

## DATASHEET - DILET11-30-A



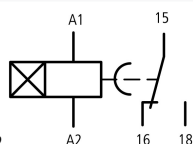
Timing relay, 1W, 1.5-30s, on-delayed, 24-240VAC/DC

**EATON**  
Powering Business Worldwide™

**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
<b>Rated operational current</b>				
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

<b>General</b>				
Standards				Standard IEC/EN 61812 VDE 0435
Lifespan, mechanical				
AC operated	Operations	$\times 10^6$		30
DC operated	Operations	$\times 10^6$		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 <sup>2</sup>		
Solid		mm <sup>2</sup>		1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Flexible with ferrule		mm <sup>2</sup>		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 $\cos \varphi = 0.3$ 400 V		A	48
AC-15 $\cos \varphi = 0.3$ 220 V		A	50
DC-11 L/R - 40 ms		$\times I_e$	1.1
Breaking capacity			
AC-14 $\cos \varphi = 0.3$ 440 V		A	3
AC-15 $\cos \varphi = 0.3$ 220 V		A	3
DC-11 L/R - 40 ms		$\times I_e$	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.		$\times U_c$	0.85
Tolerance AC operated max.		$\times U_c$	1.1
Tolerance DC operated min.		$\times U_c$	0.7
Tolerance DC operated max.		$\times U_c$	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)		%	$\leq 0.5$
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

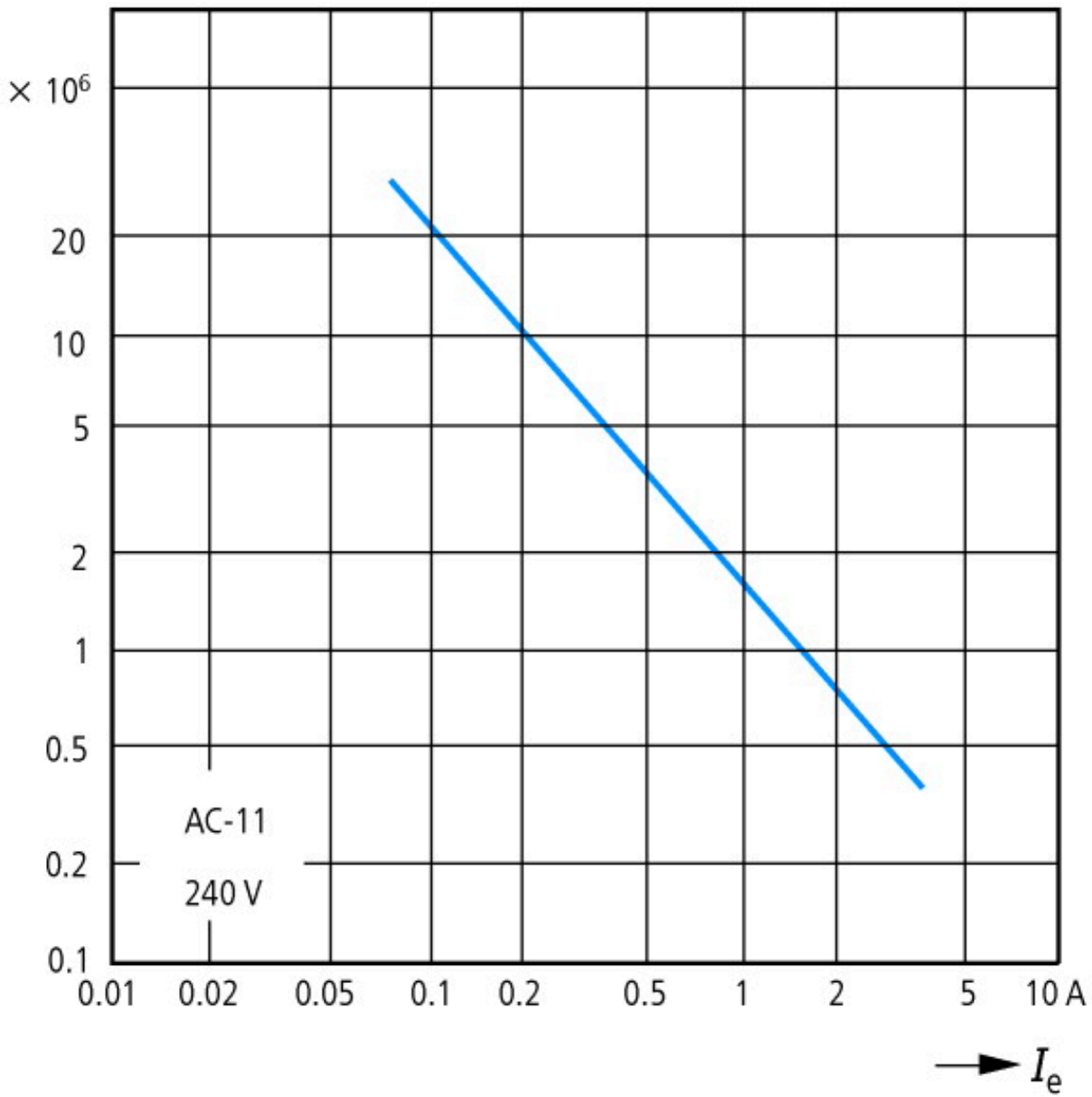
Relays (EG000019) / Timer relay (EC001439)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Relay and socket / Timed relay (ecl@ss8.1-27-37-16-05 [AKF092010])		
Type of electric connection		Screw connection
Function delay-on energization		Yes
Function 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: -

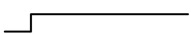
Characteristics



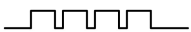
Component lifespan (operations)  
 $I_e$  = Rated operational current

