DATASHEET - DILET70-W



Multi-function relay, 1W, 0.05-60h, with potentiometer connection, **400VAC**



DILET70-W Part no. Catalog No. 048899

Alternate Catalog XTMT6A60H70N

No.

EL-Nummer 4133286

(Norway)

Delivery program

Basic function Functi	Delivery program			
Function Fun	Product range			DILET timing relays
Ac-11	Basic function			Timer relays
Number of changeover contacts	Function			On-delayed Off-delayed Fleeting contact on energization Fleeting contact on de-energization Flashing, pulse initiating On- and Off-delayed Pulse forming
Time range				
Time range 0.05 - 1s 0.15 - 3 s 0.15 - 3 s 0.5 - 10 s 3 - 60 s 0.15 - 3 min 0.5 - 10 min 3 - 600 min 0.15 - 3 h 0.5 - 10 h 3 - 60 h AC-11 Voltage range Velocity 1 min 3 - 60 min 0.15 - 3 h 0.5 - 10 h 3 - 60 h 4C-15 AC-15 AC-15 220 V 230 V 240 V Velocity 1 min 3 - 60 h Voltage range Velocity 2 min 0.5 - 10 min 3 - 60 h 4 C - 15 AC-15 4 C - 15 <td>Number of changeover contacts</td> <td></td> <td></td> <td>1</td>	Number of changeover contacts			1
Rated operational current	Time range			0.05 s - 60 h
AC-11 Image: Control of the property of the prop	Time range			0.15 - 3 s 0.5 - 10 s 3 - 60 s 0,15 - 3 min 0.5 - 10 min 3 - 60 min 0.15 - 3 h 0.5 - 10 h
230 V I _e A 3 380 V 400 V 415 V I _e A 3 AC-15 Voltage range I _e A 3 Voltage range U _{LN} V 400 V AC, 50/60 Hz	Rated operational current			
380 V 400 V 415 V	AC-11			
AC-15 220 V 230 V 240 V Voltage range U _{LN} V 400 V AC, 50/60 Hz	230 V	le	Α	3
220 V 230 V 240 V I _e A 3 Voltage range U _{LN} V 400 V AC, 50/60 Hz	380 V 400 V 415 V	I _e	Α	3
Voltage range U _{LN} V 400 V AC, 50/60 Hz	AC-15			
	220 V 230 V 240 V	l _e	Α	3
Width mm 45	Voltage range	U_{LN}	V	400 V AC, 50/60 Hz
	Width		mm	45



Terminal marking according to EN 50042



Technical data

General			
Standards			Standard IEC/EN 61812 VDE 0435
Lifespan, mechanical			
AC operated	Operations	x 10 ⁶	30
DC operated	Operations	x 10 ⁶	30
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature			
Open		°C	-20 - +60
Enclosed		°C	- 20 - + 45
Mounting position		0	As required
Mechanical shock resistance (IEC/EN 60068-2-27)			7.6 roquirou
Half-sinusoidal shock, 20 ms		g	
Make contact		g	4
Degree of protection		9	
Terminals			IP20
Weight		kg	0.09
Terminal capacities		mm ²	
Solid			1 x (0.75 - 2.5)
Cond		mm ²	2 x (0.75 - 2.5)
Flexible with ferrule		mm^2	1 x (0.75 - 1.5)
0.51		414/0	2 x (0.75 - 1.5)
Solid or stranded Contacts		AWG	1 x (18 - 14)
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree	ρ		III/2
Rated insulation voltage	Ui	V AC	600
Rated operational voltage	U _e	V AC	440
Safe isolation to EN 61140	O ₀	V AO	
between coil and auxiliary contacts		V AC	250
between the auxiliary contacts		V AC	250
Making capacity		VAC	230
AC-14 cos φ = 0.3 400 V		A	48
AC-15 cos φ = 0.3 220 V		A	50
DC-11 L/R - 40 ms		x I _e	1.1
Breaking capacity		X ie	
AC-14 cos φ = 0.3 440 V		A	3
AC-15 cos φ = 0.3 220 V		A	3
DC-11 L/R - 40 ms		x I _e	1.1
Rated operational current	1	A	
AC14	l _e	^	
440 V		A	3
AC-15	l _e	A	
		Δ.	
220 V 230 V 240 V	le	Α	3
DC-11			Making and have king and distinct as DC10 king a second and
Note L/R max. 15 ms		Λ	Making and breaking conditions to DC13, time constant as stated
24 V		A	1.5
	l _e	A	
L/R max. 50 ms	l.	Α	1.2
Conv. thermal current	I _{th}	А	6
Short-circuit rating without welding			Miles and the discount of the second
Note		A = 0 / 1	When supplied directly from mains or transformer > 1000 VA
Max. fuse, make contacts		A gG/gL	
Max. fuse, break contacts Magnet systems		A gG/gL	U
Rated operational voltage	U _e	٧	
AC	,		400
Power consumption			
Pick-up AC		VA	0.5
Sealing AC		VA	0.5
Duty factor		% DF	100
Maximum operating frequency		Ops/h	4000
,			

