# **DATASHEET - ETR2-69-D**



Timing relay, 2W, 0.05s-100h, multi-function, 12-240VAC 50/60Hz, 12-240VDC  $\,$ 

Powering Business Worldwide\*

Part no. ETR2-69-D Catalog No. 119428 Alternate Catalog ETR2-69-D

No.

EL-Nummer 0004110013

(Norway)

### **Delivery program**

Delivery program			
Product range			ETR2 timing relays
Basic function			Timer relays
Function			Multi-functional On-delayed Off-delayed Fleeting contact on energization Fleeting contact on de-energization Flashing, pulse initiating Flashing, pause initiating Pulse forming
			Adjustable timing functions
Number of changeover contacts			2
Time range			0.05 s - 100 h
Time range			0.05 - 1 s 1.5 - 30 s 5 - 100 s 1.5 - 30 min 5 - 100 min 0.5 - 10 h 5 - 100 h
Rated operational current			
AC-15			
220 V 230 V 240 V	l <sub>e</sub>	Α	5
230 V (N/O)	l <sub>e</sub>	Α	3
230 V (NC)	l <sub>e</sub>	Α	0.75
Voltage range	U <sub>LN</sub>	V	12 - 240 V AC, 50/60 Hz 12 – 240 V DC
Width		mm	17.5
Terminal marking according to EN 50042			
Terminal marking according to EN 50042			

#### **Technical data**

#### Technical data in sheet catalogue

Other technical data (sheet catalogue)		Timing relays
--	--	---------------

# **Design verification as per IEC/EN 61439**

Technical data for design verification			
Heat dissipation capacity	P <sub>diss</sub>	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 7.0**

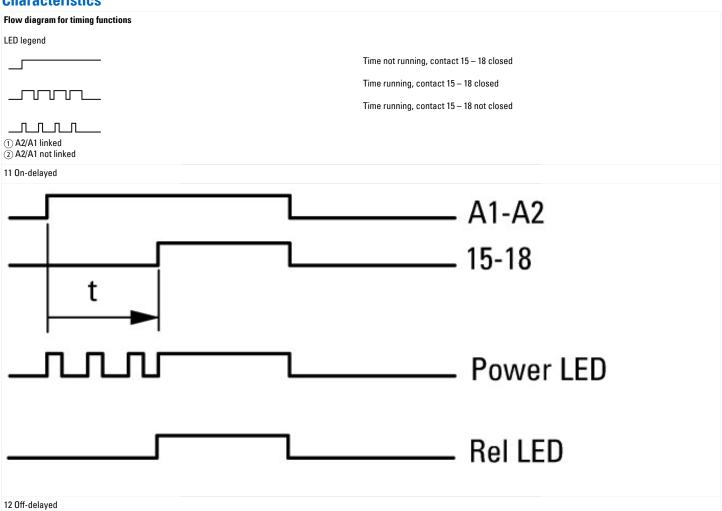
Toomitour data ETTM 7.0		
Relays (EG000019) / Timer relay (EC001439)		
Electric engineering, automation, process control engineering / Low-voltage switch tec	hnology / Relay and	d socket / Timed relay (ecl@ss10.0.1-27-37-16-05 [AKF092013])
Type of electric connection		Screw connection
Function delay-on energization		Yes
Function delay on de-energization		Yes
Function floating contact on energization		Yes
Function floating contact on de-energization		Yes
Function star-delta		No
Function pulse shaping		Yes
Function flashing, starting with pause, fixed time		Yes
Function flashing, starting with pulse, fixed time		Yes
Clock function, starting with pause, variable		No
Clock function, starting with pulse, variable		No
With plug-in socket		No
Remote operation possible		No
Suitable for remote control		No
Pluggable on auxiliary contact block		No
Rated control supply voltage Us at AC 50HZ	V	12 - 240
Rated control supply voltage Us at AC 60HZ	V	12 - 240
Rated control supply voltage Us at DC	V	12 - 240
Voltage type for actuating		AC/DC
Nominal current	Α	3
Time range	s	0.05 - 0.05
Number of outputs, undelayed, normally closed contact		0
Number of outputs, undelayed, normally open contact		0
Number of outputs, undelayed, change-over contact		0
Number of outputs, delayed, normally closed contact		0
Number of outputs, delayed, normally open contact		0
Number of outputs, delayed, change-over contact		2
Outputs, reversible delayed/undelayed		Yes

