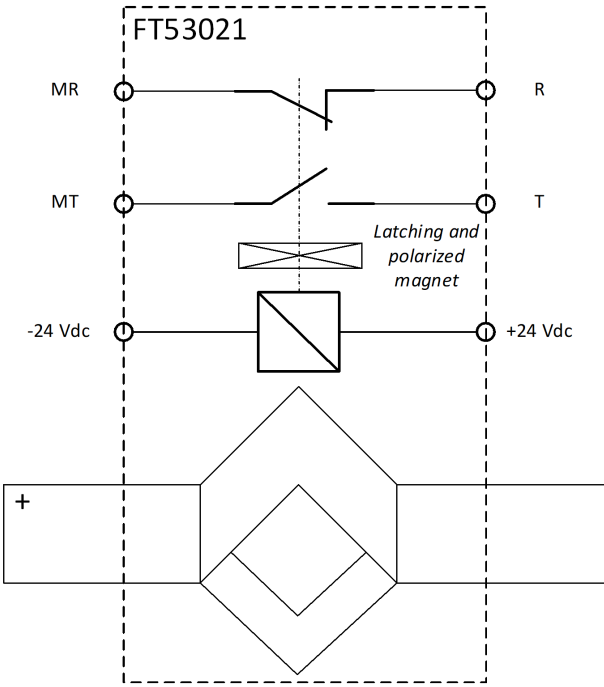
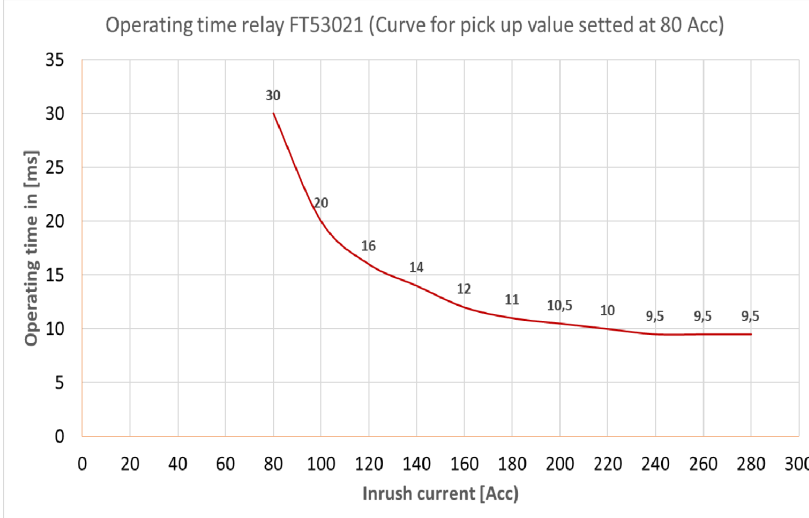
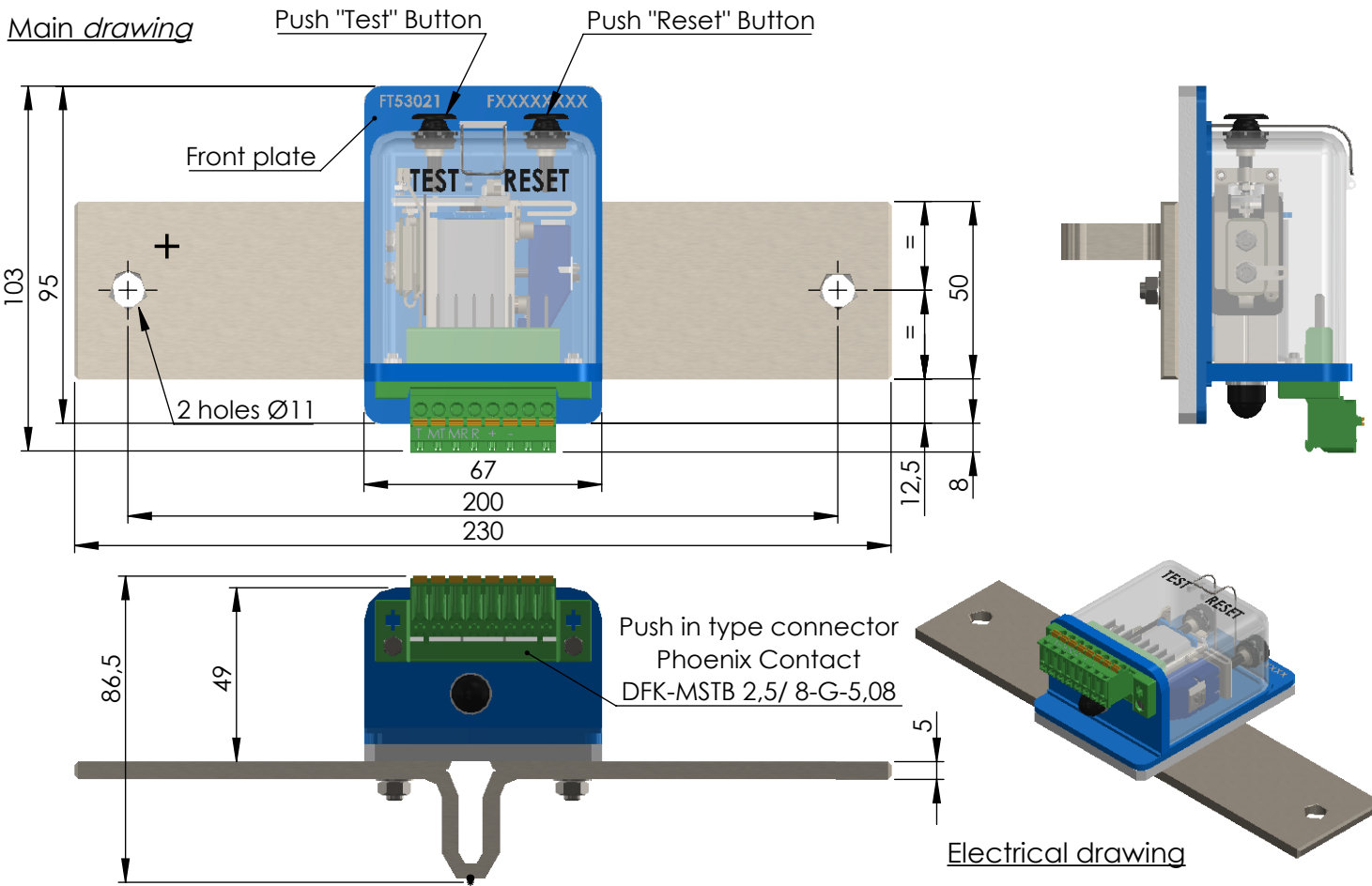


