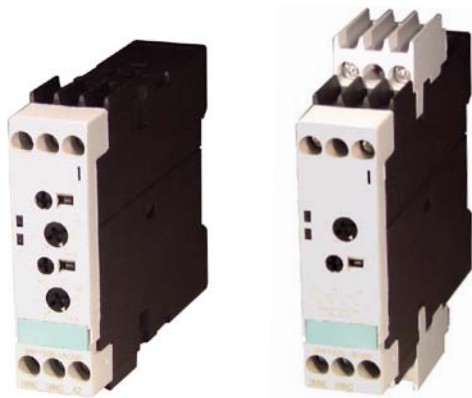


THIS DATA IS FOR REFERENCE PURPOSES ONLY
This Product's status is: OBSOLETE.
Tyco Electronics no longer offers the 3RP1 series.



Standards and Specifications

- IEC 721-3-3 "Ambient conditions"
- IEC 61812-1/DIN VDE 0435 Part 201 "Solid State Relays, Time Relays"
- IEC 1000 "electromagnetic compatibility"
- IEC 947-5-1: DIN VDE 0660 Part 200 "Low-voltage control circuit devices"

Timing Specifications

Timing Ranges: 0.05 to 1 / 0.15 to 3 / 0.5 to 10 / 1.5 to 30 / 5 to 100 sec.;
0.05 to 1 / 0.15 to 3 / 0.5 to 10 / 1.5 to 30 / 5 to 100 min.;
0.05 to 1 / 0.15 to 3 / 0.5 to 10 / 1.5 to 30 / 5 to 100 hr.

Timing Adjustment: Potentiometer adjustable within selected range.

Tolerance: ±5% of full scale value.

Reset Time: 150 ms.

Minimum On Period: 35 msec.

Repeatability: ± 1%.

Timing Modes

See the following page for a description of timing modes.

Configuring

- Changing the timer range and their functions will only be effective when they are carried out in a voltage-free state.
- Trigger input B1 or B3 must only be started when the supply voltage is applied.
- The same potential must be applied to A1 and B1, or A3 and B3. With the two-voltage design, only one voltage range must be connected.
- The triggering of the load paralleled to the start input is not permissible when using AC (see adjacent diagrams).

3RP1 series Multifunction Solid State DIN Mount Time Delay Relay

- Available as SPDT or DPDT
- 15 time setting ranges
- .05s - 100hr programmable timing range
- Universal 24-240 VAC/VDC or fixed input types.
- 3A switching current rating
- Fits 35mm DIN track
- Single function, Delay-On available



Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Contact Data @ 25°C

Arrangements: 1 Form C (SPDT).
2 Form C (DPDT)

Material: Silver tin oxide.

Rating: 3A @ 250VAC.

Switching Frequency: 2,500 ops./hour.

Electrical Life: 200,000 operations min. at rated load.

Mechanical Life: 30 x 10⁶ operations.

Input Data @ 25°C

Voltage: Universal Input Type: 24 - 240V, 50/60 Hz. AC or DC.

Fixed Input Type: 24, 100-127, 200-240AC; 24VDC.

Operating Range: AC: 85 to 110%.

DC: 80 to 125%.

Power Requirement:

Universal Input Type: AC: 6VA.

DC: 2W.

Environmental Data

Temperature Range: Storage: -40°C to +80°C.

Operating: -25°C to +60°C.

Protection Category: IP 20 according to EN 60529.

Mechanical Data

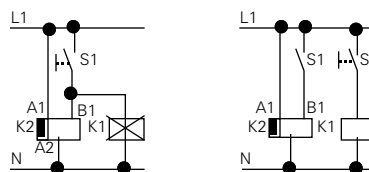
Termination: Screw terminal.

Enclosure: Plastic DIN case.

Mounting: 35mm DIN track.

Weight: (3RP1505) 5.29 oz. (150g) approximately.

(3RP1525) 3.88 oz. (110g) approximately.

