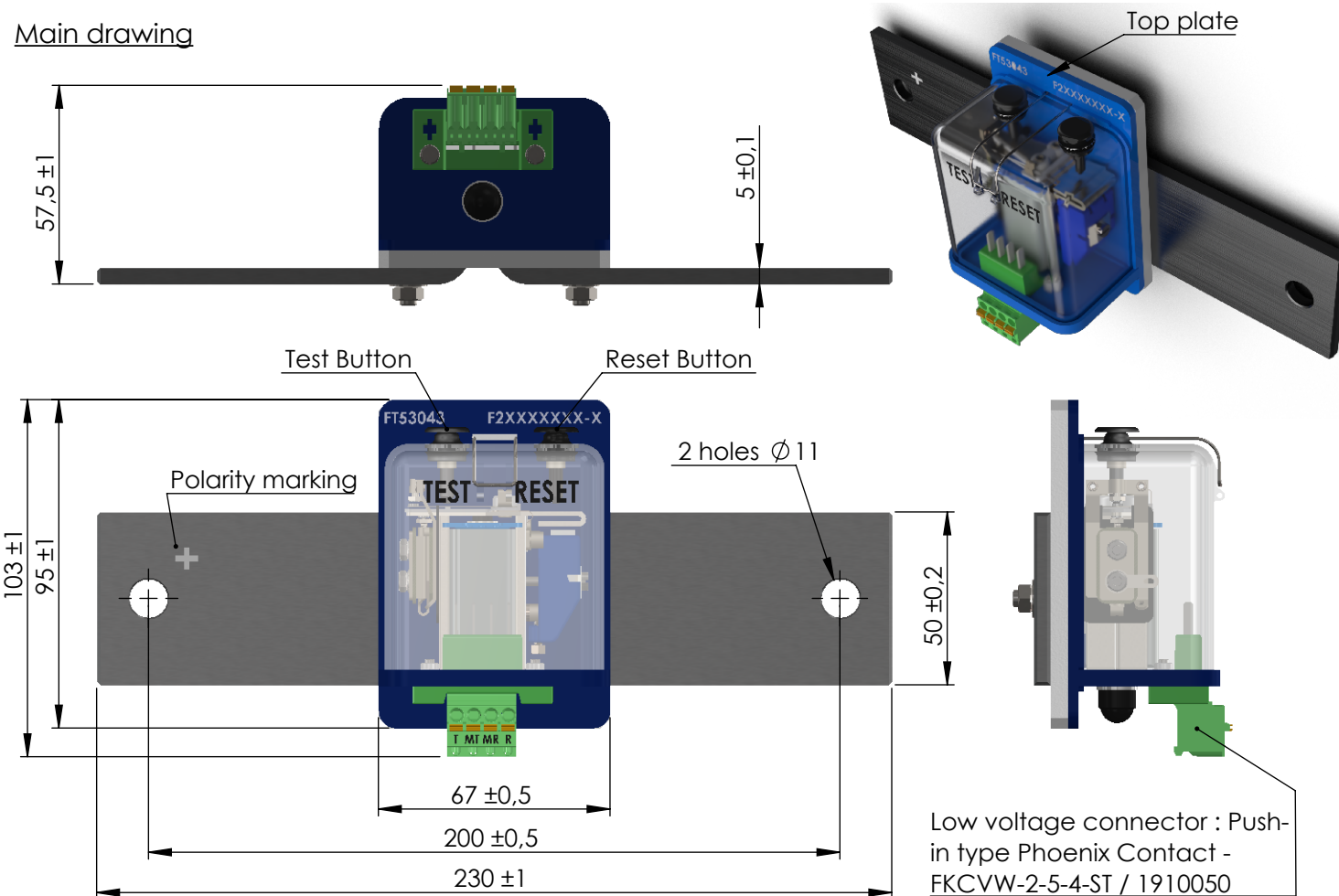


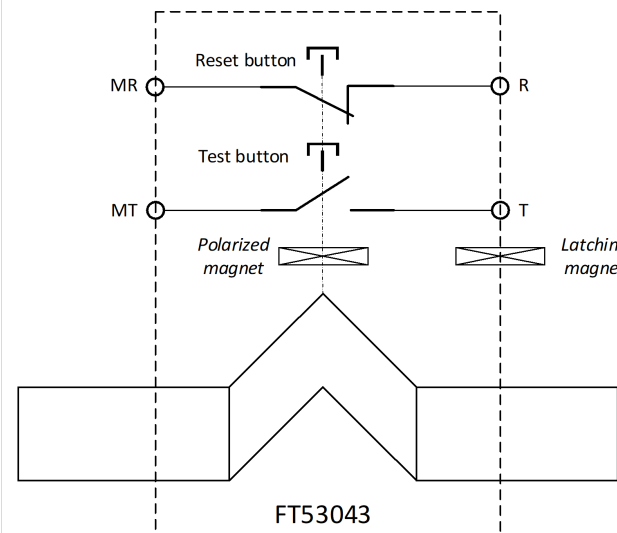
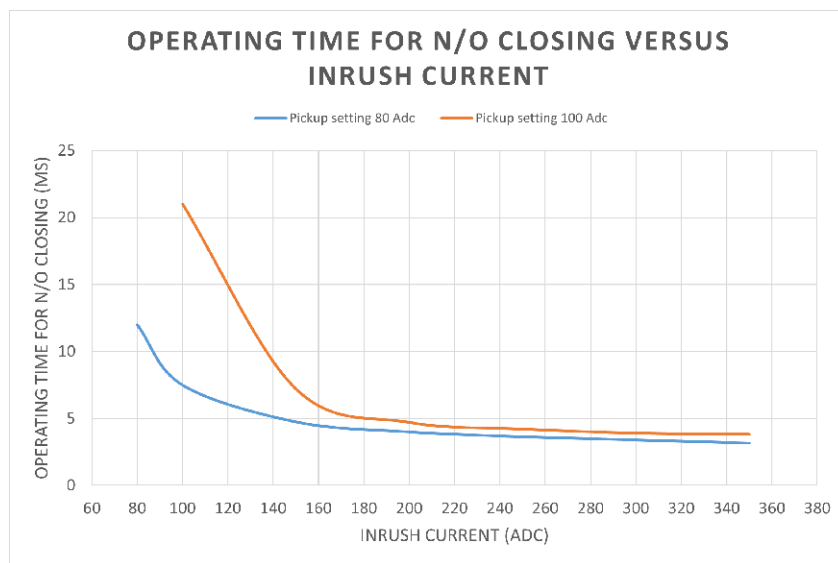
Généralités

