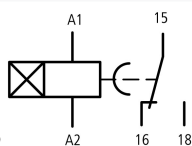




Timing relay, 1W, 1.5-30s, on-delayed, 24-240VAC/DC

Part no. DILET11-30-A
Catalog No. 048878
Alternate Catalog No. XTMT6A30S11B
EL-Nummer (Norway) 4133281

Delivery program

Product range			DILET timing relays
Basic function			Timer relays
Function			On-delayed
			Fixed timing function
Number of changeover contacts			1
Time range			1.5 - 30 s
Time range			1.5 - 30 s
Rated operational current			
AC-11			
230 V	I _e	A	3
380 V 400 V 415 V	I _e	A	3
AC-15			
220 V 230 V 240 V	I _e	A	3
Voltage range	U _{LN}	V	24 - 240 V AC, 50/60 Hz 24 - 240 V DC
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			As required
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 20 ms		g	
Make contact		g	4
Degree of protection			
Terminals			IP20
Weight		kg	0.09
Terminal capacities		mm ²	
Solid		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Flexible with ferrule		mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
Solid or stranded		AWG	1 x (18 - 14)

Contacts

Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			III/2
Rated insulation voltage	U _i	V AC	600
Rated operational voltage	U _e	V AC	440
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	250
between the auxiliary contacts		V AC	250
Making capacity			
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			
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	I _e	A	
AC--14			
440 V	I _e	A	3
AC-15			
220 V 230 V 240 V	I _e	A	3
DC-11			
Note			Making and breaking conditions to DC13, time constant as stated
L/R max. 15 ms		A	
24 V	I _e	A	1.5
L/R max. 50 ms		A	1.2
Conv. thermal current	I _{th}	A	6
Short-circuit rating without welding			
Note			When supplied directly from mains or transformer > 1000 VA
Max. fuse, make contacts		A gG/gL	6
Max. fuse, break contacts		A gG/gL	6

Magnet systems

Rated operational voltage	U _e	V	
AC			24 - 240
DC			24 - 240
Rated frequency AC		Hz	47 - 63
Tolerance AC operated min.		x U _c	0.85
Tolerance AC operated max.		x U _c	1.1
Tolerance DC operated min.		x U _c	0.7
Tolerance DC operated max.		x U _c	1.1
Power consumption			
Pick-up AC		VA	2
Sealing AC		VA	2
Pick-up DC		W	1.8
Sealing DC		W	1.8
Duty factor		% DF	100
Maximum operating frequency		Ops/h	4000
Minimum command time			
AC		ms	50
DC		ms	30
Repetition accuracy (deviation)		%	± 0.5
Recovery time (after 100% time delay)		ms	70

Electromagnetic compatibility (EMC)

Air discharge		kV	8
Contact discharge		kV	6

Electromagnetic fields (IEC/EN 61000-4-3, RFI)	V/m	10
Radio interference suppression (EN 55011)		EN 55011 Class A
Burst Impulse (IEC/EN 61000-4-4, Level 3)		2
power pulses (surge) (IEC/EN 61000-4-5, level 2)	kV	1
Immunity to line-conducted interference to (IEC/EN 61000-4-6)	V	10

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	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	1.8
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 6.0

