



TIMING RELAYS ETR4-70

Part no.
Article no.

ETR4-70-A
031888

Catalog No.

XTTR6A100H70B



Powering Business Worldwide™

Delivery programme

Product range
Basic function
Function

ETR4 timing relays
Timer relays
Multi-functional
On-delayed
Off-delayed
Fleeting contact on energization
Fleeting contact on de-energization
Flashing, pulse initiating
On- and Off-delayed
Pulse forming
Pulse generating
with connection for potentiometer
Changeover contact can be converted
to 2 timed contacts or 1 non-delayed
contact and 1 timed contact
2
0.05 s - 100 h
0.05 - 1 s
0.15 - 3 s
0.5 - 10 s
1.5 - 30 s
5 - 100 s
15 - 300 s
1.5 - 30 min
15 - 300 min
1.5 - 30 h
5 - 100 h

Number of changeover contacts
Time range
Time range

Rated operational current
AC-15
220 V 230 V 240 V
Voltage range

I_e
 U_{LN}

A
V

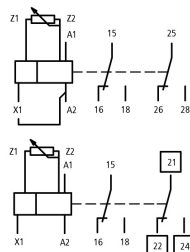
3
24 - 240 V AC, 50/60 Hz
24 - 240 V DC

Width
Conventional thermal current

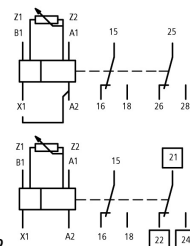
I_{th}

mm
A

22.5
6



Terminal marking according to EN 50042



Terminal marking according to EN 50042

Approvals

Product Standards
UL File No.
UL Category Control No.
CSA File No.
CSA Class No.
North America Certification
Degree of Protection
shipping classification

IEC/EN 60947-...; UL 508; CSA-22.2 No. 14-05; CE marking
E29184
NKCR
12528
3211-03
UL listed, CSA certified
IEC: IP20, UL/CSA Type: -
GL



Germanischer Lloyd

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	°C	
Ambient temperature, storage	°C	- 45 - + 60
Open	°C	- 25 - + 60
Enclosed	°C	- 25 - + 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	0.1
Terminal capacities	mm ²	
Solid	mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrule	mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Solid or stranded	AWG	1 x (20 - 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)	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

Max. fuse, make contacts

Max. fuse, break contacts

Max. overcurrent protective device, 220/230 V

		When supplied directly from mains or transformer > 1000 VA
	A gG/ gL	6
	A gG/ gL	6
	Type	FAZ-B4/1-HI

Magnet systems

Voltage tolerance

Pick-up voltage

Min. pick-up voltage, AC operated

Pick-up voltage AC operated, max.

Pick-up voltage DC operated, min.

Max. pick-up voltage, DC operated

Power consumption

Pick-up AC

Sealing AC

Pick-up DC

Sealing DC

Duty factor

Maximum operating frequency

Minimum command time

AC

DC

Repetition accuracy (deviation)

Recovery time (after 100% time delay)

Contact changeover time

	x U _c	
	x U _s	
	x U _c	0.85
	x U _c	1.1
	x U _c	0.7
	x U _c	1.1
	VA	2
	VA	2
	W	1.8
	W	1.8
	% DF	100
	Ops/ h	4000
	ms	50
	ms	30
	%	≤ 0.5
	ms	70
t _u	ms	4

Technical data ETIM 5.0

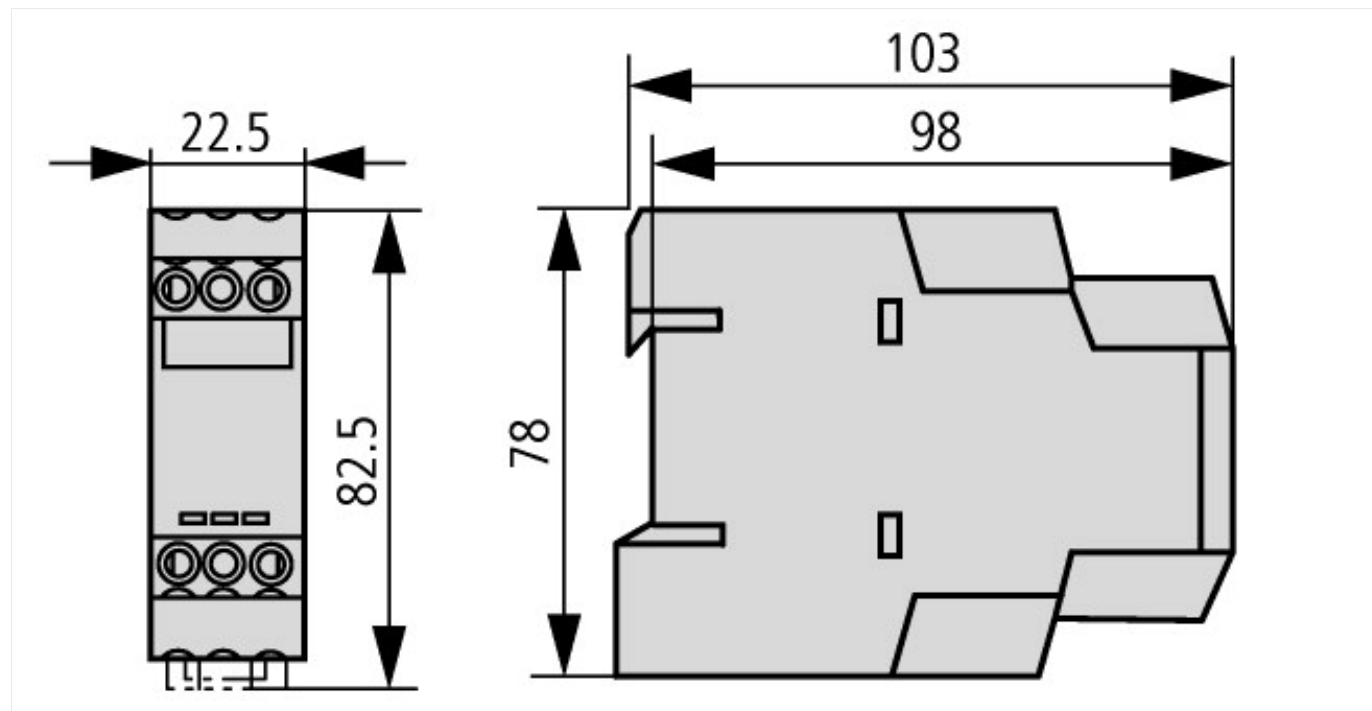
Relays (EG000019) / Timer relay (EC001439)

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 U _s at AC 50HZ	V	24 - 240
Rated control supply voltage U _s at AC 60HZ	V	24 - 240
Rated control supply voltage U _s at DC	V	24 - 240
Voltage type for actuating		AC/DC
Time range	s	0.05 - 360000
Number of outputs, undelayed, normally closed contact		0
Number of outputs, undelayed, normally open contact		0
Number of outputs, undelayed, change-over contact		2
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
Width	mm	23
Height	mm	83
Depth	mm	103

Dimensions



Additional product information (links)

IL04910002Z (AWA2527-1493) Multi-function relay		
IL04910002Z (AWA2527-1493) Multi-function relay	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04910002Z2011_04.pdf	