



# 17.5MM TIMER RELAY 4 FUNCTION ABCH (FOR INDUSTRIAL CONSUMER)

RE10RMMU

### Main

| Range Of Product          | Harmony Relay        |
|---------------------------|----------------------|
| Product Or Component Type | Modular timing relay |
| Discrete Output Type      | Relay                |
| Component Name            | RE11R                |
| Time Delay Type           | D                    |
|                           | Н                    |
|                           | В                    |
|                           | Ht                   |
|                           | Ac                   |
|                           | Bw                   |
|                           | C                    |
|                           | Di                   |
|                           | At                   |
|                           | A                    |
| Time Delay Range          | 10100 h              |
|                           | 0.11 s               |
|                           | 110 h                |
|                           | 660 s                |
|                           | 110 s                |
|                           | 110 min              |
|                           | 660 min              |
| [Us] Rated Supply Voltage | 24 V DC              |
|                           | 24240 V AC 50/60 Hz  |
| Nominal Output Current    | 8 A                  |

# Complementary

| Contacts Material              | AgNi (cadmium free)                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Width Pitch Dimension          | 17.5 mm                                                                                                   |
| Control Type                   | Selector switch front panel                                                                               |
| Voltage Range                  | 0.851.1 Us                                                                                                |
| Connections - Terminals        | Screw terminals, 2 x 1.5 mm² without cable end<br>Screw terminals, 2 x 2.5 mm² + 1 x 4 mm² with cable end |
| Housing Material               | Self-extinguishing                                                                                        |
| 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 with load in parallel<br>30 ms                                                                     |
| Reset Time                     | 100 ms on de-energisation                                                                                 |

| On-Load Factor                         | 100 %                                                                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption In Va                | 32 VA at 240 V                                                                                                                                                                                                               |
| Power Consumption In W                 | 0.6 W at 24 V<br>1.5 W at 240 V                                                                                                                                                                                              |
| Minimum Switching Current              | 10 mA                                                                                                                                                                                                                        |
| Maximum Switching Current              | 8 A                                                                                                                                                                                                                          |
| Maximum Switching Voltage              | 250 V                                                                                                                                                                                                                        |
| Breaking Capacity                      | 2000 VA                                                                                                                                                                                                                      |
| Breaking Capacity                      | 80 W                                                                                                                                                                                                                         |
| Electrical Durability                  | 100000 cycles at 8 A, 250 V for resistive load                                                                                                                                                                               |
| Mechanical Durability                  | 5000000 cycles                                                                                                                                                                                                               |
| [Uimp] Rated Impulse Withstand Voltage | 5 kV for 1.250 μs conforming to IEC 60664-1<br>5 kV for 1.250 μs conforming to IEC 61812-1                                                                                                                                   |
| Marking                                | CE                                                                                                                                                                                                                           |
| Creepage Distance                      | 4 kV/3 conforming to IEC 60664-1                                                                                                                                                                                             |
| Mounting Support                       | 35 mm symmetrical mounting rail conforming to EN 50022                                                                                                                                                                       |
| Local Signalling                       | LED indicator green, flashing for timing in progress LED indicator green, steady for relay energised, no timing in progress LED indicator green, blinking for relay energised, no timing in progress (except functions Di-D) |
| Net Weight                             | 0.06 kg                                                                                                                                                                                                                      |
| Compatibility Code                     | RE10                                                                                                                                                                                                                         |

# **Environment**

| Immunity To Microbreaks               | 10 ms                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Dielectric Strength                   | 2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1                                                                  |
| Standards                             | IEC 60669-2-3<br>EN 50082-1/2<br>EN 50081-1/2<br>IEC 61812-1                                                                 |
| Directives                            | 93/68/EEC - low voltage directive 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility               |
| Product Certifications                | CSA<br>GL<br>cULus                                                                                                           |
| Ambient Air Temperature For Storage   | -3060 °C                                                                                                                     |
| Ambient Air Temperature For Operation | -2060 °C                                                                                                                     |
| Ip Degree Of Protection               | IP20 terminal block: conforming to IEC 60529 IP40 housing: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529 |
| Vibration Resistance                  | 0.35 mm (f= 1055 Hz) conforming to IEC 60068-2-6                                                                             |
| Relative Humidity                     | 93 % without condensation conforming to IEC 60068-2-3                                                                        |

#### **Electromagnetic Compatibility**

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
Electrical fast transient/burst immunity test - test level: 1 kV level 3 (capacitive

connecting clip) conforming to IEC 61000-4-4

Electrical fast transient/burst immunity test - test level: 2 kV level 3 (direct) 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

Conducted RF disturbances - test level: 10 V (0.15...80 MHz) conforming to IEC 61000-4-6  $\,$ 

Immunity to microbreaks and voltage drops - test level: 30 % (10 ms) conforming to IEC 61000-4-11

Immunity to microbreaks and voltage drops - test level: 60 % (100 ms) conforming to IEC 61000-4-11

Immunity to microbreaks and voltage drops - test level: 95% (5 s) conforming to IEC 61000-4-11

Conducted and radiated emissions class B group 1 conforming to EN 55022

### **Packing Units**

| Unit Type Of Package 1       | PCE    |
|------------------------------|--------|
| Number Of Units In Package 1 | 1      |
| Package 1 Height             | 8.4 cm |
| Package 1 Width              | 2.5 cm |
| Package 1 Length             | 8 cm   |
| Package 1 Weight             | 84.5 g |



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Transparency RoHS/REACh

# Well-being performance



Mercury Free



Rohs Exemption Information

Yes

### **Certifications & Standards**

| Reach Regulation         | REACh Declaration                                          |
|--------------------------|------------------------------------------------------------|
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation    | China RoHS declaration                                     |
| Environmental Disclosure | Product Environmental Profile                              |
| Circularity Profile      | End of Life Information                                    |

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