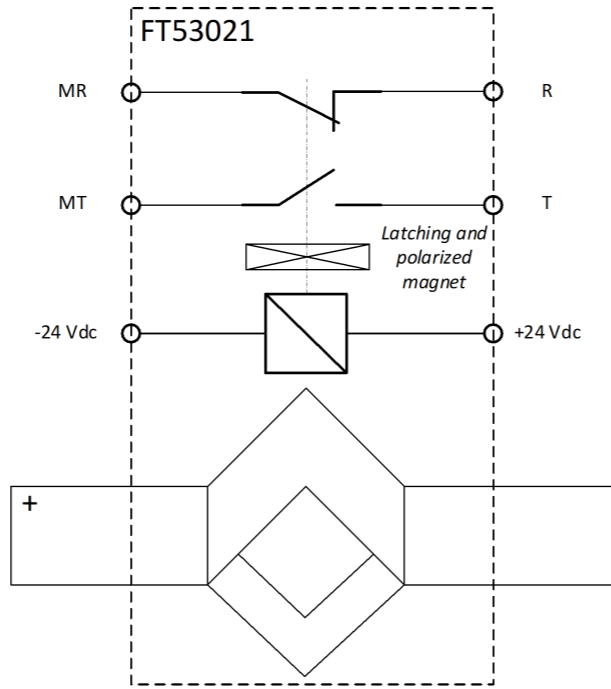
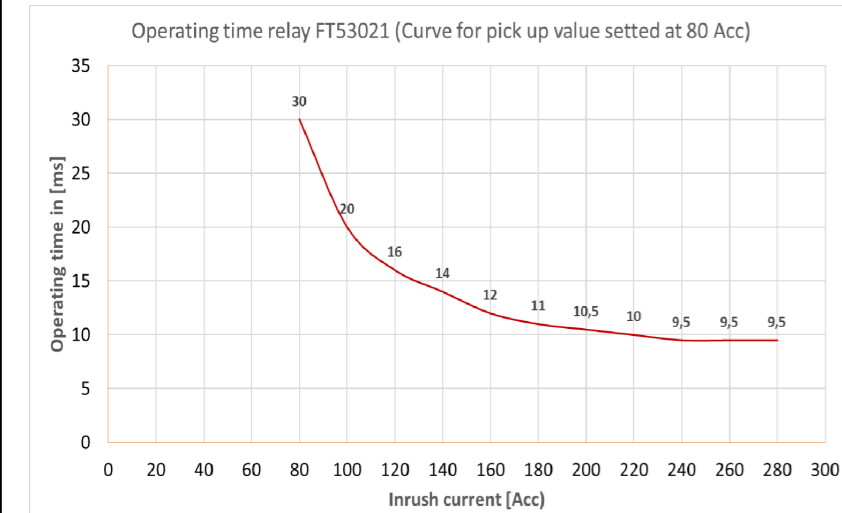