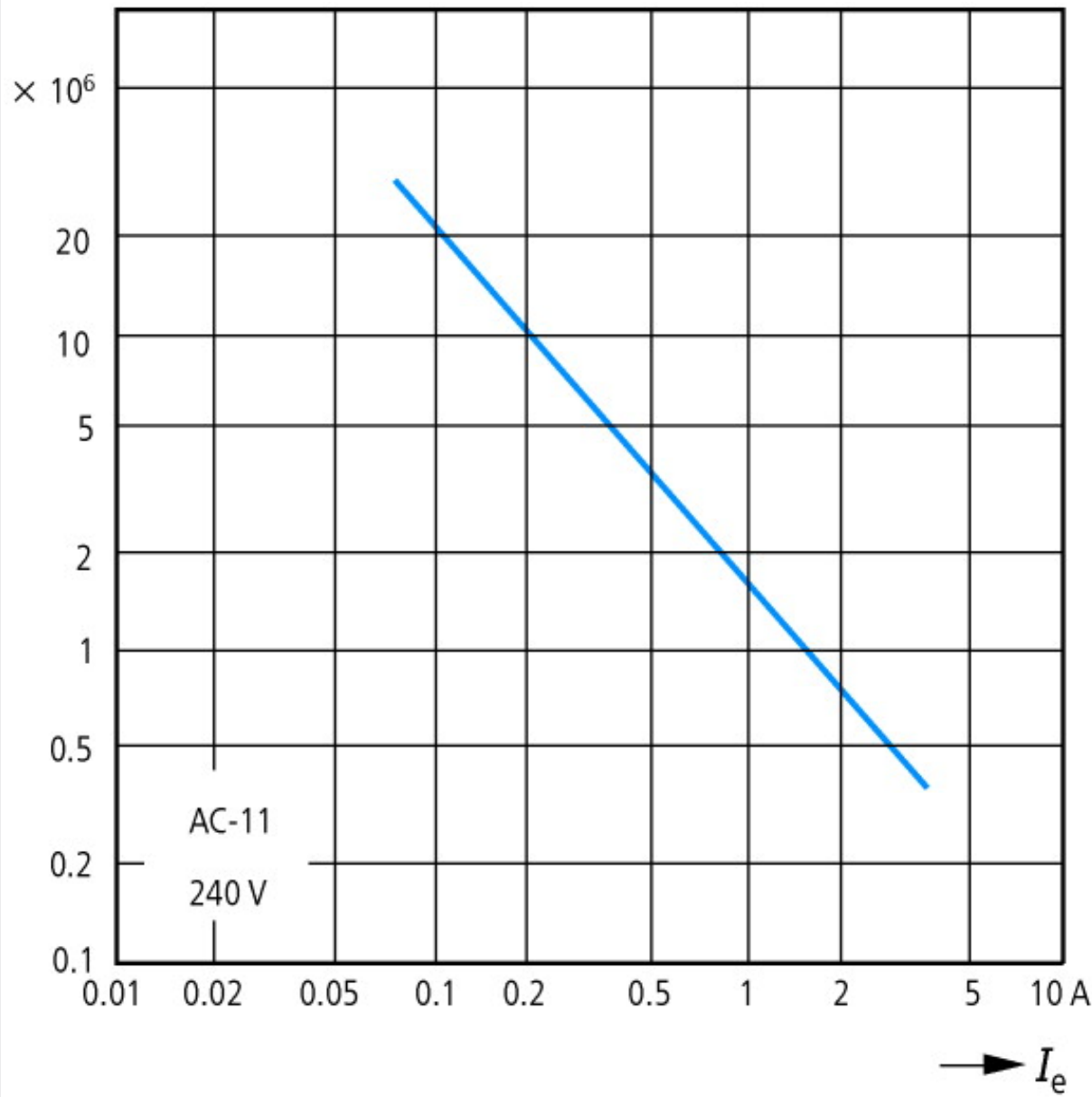
Relays (EG000019) / Timer relay (EC001439)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Relay and socket / Timed relay (ecl@ss8.1-27-37-16-05 [AKF092010])			
Type of electric connection			Screw connection
Function delay-on energization			Yes
Function delay on de-energization			No
Function floating contact on energization			No
Function floating contact on de-energization			No
Function star-delta			No
Function pulse shaping			No
Function flashing, starting with pause, fixed time			No
Function flashing, starting with pulse, fixed time			No

Clock function, starting with pause, variable			No
Clock function, starting with pulse, variable			No
With plug-in socket			No
Remote operation possible			No
Suitable only for remote control			No
Pluggable on auxiliary contact block			No
Rated control supply voltage Us at AC 50HZ		V	24 - 240
Rated control supply voltage Us at AC 60HZ		V	24 - 240
Rated control supply voltage Us at DC		V	24 - 240
Voltage type for actuating			AC/DC
Time range		s	1.5 - 30
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			1
Outputs, reversible delayed/undelayed			No
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: -