Minimum command time		
AC	ms	50
Repetition accuracy (deviation)	%	≦ 0.5
Recovery time (after 100% time delay)	ms	70

Design verification as per IEC/EN 61439

besign vermeation as per 120/214 01-35			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.9
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0.5
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-20
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.

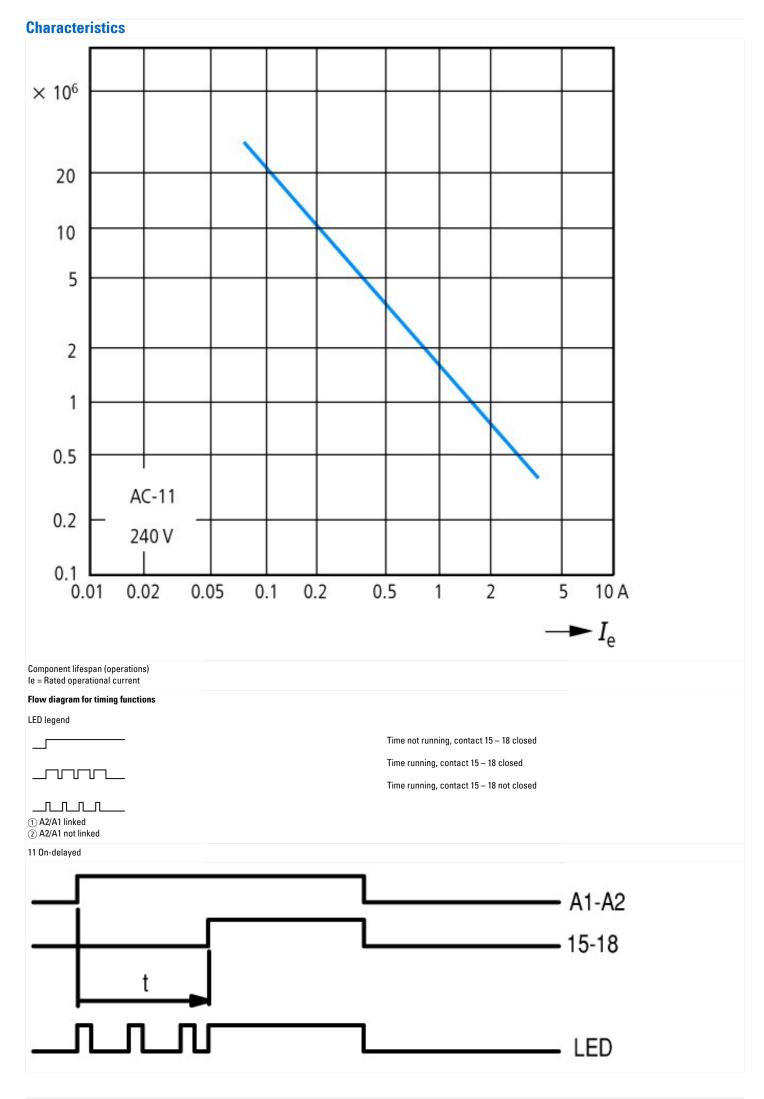
Technical data ETIM 5.0

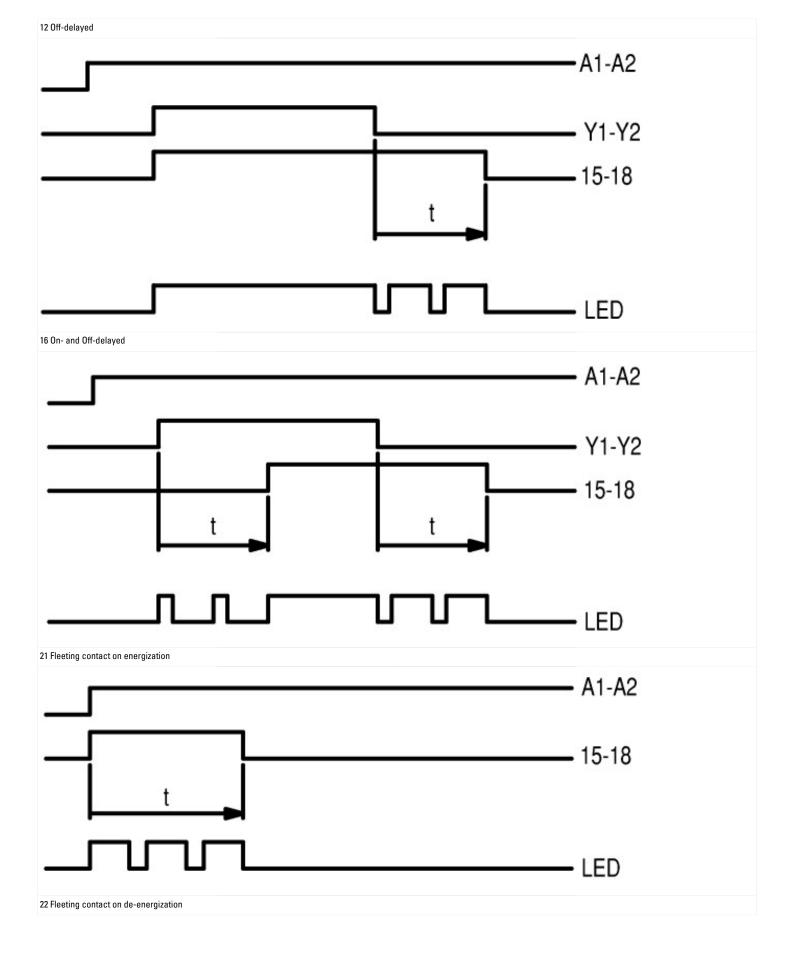
Relays (EG000019) / Timer relay (EC001439)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Relay and socket / Timed relay (ecl@ss8-27-37-16-05 [AKF092009])		
Type of electric connection	Screw connection	
Function delay-on energization	Yes	
Function delay 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	Yes	

