

TIMING RELAY ETR4-51

Part no.

Article no.

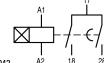
ETR4-51-A 031884



Catalog No. XTTR6A60S51B

Delivery programme

zonion, programmo			
Product range			ETR4 timing relays
Basic function			Timer relays
Function			Star-delta switching
			Changeover contact with a changeover time of 50 ms
Number of changeover contacts			1
Time range			3 - 60 s
Time range			3 - 60 s
Rated operational current			
AC-11			
400 V	l _e	Α	3
AC-15			
220 V 230 V 240 V	l _e	Α	3
380 V 400 V 415 V	l _e	Α	3
Voltage range	U _{LN}	V	24 - 240 V AC, 50/60 Hz 24 – 240 V DC
Width		mm	22.5
Conventional thermal current	I _{th}	Α	6



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

IEC/EN 61812-1; IEC/EN 60947-5-1; UL 508; CSA-22.2 No. 14-05; CE marking E29184
NKCR
12528
3211-03
UL listed, CSA certified
IEC: IP20, UL/CSA Type: -

General

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)
		111111	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		7100	17(20-11)
Rated impulse withstand voltage	U_{imp}	٧	6000
		AC	
Overvoltage category/pollution degree			III/2
Rated insulation voltage	U _i	V AC	600
Rated operational voltage	U _e	٧	440
		AC	
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	250
between the auxiliary contacts		٧	250
		AC	
Making capacity			
AC-14 $\cos \varphi = 0.3400 \text{ V}$		Α	48
AC-15 $\cos \varphi = 0.3 220 \text{ V}$		Α .	50
DC-11 L/R - 40 ms		x I _e	1.1
Breaking capacity			
AC-14 $\cos \varphi = 0.3440 \text{ V}$		Α	3
AC-15 $\cos \varphi = 0.3 220 \text{ V}$		Α .	3
DC-11 L/R - 40 ms		x l _e	1.1
Rated operational current	I _e	Α	
AC14			
440 V	I _e	Α	3
AC-15			
220 V (230 V)	l _e	Α	3
DC-11			
Note			Making and breaking conditions to DC13, time constant as stated
L/R max. 15 ms		A	
24 V	I _e	Α	1.5
L/R max. 50 ms		A	1.2
Conv. thermal current	I _{th}	Α	6
Short-circuit rating without welding			
Note		Δ.	When supplied directly from mains or transformer > 1000 VA
Max. fuse, make contacts		A gG/	6
		gL	
Max. fuse, break contacts		A gG/	6
		gL	
Max. overcurrent protective device, 220/230 V		Type	FAZ-B4/1-HI
Magnet systems		vII	
Voltage tolerance		x U _c	
Pick-up voltage		x U _s	***
Min. pick-up voltage, AC operated		x U	0.85
Pick-up voltage AC operated, max.		хU	1.1
		С	
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

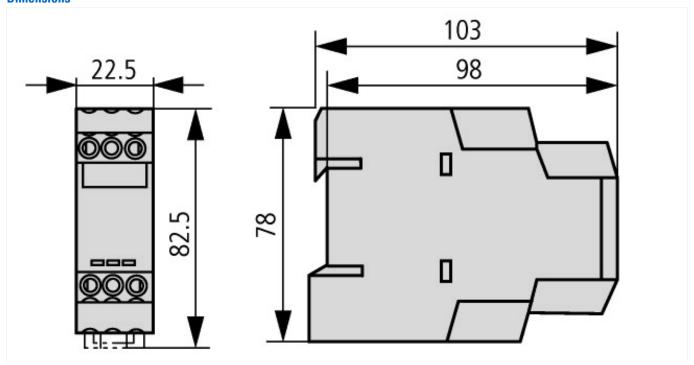
Sealing AC		VA	2
Pick-up DC		W	1.8
Sealing DC		W	1.8
Duty factor		% DF	100
Maximum operating frequency		Ops/ h	4000
Minimum command time			
AC		ms	50
DC		ms	30
Repetition accuracy (deviation)		%	≦ _{0.5}
Recovery time (after 100% time delay)		ms	70
Contact changeover time	t _u	ms	50

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		No
Function delay on de-energization		No
Function floating contact on energization		No
Function floating contact on de- energization		No
Function star-delta		Yes
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	3 - 60
Number of outputs, undelayed, normally closed contact		0
Number of outputs, undelayed, normally open contact		1
Number of outputs, undelayed, change-over contact		0
Number of outputs, delayed, normally closed contact		0
Number of outputs, delayed, normally open contact		1
Number of outputs, delayed, change- over contact		0
Outputs, reversible delayed/undelayed		No
With semiconductor output		No
Width	mm	23
Height	mm	83
Depth	mm	103

Dimensions



Additional product information (links)

IL04910001Z (AWA2527-1485) Timing relay, star-delta relay, multifunction relay

IL04910001Z (AWA2527-1485) Timing relay, star-delta relay, multifunction relay

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04910001Z2011_04.pdf