Product datasheet Characteristics

RE22R1QCMU

Star-Delta Timing Relay - 0.05s...300s - 24V DC / 24...240V AC - 1C/O



Price*: 42.18 GBP



Main

		4 -
Range of product	Zelio Time	
Product or component type	Modular timing relay	
Discrete output type	Relay	
Device short name	RE22). . <u>.</u>
Nominal output current	8 A	

Complementary

Contacts type and composition	1 C/O timed contact, cadmium free	,
Time delay type	Qc	and is not to be used for determining
Time delay range	10100 s	
	330 s	d f
	0.11 s	esn
	0.33 s	- Pe
	0.050.5 s	\$
	110 s	2
	30300 s	. <u>s</u> .
Control type	Rotary knob	
	Diagnostic button	substitute for
[Us] rated supply voltage	24 V DC	
	24240 V AC 50/60 Hz	 ຄ ທ
Release input voltage	<= 2.4 V	ed as
Voltage range	0.851.1 Us	ntend
Supply frequency	5060 Hz +/- 5 %	not ii
Connections - terminals	Screw terminals, 1 x 0.51 x 3.3 mm² (AWG 20AWG 12) solid without cable end	documentation is not intended a
	Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end	ntat
	Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end	je j
	Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end	ocn
Tightening torque	0.61 N.m conforming to IEC 60947-1	This c
Housing material	Self-extinguishing	mer:]
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1	sclaimer:

Temperature drift	+/- 0.05 %/°C
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Recovery time	120 ms on de-energisation
Immunity to microbreaks	10 ms
Power consumption in VA	35 VA at 240 V AC
Power consumption in W	0.6 W at 24 V DC
Switching capacity in VA	2000 VA
Minimum switching current	10 mA at 5 V DC
Maximum switching current	8 A
Maximum switching voltage	250 V AC
Electrical durability	100000 cycles, 8 A at 250 V, AC-1 100000 cycles, 2 A at 24 V, DC-1
Mechanical durability	10000000 cycles
Rated impulse withstand voltage	5 kV for 1.250 μs conforming to IEC 60664-1
Power on delay	100 ms
Creepage distance	4 kV/3 conforming to IEC 60664-1
Overvoltage category	III conforming to IEC 60664-1
Safety reliability data	MTTFd = 285.3 years B10d = 270000
Mounting position	Any position
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Status LED	LED backlight green (steady) for dial pointer indication LED yellow (steady) for output relay energised LED yellow (fast flashing) for timing in progress and output relay de-energised LED yellow (slow flashing) for timing in progress and output relay energised
Width	22.5 mm
Product weight	0.08 kg

Environment

Environment		
Dielectric strength	2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation conforming to IEC 61812-1	
Standards	UL 508 IEC 61812-1	
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive	
Product certifications	GL China RoHS CE CCC EAC UL CSA RCM	
Ambient air temperature for operation	-2060 °C	
Ambient air temperature for storage	-4070 °C	
IP degree of protection	IP40 housing: conforming to IEC 60529 IP50 front face: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529	
Pollution degree	3 conforming to IEC 60664-1	
Vibration resistance	20 m/s² (f= 10150 Hz) conforming to IEC 60068-2-6	
Shock resistance	15 gn not operating for 11 ms conforming to IEC 60068-2-27 5 gn in operation for 11 ms conforming to IEC 60068-2-27	
Relative humidity	95 % at 2555 °C	
Electromagnetic compatibility	Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4 Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5	

Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3

Conducted RF disturbances - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6 Fast transient bursts - test level: 2 kV level 3 (direct contact) conforming to IEC 61000-4-4 Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61000-4-11

Offer Sustainability

Sustainable offer status	Green Premium product	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

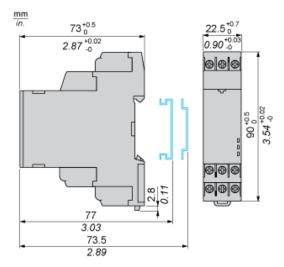
Contractual warranty

warranty 18 months	Warranty	18 months
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Product datasheet Dimensions Drawings

RE22R1QCMU

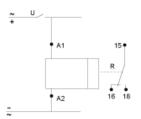
Dimensions



Product datasheet Connections and Schema

RE22R1QCMU

Wiring Diagram



Product datasheet Technical Description

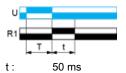
RE22R1QCMU

Function Qc: Star-Delta Relay (1 CO)

Description

On energisation of power supply, the output R initializes at its initial state such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts). At the end of the timing period T, the output R closes such that deenergizes STAR CONTACTOR and deenergizes the power supply causes t transition time starts. At the end of the transition time, the output R reverts to its initial state such that energizes DELTA CONTACTOR.

Function: 1 Output



Legend

Relay de-energised

Relay energised

Output open

Output closed

U - Supply

T - Timing period

t - Delay to switch ON Delta contact output

R1 - Star-Delta contact output