

Généralités				Generality	Reference standard		Electrical Characteristics	
Catenary voltage relay for 750 Vdc for rolling stock. SC3 relay mounted on MK160 housing				Normes références	Entitled	Standard	Caractéristiques électriques	
Main drawing				Electrical equipment :	NF EN 60077/ IEC 60077		Nominal Voltage : 750 Vdc	
LV connector Double faston 6.3mm				Traction network supply :	NF EN 50163		Max. permanent Voltage : 900 Vdc (Acc. to EN50163)	
Product reference and serial number ungraved on the LV plate				Shock and vibration :	NF EN 61373		Max. non permanent Voltage : 1000 Vdc / 5min	
A- HV connector M4 for eyelet lugs Recommended Torque : 2 Nm				Salt mist :	96h/ NF EN 60068-2-11		Max. non permanent Voltage : 1270 Vdc / 20ms	
4 holes Ø4.5				Fire and smoke :	EN 45545 HL3		Pick-up Value : [400:750] Vdc Tol. : ± 10%	
Electrical drawing				Main Characteristics	Caractéristiques principales		Dropout Value : [30%:90%] Pick up Tol. : ± 10%	
Overall resistance in HV circuit : 208 kΩ				Type of Relay :	Voltage relay		Power consumption : < 2.75 W at Un	
				Type of current :	DC		Pick up and drop out operating time from/to : < 20ms	
				Type of Housing :	MK160		Further information	
				Auxiliary voltage :	No		Without specification when ordering, the relay will be set to the following values:	
				Weight :	0.7 kgs		Pick up: 500 Vdc	
				Contacts	Number of Contacts :	1 N/O - 1 N/C	Drop out : 450 Vdc	
				Contacts metalurgy :	Ag/ Pd		Dielectric strength checks	
				Contacts rating :	90 VDC - 0.3 A - L/R=30 ms		Essais diélectriques Kv - 50 Hz	
				Electrical lifetime :	> 10 ⁶ Operations		10 Kv Between primary and secondary	
				Contact resistance :	< 20 mOhms		1.5 Kv Between each contact	
				Environment	Operating temperature :	-40°C...+70°C	2.5 Kv Between contacts and earth	
				Storing temperature :	-50°C...+85°C		Operating function	
				Mounting position :	Any attitude		Fonction opératoire	
				Connections & marking	Connections & gravage		1	
				15-16 : 750 Vdc input	MT: Ground N/O		0	
					T: N/O		U	
					MR: Ground N/C		Vin = [400:750] Vdc	
					R: N/C		Vout = [30%:90%] Pick up	
							Primary voltage	
							Time	
							Time	
							Additional information	
				Fonction(s) client : N.A.	N°(s) spécification : N.A.	Symbole/ Article : N.A.		
				AUTEUR. FT	Frederic Forli	11/09/2023	Catenary voltage relay 750Vdc	
				B	Color of the plastic plates changed	19/10/2023	REVISIONS	
				A	Issue of technical specification	12/09/2023	Thibaud Colodie	
				REVISION	DESCRIPTION	DATE	APPROVED BY	