Généralités

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

Normes références

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.

Reference standard

Main Characteristics

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

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

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

Connections & marking

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

Electrical Characteristics

Caractéristiques électriques	Circuit primaire/ Primary circuit
Nominal current/ Voltage :	N.A.
Max. perm. Current/ Voltage :	N.A.
Pick up Value :	[80:200] Adc [100:200] 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 rearming.
Coil "A" Resistance :	2000 Ohms (15°C ± 7%).
For response time information,	check graph on the left.

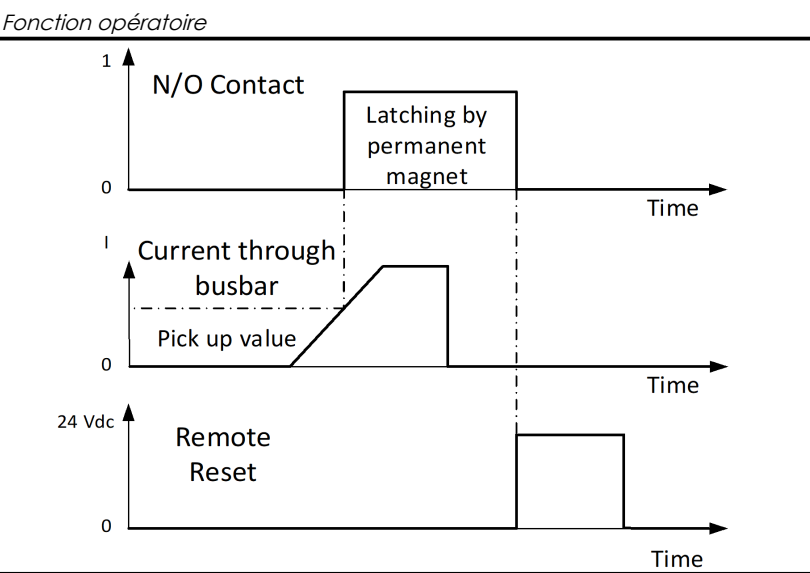
Further information

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

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



Additional information

Fonction(s) client : N.A.	N°(s) spécification : N.A.	Symbole/ Article : N.A.
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D	Setting range reduced to [80:200]	17/11/2023	Frederic Forli
C	Busbar updated (no change for use)	07/09/2022	Thibaud Colodié
B	Change of connectors, AC informations added	08/09/2021	Thibaud Colodié
REVISION	DESCRIPTION	DATE	APPROVED BY

REVISIONS

NOM

DATE

AUTEUR: FT

Thibaud Colodie

25/02/2020

Entreprise/ Company :

TECHNO-ELEC SAS

Adresse/ Address :

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54730 - GORCY - FRANCE

DÉSIGNATION DU PRODUIT/ PRODUCT DESIGNATION:

Earth fault detection current relay with remote reset

RÉFÉRENCE FICHE TECHNIQUE/ DATASHEET REFERENCE:

FT53021

ECHELLE:1:2

FEUILLE 1 SUR 1

Logo

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