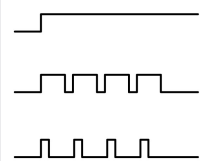
Characteristics



Component lifespan (operations)
 I_e = Rated operational current

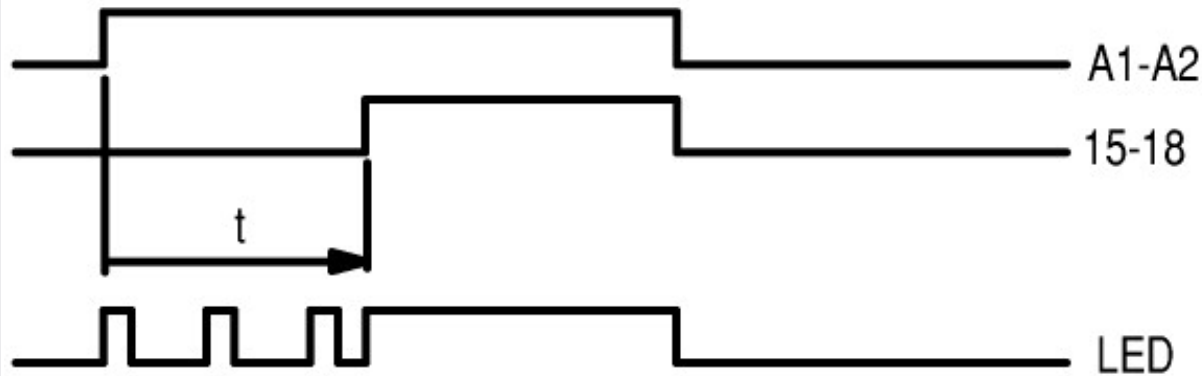
Flow diagram for timing functions

LED legend

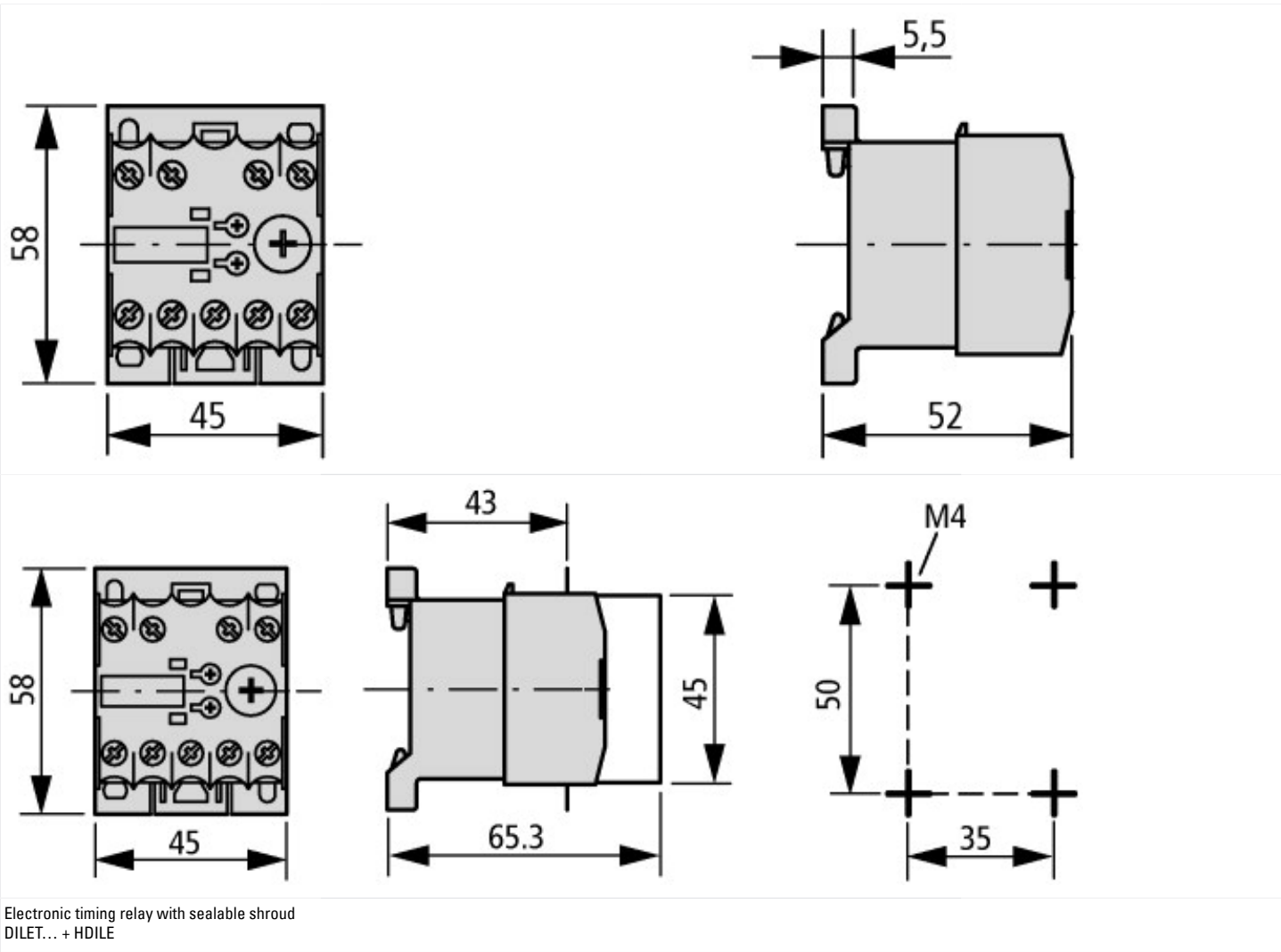


- ① A2/A1 linked
- ② A2/A1 not linked

11 On-delayed



Dimensions



Additional product information (links)

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