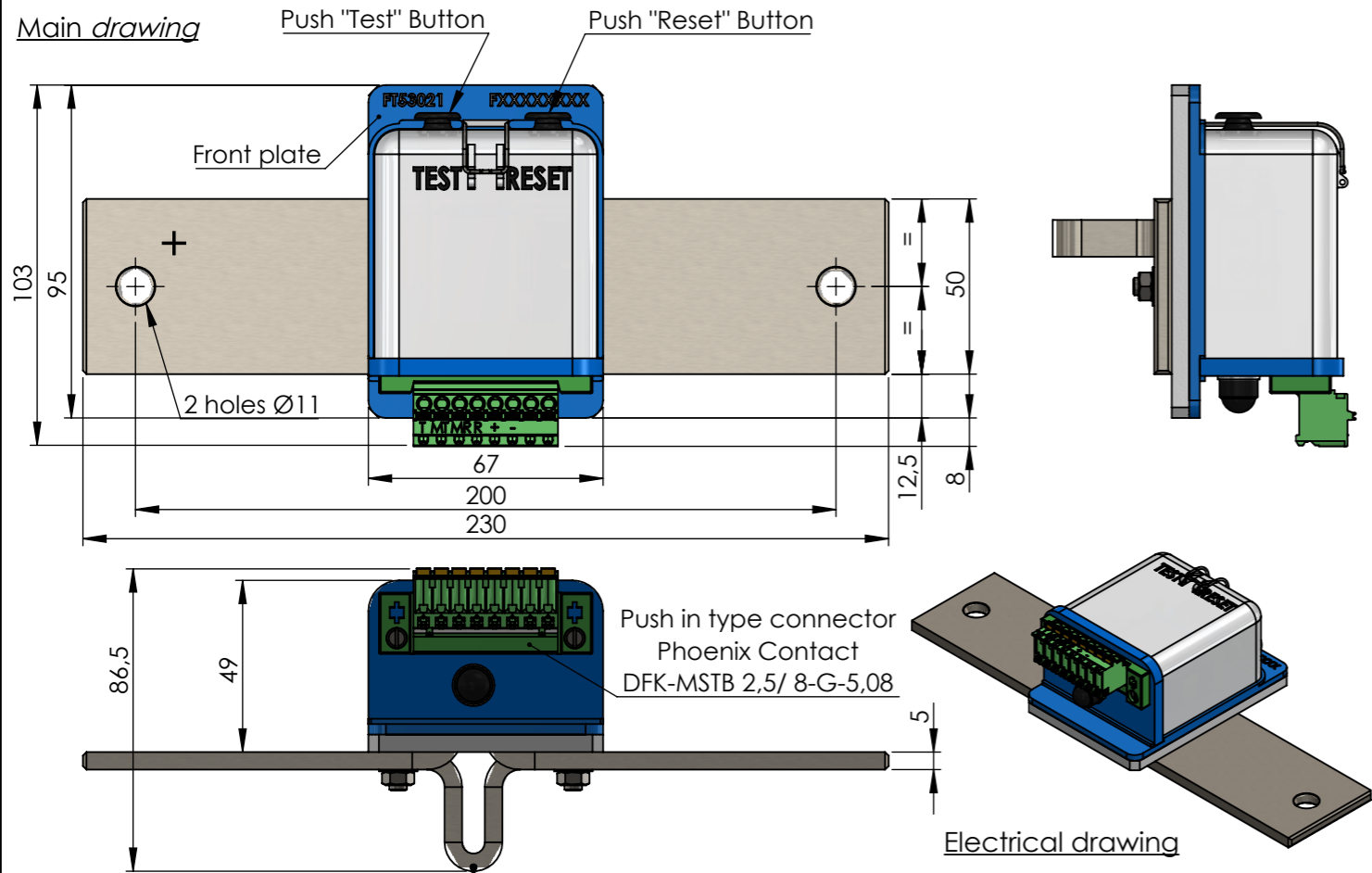


