

Product data sheet

Specifications



time delay relay for star-delta starter - 20..140 ms - 230/380 V AC - 1 contact

RE88865176

 **Discontinued on:** Dec 1, 2014

 **Discontinued**

Main

Range Of Product	Zelio Time
Product Or Component Type	Industrial timing relay
Contacts Type And Composition	1 C/O timed contact, AgNi (cadmium free)
Component Name	RE88865
Time Delay Type	Q
Time Delay Range	10 h 100 h 1 s 1 min 1 h 10 s 10 min

Complementary

Discrete Output Type	Relay
Width Pitch Dimension	0.89 in (22.5 mm)
Non-Overlap Time	120 ms 140 ms 100 ms 40 ms 60 ms 20 ms 80 ms
[Us] Rated Supply Voltage	230...380 V AC 50/60 Hz
Voltage Range	0.85...1.1 Us
Connections - Terminals	Screw terminals, 2 x 1.5 mm ² with cable end Screw terminals, 2 x 2.5 mm ² without cable end
Housing Material	Self-extinguishing
Repeat Accuracy	+/- 0.5 % IEC 61812-1
Temperature Drift	+/- 0.05 %/°C
Voltage Drift	+/- 0.2 %/V
Setting Accuracy Of Time Delay	+/- 10 % of full scale 25 °C IEC 61812-1
Minimum Pulse Duration	100 ms under load 30 ms
Maximum Reset Time	100 ms on de-energisation
On-Load Factor	100 %
Breaking Capacity	2000 VA

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Breaking Capacity	80 W
Minimum Switching Current	10 mA
Maximum Switching Current	8 A
Maximum Switching Voltage	250 V
Electrical Durability	100000 cycles 8 A, 250 V resistive
Mechanical Durability	5000000 cycles
[Uimp] Rated Impulse Withstand Voltage	5 kV 1.2...50 µs IEC 60664-1 5 kV 1.2...50 µs IEC 61812-1
Marking	CE
Creepage Distance	4 kV/3 IEC 60664-1
Surge Withstand	1 kV differential mode IEC 61000-4-5 level 3 2 kV common mode IEC 61000-4-5 level 3
Mounting Support	35 mm symmetrical mounting rail conforming to EN 50022
Local Signalling	for flashing: timing in progress LED indicator (green) for on steady: relay energised, no timing in progress LED indicator (green) for pulsing: relay energised, no timing in progress LED indicator (green)
Net Weight	0.20 lb(US) (0.09 kg)

Environment

Immunity To Microbreaks	10 ms
Dielectric Strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
Standards	IEC 60669-2-3 EN 50081-1/2 89/336/EEC 73/23/EEC 93/68/EEC IEC 61812-1 EN 50082-1/2
Product Certifications	cULus CSA GL
Ambient Air Temperature For Operation	-4...140 °F (-20...60 °C)
Ambient Air Temperature For Storage	-22...140 °F (-30...60 °C)
Ip Degree Of Protection	IP20 IEC 60529 terminal block) IP40 IEC 60529 housing) IP50 IEC 60529 front face)
Vibration Resistance	0.35 mm 10...55 Hz)IEC 60068-2-6
Relative Humidity	93 % without condensation IEC 60068-2-3
Resistance To Electrostatic Discharge	6 kV in contact EN/IEC 61000-4-2 level 3 8 kV in air EN/IEC 61000-4-2 level 3
Resistance To Electromagnetic Fields	9.14 V/m (10 V/m) 80 MHz to 1 GHz ENV 50140/204 level 3 9.14 V/m (10 V/m) 80 MHz to 1 GHz IEC 61000-4-3 level 3
Resistance To Fast Transients	1 kV IEC 61000-4-4 level 3 capacitive connecting clip) 2 kV IEC 61000-4-4 level 3 direct)
Immunity To Radioelectric Fields	10 V 0.15...80 MHz)ENV 50141 (IEC 61000-4-6)
Immunity To Voltage Dips	30 % / 10 ms IEC 61000-4-11 60 % / 100 ms IEC 61000-4-11 95 % / 5 s IEC 61000-4-11
Disturbance Radiated/Conducted	Class B EN 55022 (EN 55011 group 1)

Ordering and shipping details

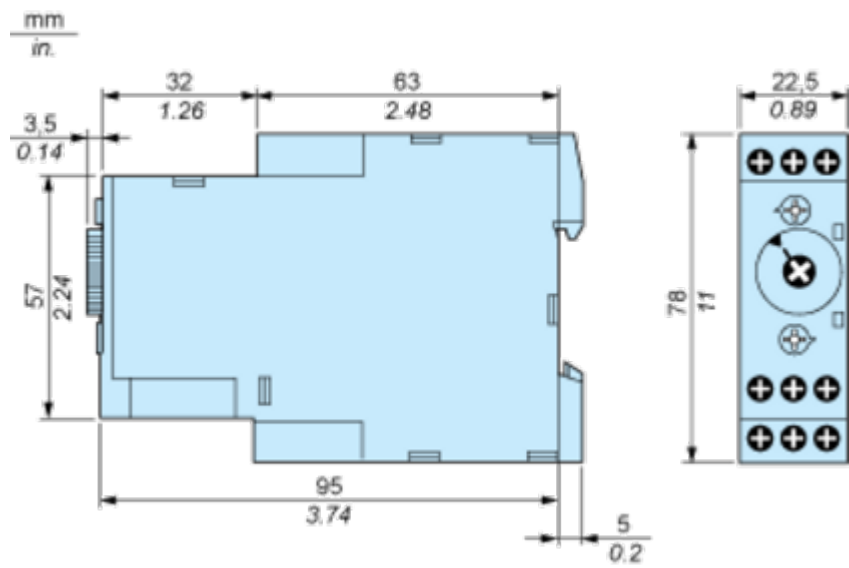
Category	22370-RE, RM MISC TIMERS & COUNTERS
Discount Schedule	CP2
Gtin	3389110278491
Returnability	No
Country Of Origin	FR

Contractual warranty

Warranty	18 months
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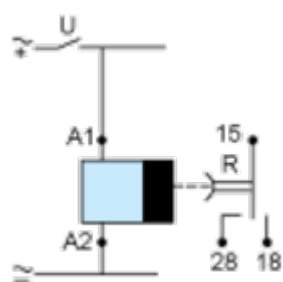
Dimensions Drawings

Width 22.5 mm



Connections and Schema

Wiring Diagram

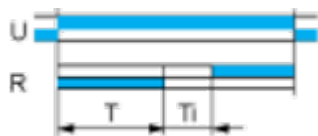


Technical Description

Function Q: Star-Delta Starting

Description

On energisation, the star contact closes instantaneously during the timing period T. At the end of the timing period, the star contact opens. At the end of the timing period Ti (interswitching time), while the contact is open, the delta contact closes and remains in this position.



Legend

-  Relay de-energised
-  Relay energised
-  Output open
-  Output closed

C	Control contact
G	Gate
R	Relay or solid state output
R1/R2	2 timed outputs
R2 inst.	The second output is instantaneous if the right position is selected
T	Timing period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply