

Contact element, 1 N/C, front mount, screw connection

Part no.	E01
Catalog No.	090401
Alternate Catalog No.	E01
EL-Nummer	4356332
(Norway)	

Delivery program

Product range		Accessories
Single unit/Complete unit		Single unit
Basic function accessories		Contact elements
Connection technique		Blade terminal
Description		admissible operating voltage: 5 – 250 V
Contacts		
N/C = Normally closed		1 NC 
Notes		 = safety function, by positive opening to IEC/EN 60947-5-1
Degree of Protection		IP20 with ISH2,8
Connection to SmartWire-DT		no

Technical data

General			
Standards			IEC/EN 60947
Lifespan, mechanical	Operations $\times 10^6$	> 100	
Operating frequency	Operations/h	≤ 3600	
Actuating force	n	≤ 3	
Degree of protection, IEC/EN 60529		IP20 with ISH2,8	
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30	
Ambient temperature			
Open	°C	-25 - +60	
Enclosed	°C	-25 - 40	
Mounting position		As required	
Mechanical shock resistance	g	> 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal	
Terminal capacities	mm ²	0.5 - 1.0	
Blade terminal		2.8 x 0.8 mm to DIN 46244	
Fast-on connectors		2.8 x 0.8 mm to DIN 46247 and IEC 60760	

Contacts

Rated impulse withstand voltage	U _{imp}	V AC	4000
Rated insulation voltage	U _i	V	250
Oversupply category/pollution degree			III/3
Rated operational voltage	U _e	V AC	250
Rated conditional short-circuit current	I _q	kA	1
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probability	< 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations)
at 5 V DC/1 mA	H _F	Fault probability	< 5 x 10 ⁻⁶ (i.e. 1 failure in 5 x 10 ⁶ operations)
Use of insulated ferrule ISH 2,8			> 24 V AC/DC recommended > 50 V AC or 120 V DC is mandatory, even on unused blade terminals
Max. short-circuit protective device		Type	FAZ-B6/1
Fuseless			
Fuse	gG/gL	A	10

Switching capacity

Rated operational current	I_e	A	
AC-15			
24 V	I_e	A	4
48 V	I_e	A	4
110 V	I_e	A	4
220 V 230 V 240 V	I_e	A	4
DC-13			
24 V	I_e	A	1.5
42 V	I_e	A	1
60 V	I_e	A	0.8
110 V	I_e	A	0.5
220 V	I_e	A	0.2

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	4
Heat dissipation per pole, current-dependent	P_{vid}	W	0.1
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as change-over contact		0
Number of contacts as normally open contact		0
Number of contacts as normally closed contact		1
Number of fault-signal switches		0
Rated operation current I_e at AC-15, 230 V	A	6
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Front fastening
Lamp holder		None