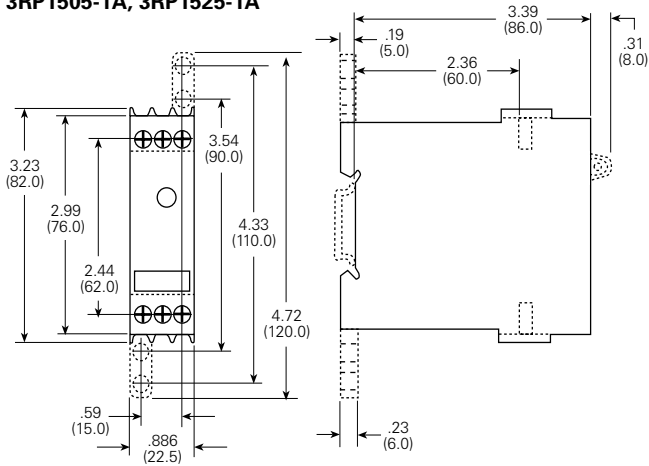


Ordering Information – Authorized distributors are more likely to stock boldface items listed below.

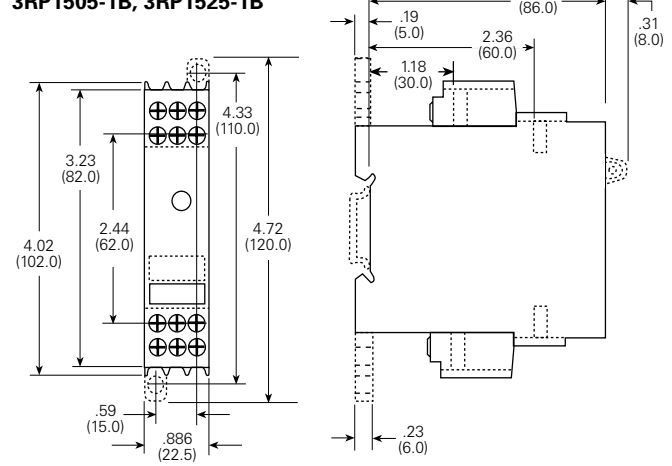
| Input Voltage | | Input Type | Contact Arrang. | Wiring Diagram | Functions | Part Number |
|------------------------------|-------------|------------|-----------------|----------------|-----------|-----------------------|
| DC | AC | | | | | |
| 3RP1505 Multifunction | | | | | | |
| 24 | 24, 100-127 | Fixed | SPDT | 1 to 8 | 1 to 8 | 3RP15 05-1AQ30 |
| 24 | 24, 200-240 | Fixed | SPDT | 1 to 8 | 1 to 8 | 3RP15 05-1AP30 |
| 24 | 100-127 | Fixed | DPDT | 9 to 24 | 9 to 24 | 3RP15 05-1BQ30 |
| 24-240 | 24-240 | Universal | DPDT | 9 to 24 | 9 to 24 | 3RP15 05-1BW30 |
| 3RP1525 Delay On | | | | | | |
| 24 | 24, 100-127 | Fixed | SPDT | 1 | 1 | 3RP15 25-1AQ30 |
| 24 | 24, 200-240 | Fixed | SPDT | 1 | 1 | 3RP15 25-1AP30 |
| 24 | 24, 100-127 | Fixed | DPDT | 9 | 9 | 3RP15 25-1BQ30 |
| 24 | 24, 200-240 | Fixed | DPDT | 9 | 9 | 3RP15 25-1BP30 |