Flow diagram for timing functions

LED legend



Time not running, contact 15 – 18 closed



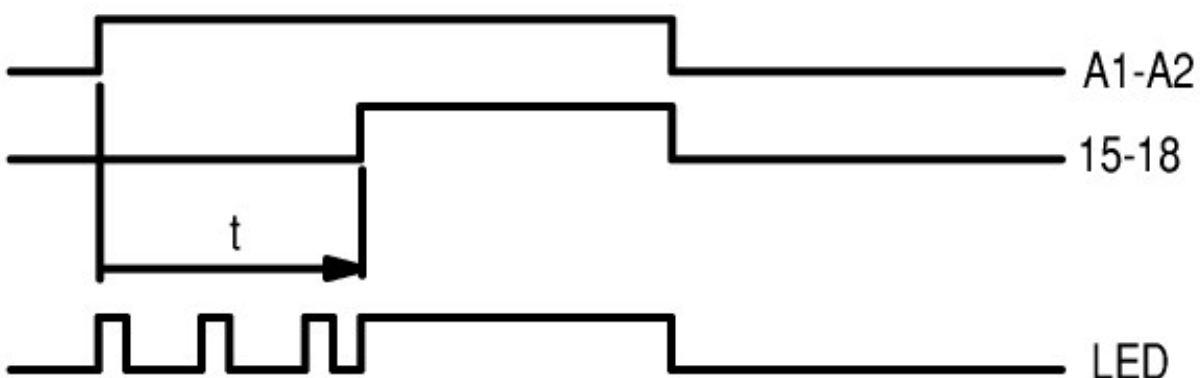
Time running, contact 15 – 18 closed



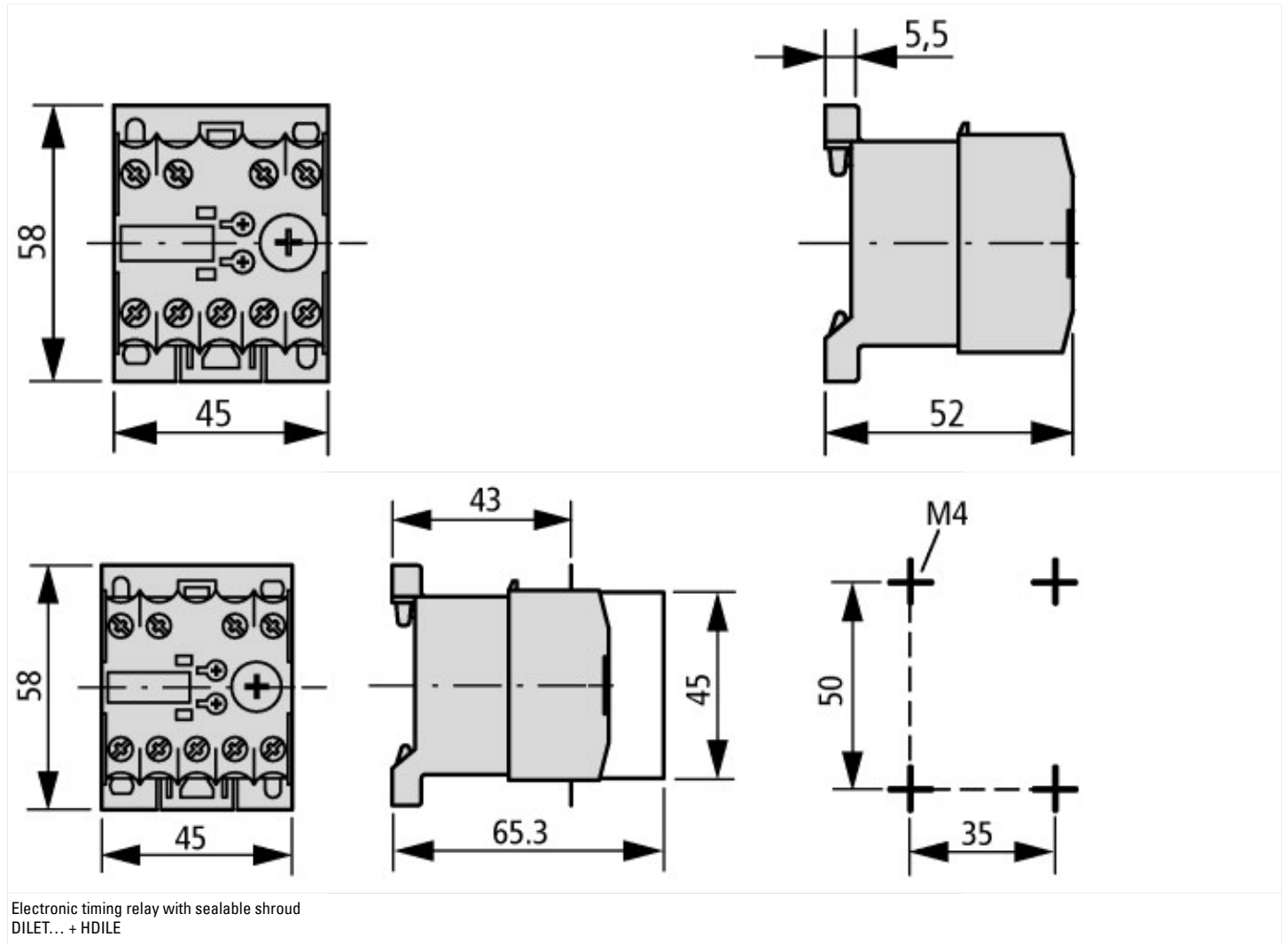
Time running, contact 15 – 18 not closed

- ① A2/A1 linked
- ② A2/A1 not linked

11 On-delayed



Dimensions



Electronic timing relay with sealable shroud  
DILET... + HDILE



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