PM type relay under BB housing mounted on 50*5 busbar, Earth fault detection function with polarized system. For use in substations.

Main drawing



Electrical drawing



Generality

Reference standard

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 :	EN 45545

Main Characteristics

Caractéristiques principales

Type of Relay :	Current relay
Type of current :	AC/DC
Type of Housing :	BB
Auxiliary voltage :	No
Weight :	0.8 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

Connections & marking

Connections & gravage



Relay reference and serial number engraved on the top plate.

Pickup setting value engraved on the front face.

Electrical Characteristics

Caractéristiques électriques

Circuit primaire / Primary circuit

Nominal current/ Voltage :	N.A.
Max. perm. Current/ Voltage :	700 Adc
Pick-up Value :	[80:100] Adc Tol. : $\pm 15\%$
Dropout Value :	Push Button Tol. : N.A.
Latching/ BP reset :	Yes
Push button test :	Yes
If no latching value specified on order, default setting : 80 Adc	
For response time information, check out graph on the left	

Further information

Informations complémentaires

Maximum short time current allowed : According to ambient temperature set at 40°C
For 50 ms : 110 kA For 100 ms : 80 kA For 200 ms : 55 kA For 250 ms : 50 kA For 500 ms : 35 kA
Relation between AC and DC for different pickup values ($\pm 15\%$) : 80 Adc 60 Aac - 100 Adc 75 Aac

Dielectric strength checks

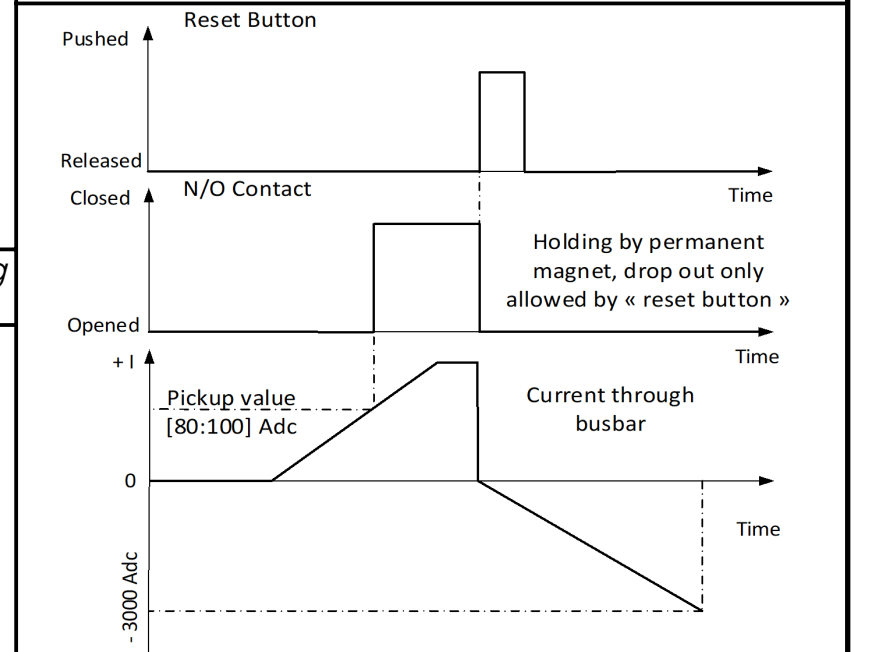
Essais diélectriques

Kv - 50 Hz

8.5 Kv	Between primary and secondary
1.5 Kv	Between each contact

Operating function

Fonction opératoire



Additional information

Caractéristiques Supplémentaires

Fonction(s) client : N.A.	N°(s) spécification : N.A.	Symbole/ Article : N.A.
---------------------------	----------------------------	-------------------------

		NOM	DATE	Entreprise/ Company : TECHNO-ELEC SAS		DÉSIGNATION DU PRODUIT/ PRODUCT DESIGNATION:			
AUTEUR: FT		Thibaud Colodie		09/09/2022		Adresse/ Address : ZI de la castine, rue des sapins 54730 - GORCY - FRANCE		Earth fault detection polarized relay	
				Marque déposée/ Brand name : TECHNO-ELEC - SERVO CONTACT		RÉFÉRENCE FICHE TECHNIQUE/ DATASHEET REFERENCE:			
						FT53043			
				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.									

C	Pickup tolerances increased to 15%	13/06/2024	Frederic Forli
B	Geometric tolerances added	16/04/2024	Thibaud Colodié
A	Issue of technical specification	20/09/2022	Frederic Forli
REVISION	DESCRIPTION	DATE	APPROVED BY
REVISIONS			