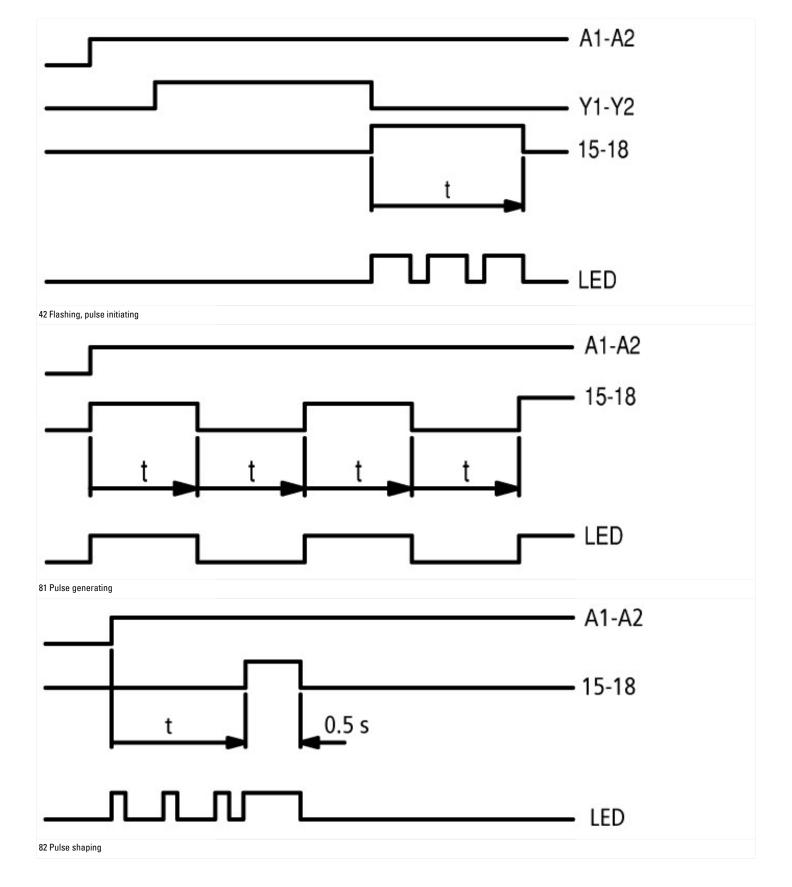
Clock function, starting with pulse, variable		Yes
With plug-in socket		No
Remote operation possible		Yes
Suitable only for remote control		No
Pluggable on auxiliary contact block		No
Rated control supply voltage Us at AC 50HZ	٧	400 - 400
Rated control supply voltage Us at AC 60HZ	V	400 - 400
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Time range	s	0.05 - 216000
Number of outputs, undelayed, normally closed contact		0
Number of outputs, undelayed, normally open contact		0
Number of outputs, undelayed, change-over contact		1
Number of outputs, delayed, normally closed contact		0
Number of outputs, delayed, normally open contact		0
Number of outputs, delayed, change-over contact		1
Outputs, reversible delayed/undelayed		Yes
With semiconductor output		No
Width	mm	45
Height	mm	58
Depth	mm	52

