCE FICHE TECHNIQUE/ DATASHEET REFERENCE: FT50832_N1	
				ECHELLE:1:2		FEUILLE 1 SUR 1	
				This drawing is the property of TECHNO-ELEC; It can't be reproduced or communicated without our written agreement.			