

TIMING RELAY ETR4-51

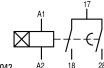
Powering Business Worldwide[™]

Part no. ETR4-51-W

031885 Article no.

Delivery programme

Delivery programme			
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	le	Α	3
AC-15			
220 V 230 V 240 V	I _e	Α	3
380 V 400 V 415 V	I _e	Α	3
Voltage range	U _{LN}	V	400 V AC, 50/60 Hz
Width		mm	22.5
Conventional thermal current	I _{th}	Α	6



Terminal marking according to EN 50042

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)

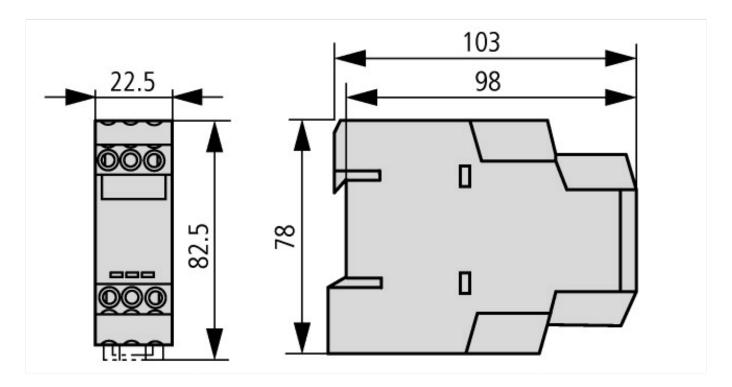
Solid or stranded		AWG	1 x (20 - 14)
Contacts			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/2
Rated insulation voltage	Ui	V AC	600
Rated operational voltage	U _e	V AC	440
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between coil and auxiliary contacts		V AC	250
between the auxiliary contacts		V AC	250
Making capacity			
AC-14 $\cos \varphi = 0.3400 \text{ V}$		Α	48
AC-15 $\cos \varphi = 0.3220 \text{ V}$		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 ϕ = 0.3 220 V		Α	3
DC-11 L/R - 40 ms		x I _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	
220 V 230 V 240 V	I _e	Α	3
DC-11			
Note			Making and breaking conditions to DC13, time constant as stated
L/R max. 15 ms		Α	3 3 3
24 V	I _e	Α	1.5
L/R max. 50 ms	•	Α	1.2
Conv. thermal current	I _{th}	Α	6
Short-circuit rating without welding	ui		
Note			When supplied directly from mains or transformer > 1000 VA
Max. fuse, make contacts		Α	1.11.01.02ppi30 4.1004 / 1.011.11.11.10 6.1 4.41.01.11.11.1 / 1.000 4.1
man (dos) mano sonado		gG/ gL	
max. fuse		A gG/	6
		gL	
Max. fuse, break contacts		A gG/ gL	
Fuse		A gG/ gL	6
Max. overcurrent protective device, 220/230 V		Part no.	
Fuseless		Туре	FAZ-B4/1-HI
Magnet systems			
Rated operational voltage	U _e	V	
AC			400
Rated frequency AC		Hz	47 - 63
Tolerance AC operated min.		x U _c	0.85
Tolerance AC operated max.		x U _c	1.1
Voltage tolerance		x U _c	
Pick-up voltage		x U _s	
Min. pick-up voltage, AC operated		хU	0.85
		С	

Pick-up voltage AC operated, max.		x U	1.1
		С	
Power consumption			
Pick-up AC		VA	0.5
Sealing AC		VA	0.5
Duty factor		% DF	100
Maximum operating frequency		Ops/ h	4000
Minimum command time			
AC		ms	50
Repetition accuracy (deviation)		%	≦ _{0.5}
Recovery time (after 100% time delay)		ms	70
Contact changeover time	t _u	ms	50

Technical data ETIM 4.0

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Number of outputs, delayed, N/O		1
Remote access possible		No
Number of outputs, non-delayed, N/O		1
Function off-delayed		No
Outputs, reversible delayed/non-delayed		No
Type of electric connection		Screw connection
Number of outputs, non-delayed, N/C		0
Rated control voltage Us at DC	V	0
Clock function, starting with pulse, variable		No
Voltage type for actuation		AC
Function flashing, starting with pulse, fixed time		No
Function pulse shaping		No
Rated control voltage Us at AC 50HZ	V	400
Time range	s	60
Number of outputs, non-delayed, change-over contact		0
With semi-conductor output		No
Suitable only for remote control		No
Function flashing starting with pause, fixed time		No
Plug-in type on auxiliary contact block		No
Width	mm	23
With plug-in socket		No
Function fleeting contact on energization		No
Function star/delta		YES
Rated control voltage Us at AC 60HZ	V	400
Function fleeting contact on de-energization		No
Function on-delayed		No
Height	mm	83
Depth	mm	103
Function cyclic starting with pause, variable		No
Number of outputs, delayed, N/C		0
Number of outputs, delayed, changeover contact		0

Dimensions



Additional product information (links)

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

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