

TIMING RELAYS ETR4-70

ETR4-70-A 031888



Catalog No.

Part no.

Article no.

XTTR6A100H70B

Delivery programme

Product range Basic function Function

Number of changeover contacts

Time range

Time range

Rated operational current

AC-15

220 V 230 V 240 V

Voltage range

Width Conventional thermal current I_e U_{LN}

 I_{th}

mm

٧

ETR4 timing relays

Timer relays
Multi-functional
On-delayed

On-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

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

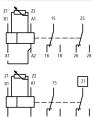
5 - 100 h

24 - 240 V AC, 50/60 Hz

24 – 240 V DC 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: -



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		7.0	III/2
Rated insulation voltage	Ui	V	600
Rated operational voltage	U _e	AC V	440
	-6	AC	
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	250
between the auxiliary contacts		٧	250
Making capacity		AC	
AC-14 $\cos \varphi = 0.3400 \text{ V}$		Α	48
AC-15 $\cos \varphi = 0.3220 \text{ V}$		A	50
DC-11 L/R - 40 ms			1.1
Breaking capacity		x l _e	
AC-14 cos φ = 0.3 440 V		Α	3
AC-15 $\cos \varphi = 0.3 \ 220 \ V$		A	3
DC-11 L/R - 40 ms		x I _e	1.1
Rated operational current		A A	
AC14	l _e	^	
440 V		Α	2
AC-15	l _e	A	3
220 V (230 V)		۸	2
DC-11	l _e	Α	3
Note			Making and breaking conditions to PO10 times
L/R max. 15 ms		Λ	Making and breaking conditions to DC13, time constant as stated
24 V		A	15
L/R max. 50 ms	l _e	A	1.5
Conv. thermal current		A	1.2
Short-circuit rating without welding	I _{th}	Α	6
S.S. Silvate rating water wolding			

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
Max. overcurrent protective device, 220/230 V	Туре	FAZ-B4/1-HI

Magnet systems

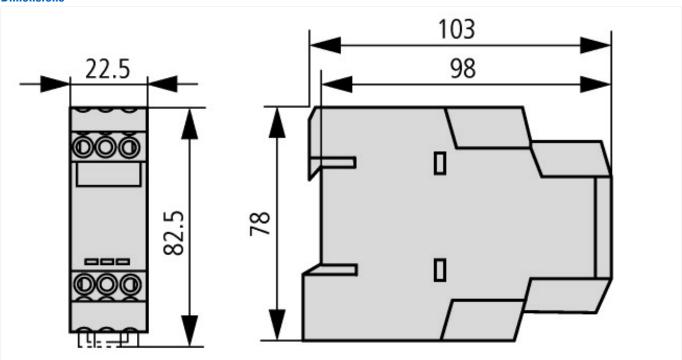
waynet systems			
Voltage tolerance		xU_c	
Pick-up voltage		xU_s	
Min. pick-up voltage, AC operated		x U	0.85
Pick-up voltage AC operated, max.		x U	1.1
Pick-up voltage DC operated, min.		x U _c	0.7
Max. pick-up voltage, DC operated		x U _c	1.1
Power consumption			
Pick-up AC		VA	2
Sealing AC		VA	2
Pick-up 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
Contact changeover time	t _u	ms	4

Technical data ETIM 5.0

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Relays (EG000019) / Timer relay (EC001439)		
Electric engineering, automation, process control engineering /	Low-voltage switch technology / Relay and socket / Time	ed 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		Yes
energization		
Function floating contact on de-		Yes
energization		
Function star-delta		No
Function pulse shaping		Yes
Function flashing, starting with pause,		Yes
fixed time		
Function flashing, starting with pulse,		Yes
fixed time		
Clock function, starting with pause,		Yes
variable		
Clock function, starting with pulse,		Yes
variable		
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	V	24 - 240
50HZ		
Rated control supply voltage Us at AC	V	24 - 240
60HZ		
Rated control supply voltage Us at DC	V	24 - 240
Voltage type for actuating		AC/DC
Time range	S	0.05 - 360000
Number of outputs, undelayed,		0
normally closed contact		
Number of outputs, undelayed,		0
normally open contact		
Number of outputs, undelayed,		2
change-over contact		
Number of outputs, delayed, normally		0
closed contact		
Number of outputs, delayed, normally		0
open contact		

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) Multifunction relay ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04910002Z2011_04.pdf