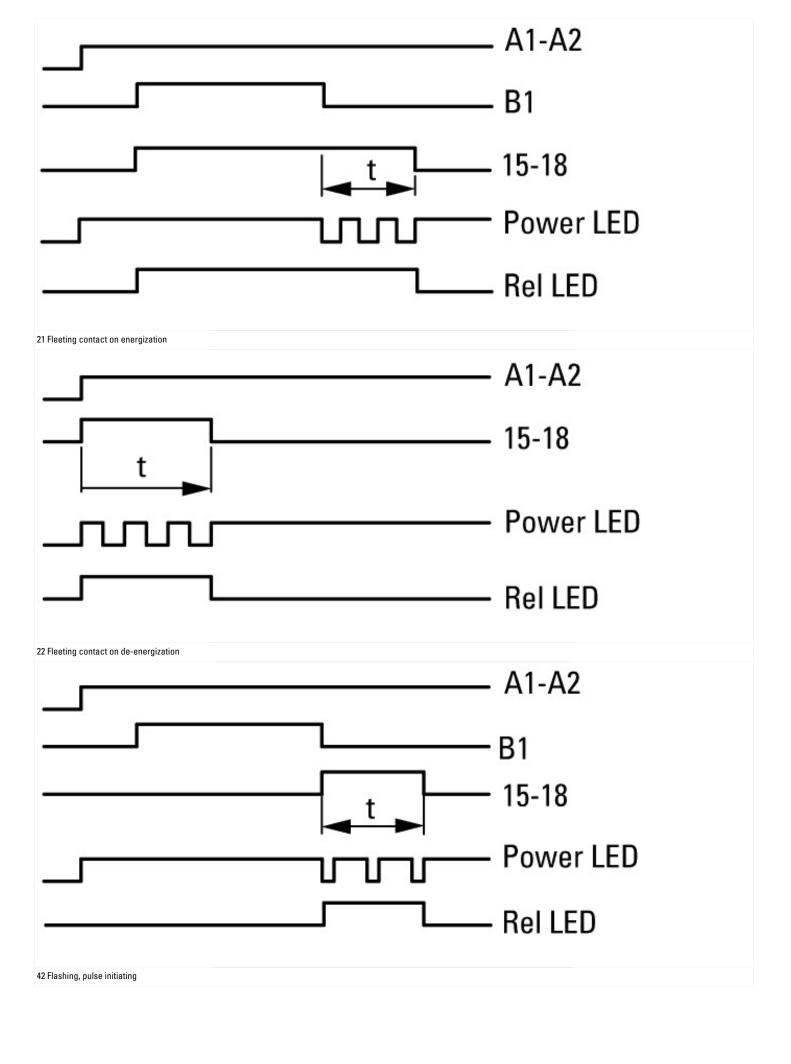
With semiconductor output		No
Suitable for DIN rail (top hat rail) mounting		Yes
Suitable for front mounting		No
Width	mm	22.5
Height	mm	78
Depth	mm	98