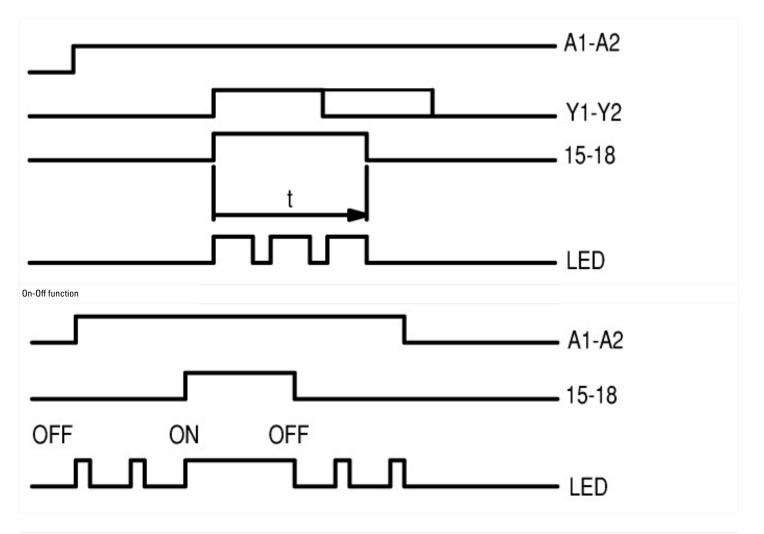
Approvals

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.	12528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP20, UL/CSA Type: -

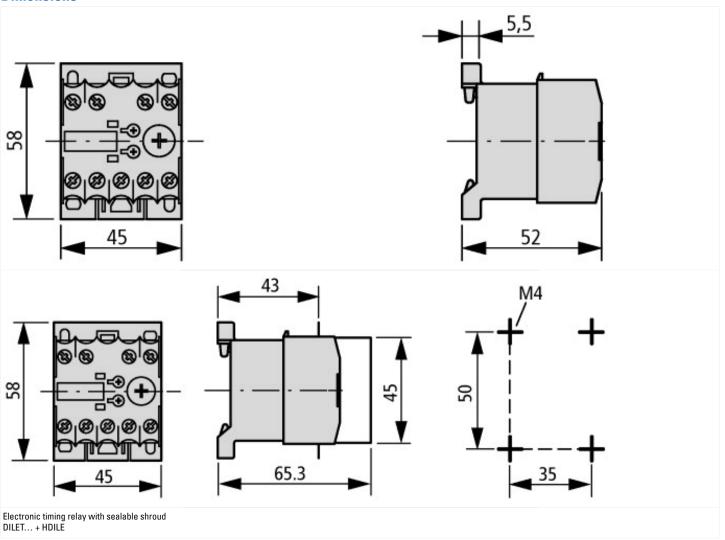








Dimensions



Additional product information (links)

IL04910003Z (AWA2527-1587) Solid-state timing relay

IL04910003Z (AWA2527-1587) Solid-state timing https://relay

IL04910003Z (AWA2527-1587) Solid-state timing https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL04910003Z2010_10.pdf