

# Product datasheet

Specifications



## time delay relay for star-delta starter - 20..140 ms - 24..240 V AC - 1 contact

RE88865175

⚠ Discontinued on: Dec 1, 2014 AD

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### 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	100 h 10 s 1 s 1 h 10 h 1 min 10 min

### Complementary

Discrete output type	Relay
Width pitch dimension	22.5 mm
Non-overlap time	100 ms 40 ms 60 ms 120 ms 140 ms 20 ms 80 ms
[Us] rated supply voltage	24 V DC 24...240 V AC 50/60 Hz
Voltage range	0.85...1.1 Us
Connections - terminals	Screw terminals, 2 x 1.5 mm <sup>2</sup> with cable end Screw terminals, 2 x 2.5 mm <sup>2</sup> without cable end
Housing material	Polycarbonate
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1
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
Minimum pulse duration	100 ms under load 30 ms
maximum reset time	100 ms on de-energisation
On-load factor	100 %
maximum power consumption	32 VA at 240 V

<b>maximum power consumption</b>	0.6 W at 24 V 1.5 W at 240 V
<b>breaking capacity</b>	2000 VA
<b>breaking capacity</b>	80 W
<b>minimum switching current</b>	10 mA
<b>Maximum switching current</b>	8 A
<b>maximum switching voltage</b>	250 V
<b>Electrical durability</b>	100000 cycles at 8 A, 250 V for resistive load
<b>Mechanical durability</b>	5000000 cycles
<b>[Uimp] rated impulse withstand voltage</b>	5 kV for 1.2...50 µs conforming to IEC 60664-1 5 kV for 1.2...50 µs conforming to IEC 61812-1
<b>Marking</b>	CE
<b>Creepage distance</b>	4 kV/3 conforming to IEC 60664-1
<b>Surge withstand</b>	1 kV differential mode conforming to IEC 61000-4-5 level 3 2 kV common mode conforming to IEC 61000-4-5 level 3
<b>Mounting support</b>	35 mm symmetrical mounting rail conforming to EN 50022
<b>Local signalling</b>	LED indicator (green) 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
<b>Product weight</b>	0.09 kg

## Environment

<b>Immunity to microbreaks</b>	10 ms
<b>Dielectric strength</b>	2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
<b>Standards</b>	IEC 60669-2-3 89/336/EEC EN 50081-1/2 EN 50082-1/2 IEC 61812-1 93/68/EEC 73/23/EEC
<b>Product certifications</b>	CSA GL cULus
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Ambient air temperature for storage</b>	-30...60 °C
<b>IP degree of protection</b>	IP20 (terminal block) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front face) conforming to IEC 60529
<b>Vibration resistance</b>	0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6
<b>Relative humidity</b>	93 % without condensation conforming to IEC 60068-2-3
<b>Resistance to electrostatic discharge</b>	6 kV in contact conforming to EN/IEC 61000-4-2 level 3 8 kV in air conforming to EN/IEC 61000-4-2 level 3
<b>Resistance to electromagnetic fields</b>	10 V/m 80 MHz to 1 GHz conforming to ENV 50140/204 level 3 10 V/m 80 MHz to 1 GHz conforming to IEC 61000-4-3 level 3
<b>Resistance to fast transients</b>	1 kV (capacitive connecting clip) conforming to IEC 61000-4-4 level 3 2 kV (direct) conforming to IEC 61000-4-4 level 3
<b>Immunity to radioelectric fields</b>	10 V (0.15...80 MHz) conforming to ENV 50141 (IEC 61000-4-6)

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<b>Immunity to voltage dips</b>	30 % / 10 ms conforming to IEC 61000-4-11 60 % / 100 ms conforming to IEC 61000-4-11 95 % / 5 s conforming to IEC 61000-4-11
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<b>Disturbance radiated/conducted</b>	Class B conforming to EN 55022 (EN 55011 group 1)
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## **Contractual warranty**

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<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Longer



#### Lifetime extension

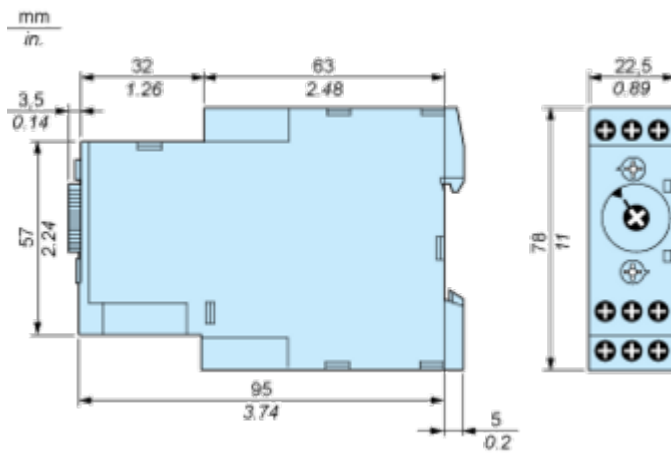
Repair

No

Dimensions Drawings

Width 22.5 mm

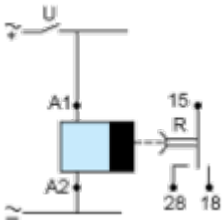
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Connections and Schema

Wiring Diagram

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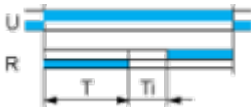
## Technical Description

### Function Q: Star-Delta Starting

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#### 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  $T_i$  (interswitching time), while the contact is open, the delta contact closes and remains in this position.



**Legend**

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-  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

Technical Illustration

Dimensions

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