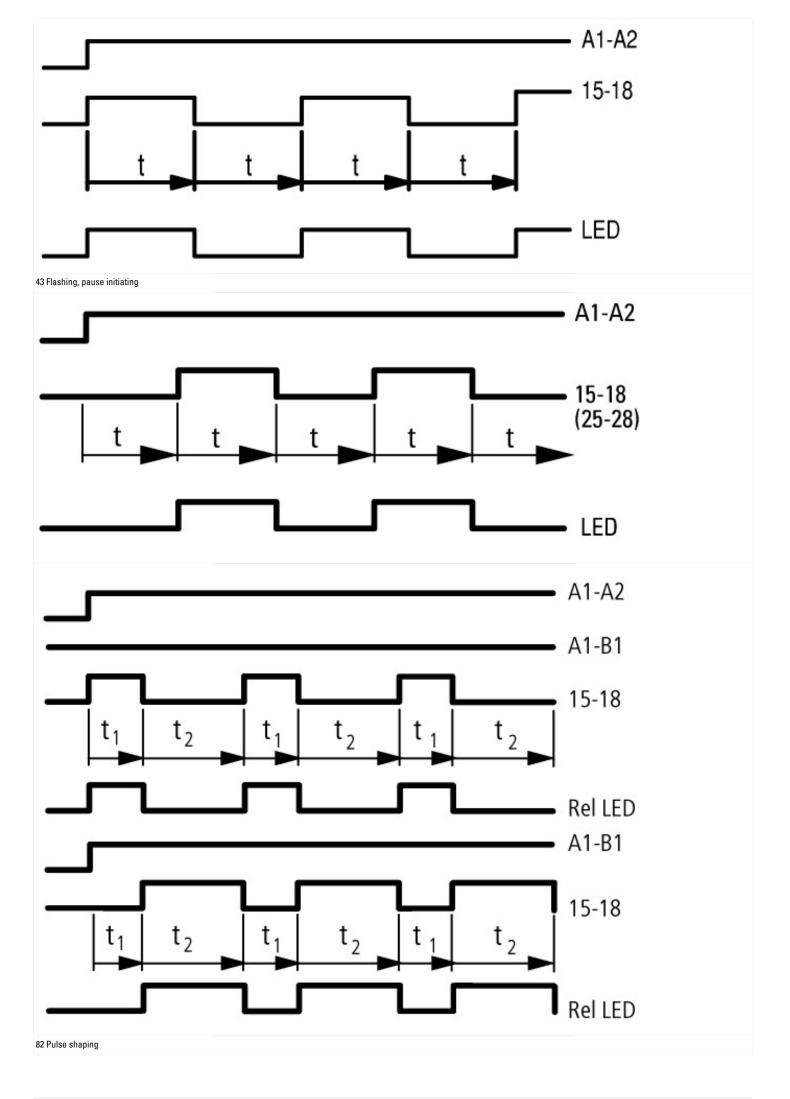
# Approvals

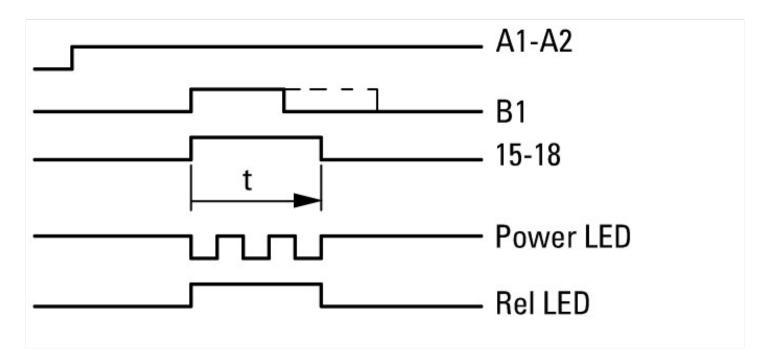
Product Standards	IEC/EN 61812-1; IEC/EN 60947-5-1; UL 508; CSA-22.2 No. 14; CE marking
UL File No.	E29184
UL Category Control No.	NKCR, NKCR7
CSA File No.	UL report valid
CSA Class No.	3211-03
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	IEC: IP20, UL/CSA Type: -

### **Characteristics**









# **Dimensions**