Généralités

PM relay type under BB housing mounted on 50x5 busbar. Mainly connected between earth and frame in order to detect earth fault in substations. Rearming either by reset button or by remote reset.

Main drawing



Generality

Reference standard

Electrical Characteristics

Entitled	Standard
Electrical equipment :	NF EN 60077/ IEC 60077
Traction network supply :	NF EN 50163
Shock and vibration :	NF EN 61373
Salt mist :	96h/ NF EN 60068-2-11
Fire and smoke :	N/A.

Caractéristiques électriques		Circuit primaire/ Primary circuit	
Nominal current/ Voltage :	N.A.		
Max. perm. Current/ Voltage :	N.A.		
Pick up Value :	[80:300] Adc [110:415] Aac	Tol. :	±10%
Drop out Value :	24 Vdc/ Push button	Tol. :	±10%
Hanging/ BP reset :	Yes	Push button test :	Yes
Default set up for pick up value : 80 Adc. Can be set up in AC. Rearming Coil "A" has to be powered by 24 Vdc. Coil "A" should not be continuously powered more than 1 min.			
Bus bar current has to be below 15 Adc for rearining. Coil "A" Resistance : 2000 Ohms (15°C ± 7%). For response time information, check graph on the left.			

Main Characteristics

Caractéristiques principales	
Main	
Type of Relay :	Current relay
Type of current :	AC/DC
Type of Housing :	BB
Auxiliary voltage : Yes	24 Vdc
Weight :	1 Kg

Contacts	
Number of Contacts :	1 N/O - 1 N/C
Contacts metalurgy :	Ag/ Pd
Contacts rating :	90 VDC - 0.3 A - L/R=30 ms
Electrical lifetime :	> 10 ⁶ Operations
Contact resistance :	< 20 mOhms

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

Further information

Informations complémentaires

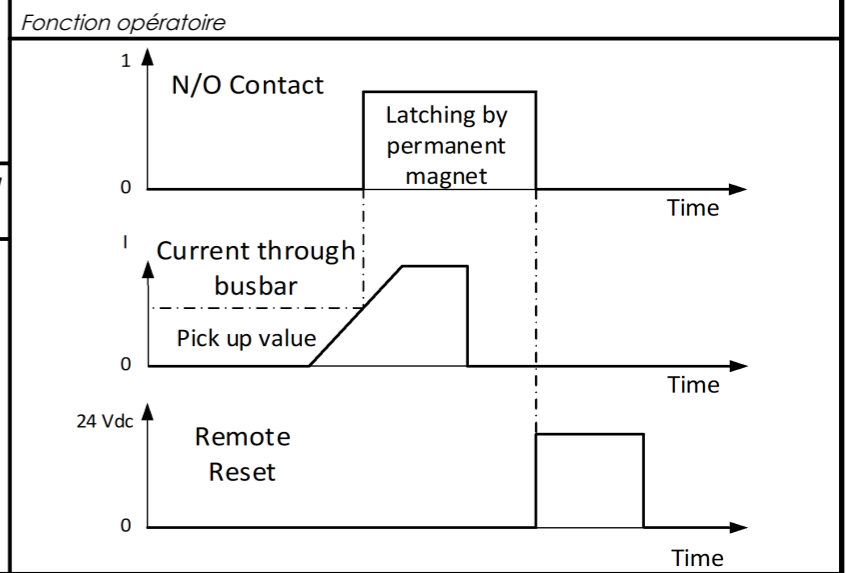
For Maximum short time current allowed :
 For 100 ms : 80 kA | For 200 ms : 55 kA | For 500 ms : 35 kA

Relation between AC and DC for pick up setting value (±10%):
 80 Adc = 110 Aac | 100 Adc = 140 Aac | 200 Adc = 275 Aac
 300 Adc = 415 Aac

Dielectric strength checks

Essais diélectriques		Kv - 50 Hz
12 Kv	Between primary and secondary	
1.5 Kv	Between each contact	
12 Kv	Between primary and Rearming coil	

Operating function



Connections & marking

Connections & gravage	
T : N/O	
MT : Ground N/O	
MR : Ground N/C	
R : N/C	
+	+ 24 Vdc Remote reset
-	- 24 Vdc Remote reset

Relay reference and serial number engraved on the front plate

Additional information

Caractéristiques Supplémentaires	Fonction(s) client : N.A.	N°(s) spécification : N.A.	Symbole/ Article : N.A.
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REVISION	DESCRIPTION	DATE	APPROVED BY
C	Busbar updated (no change for use)	07/09/2022	Thibaud Colodié
B	Change of connectors, AC informations added	08/09/2021	Thibaud Colodié
A	Issue of technical specification	28/02/2020	Frederic Forli

REVISIONS

	NOM : Thibaud Colodie DATE : 25/02/2020 AUTEUR: FT	Entreprise/ Company : TECHNO-ELEC SAS Adresse/ Address : ZI de la castine, rue des sapins 54730 - GORCY - FRANCE	DÉSIGNATION DU PRODUIT/ PRODUCT DESIGNATION: Earth fault detection current relay with remote reset
	Marque déposée/ Brand name : TECHNO-ELEC - SERVO CONTACT		RÉFÉRENCE FICHE TECHNIQUE/ DATASHEET REFERENCE: FT53021
This drawing is the property of TECHNO-ELEC; It can't be reproduced or communicated without our written agreement.		ECHELLE:1:2	FEUILLE 1 SUR 1