Outline Dimensions

3RP1505-1A, 3RP1525-1A



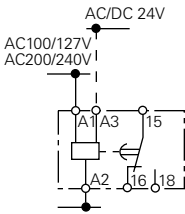
3RP1505-1B, 3RP1525-1B



Wiring Diagram

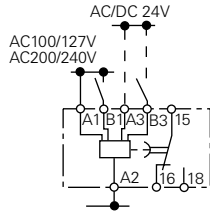
1. On-Delay

**3RP1505-1A
3RP1525-1A**



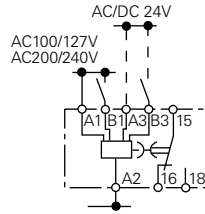
2. Off-Delay

**With Auxiliary Voltage
3RP1505-1A**



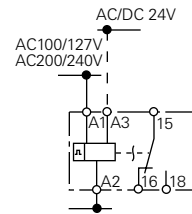
3. On and Off Delay

**With Auxiliary Voltage
3RP1505-1A**



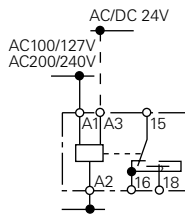
4. Flashing

3RP1505-1A



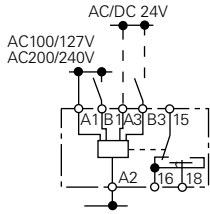
5. Making-Pulse Contact

**3RP1505-1A
3RP1525-1A**



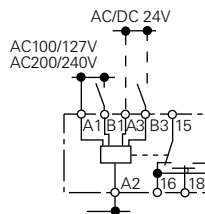
6. Breaking-Pulse Contact

**With Auxiliary Voltage
3RP1505-1A**



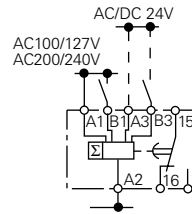
7. Pulse Forming

**With Auxiliary Voltage
3RP1505-1A**



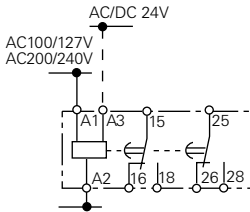
8. Additive On-Delay With Auxiliary Voltage and Instantaneous Contact

3RP1505-1A



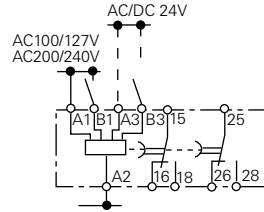
9. On-Delay

**3RP1505-1B
3RP1525-1B**



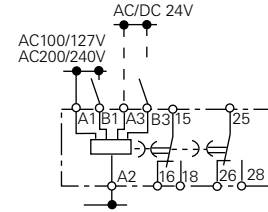
10. Off-Delay

**With Auxiliary Voltage
3RP1505-1B**



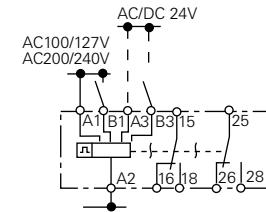
11. On-and Off-Delay

**With Auxiliary Voltage
3RP1505-1B**



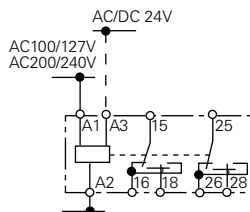
12. Flashing

3RP1505-1B



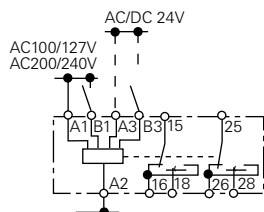
13. Making-Pulse Contact

3RP1505-1B



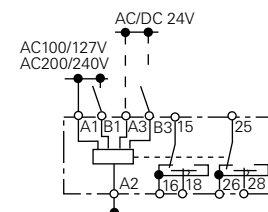
14. Breaking-Pulse Contact

**With Auxiliary Voltage
3RP1505-1B**



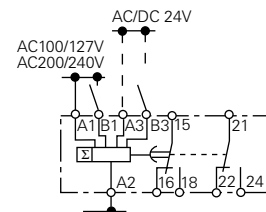
15. Pulse Forming

**With Auxiliary Voltage
3RP1505-1B**



16. Additive On-Delay With Auxiliary Voltage and Instantaneous Contact

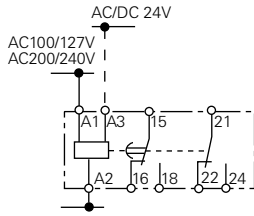
3RP1505-1B



Wiring Diagrams (continued)

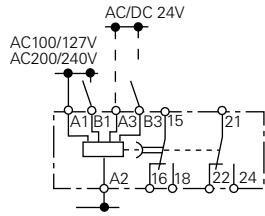
17. On-Delay and Instantaneous Contact

3RP1505-1B



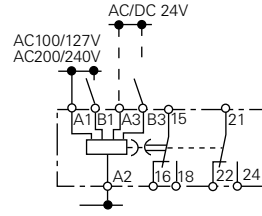
18. Off-Delay With Auxiliary Voltage and Instantaneous Contact

3RP1505-1B



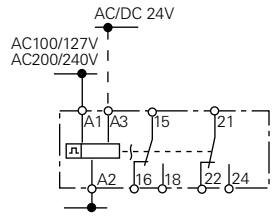
19. On and Off Delay With Auxiliary Voltage and Instantaneous Contact

3RP1505-1B



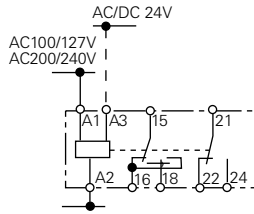
20. Flashing and Instantaneous Contact

3RP1505-1B



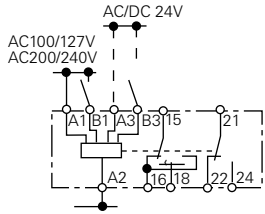
21. Making-Pulse Contact and Instantaneous Contact

3RP1505-1B



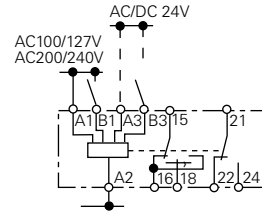
22. Breaking-Pulse Contact With Auxiliary Voltage and Instantaneous Contact

3RP1505-1B



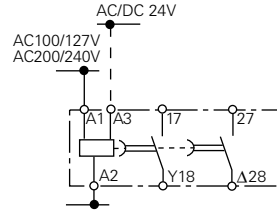
23. Pulse Forming With Auxiliary Voltage and Instantaneous Contact

3RP1505-1B



24. Star-Delta Function

3RP1505-1B

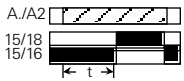


Timing Function Descriptions and Settings

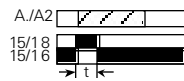
3RP1505-1A

3RP1505-1B

1. On Delay



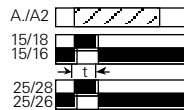
5. Impulse On



9. On Delay



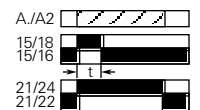
13. Impulse On



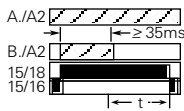
17. On Delay



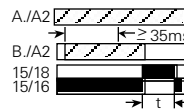
21. Impulse On



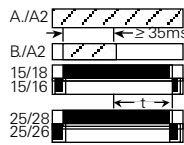
2. Off Delay



6. Impulse Off



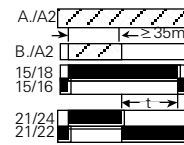
9. On Delay



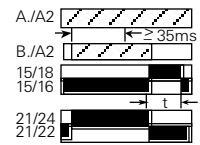
13. Impulse On



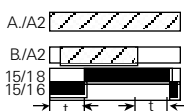
17. On Delay



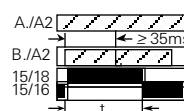
21. Impulse On



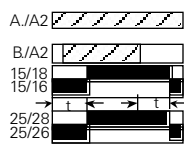
3. On/Off Delay



7. Pulse Shaping



9. On Delay



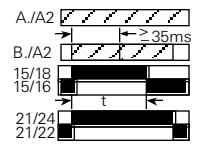
13. Impulse On



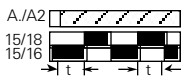
17. On Delay



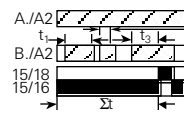
21. Impulse On



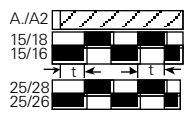
4. Flasher



8. Cumulative On Delay



9. On Delay



13. Impulse On



17. On Delay



21. Impulse On

