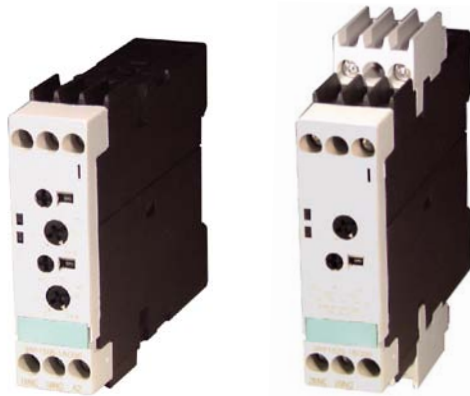


THIS DATA IS FOR REFERENCE PURPOSES ONLY
This Product's status is: OBSOLETE.
Tyco Electronics no longer offers the 3RP1 series.



Standards and Specifications

- IEC 721-3-3 "Ambient conditions"
- IEC 61812-1/DIN VDE 0435 Part 221 "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.

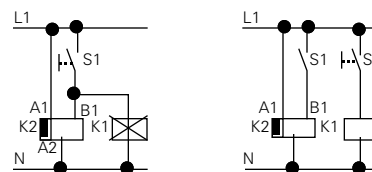
Mechanical Data

Termination: Screw terminal.

Enclosure: Plastic DIN case.

Mounting: 35mm DIN track.

Weight: (3RP1505) 5.29 oz. (150g) approximately.
(3RP1525) 3.88 oz. (110g) approximately.

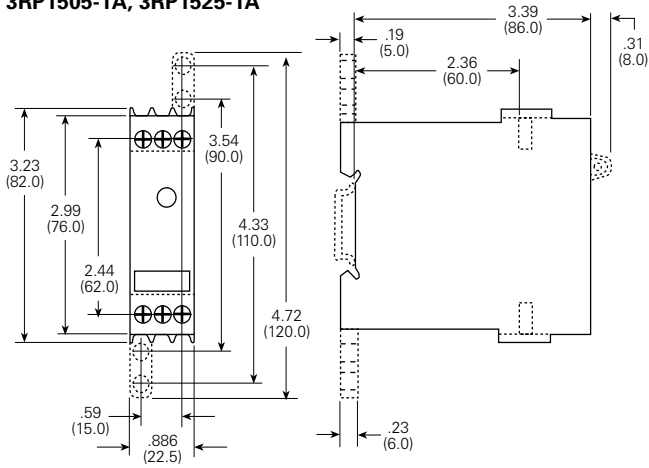


Ordering Information – Authorized distributors are more likely to stock boldface items listed below.

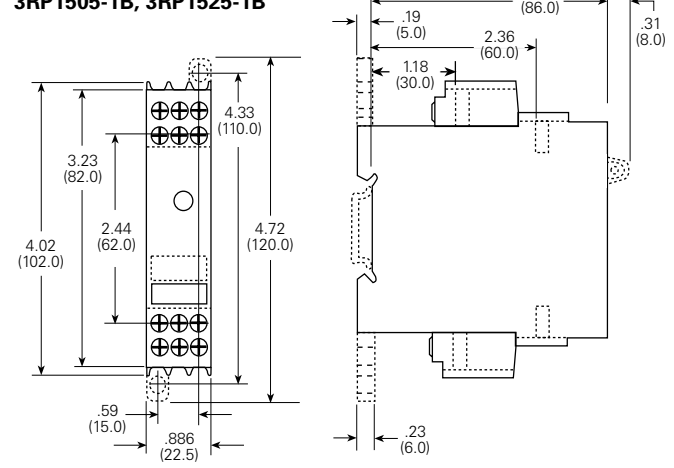
Input Voltage		Input Type	Contact Arrang.	Wiring Diagram	Functions	Part Number
DC	AC					
3RP1505 Multifunction						
24	24, 100-127	Fixed	SPDT	1 to 8	1 to 8	3RP15 05-1AQ30
24	24, 200-240	Fixed	SPDT	1 to 8	1 to 8	3RP15 05-1AP30
24	24, 100-127	Fixed	DPDT	9 to 24	9 to 24	3RP15 05-1BQ30
24-240	24-240	Universal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



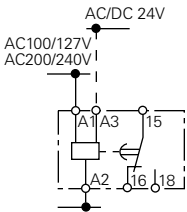
3RP1505-1B, 3RP1525-1B



Wiring Diagram

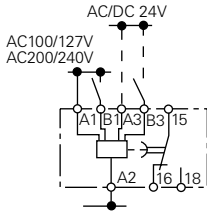
1. On-Delay

3RP1505-1A 3RP1525-1A



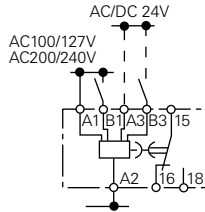
2. Off-Delay

With Auxiliary Voltage 3RP1505-1A



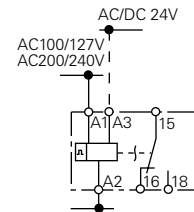
3. On and Off Delay

With Auxiliary Voltage 3RP1505-1A



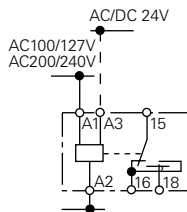
4. Flashing

3RP1505-1A



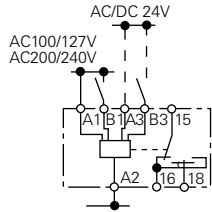
5. Making-Pulse Contact

3RP1505-1A 3RP1525-1A



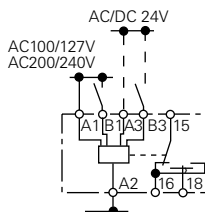
6. Breaking-Pulse Contact

With Auxiliary Voltage 3RP1505-1A



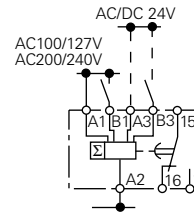
7. Pulse Forming

With Auxiliary Voltage 3RP1505-1A



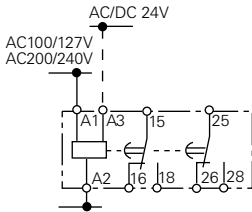
8. Additive On-Delay With Auxiliary Voltage and Instantaneous Contact

3RP1505-1A



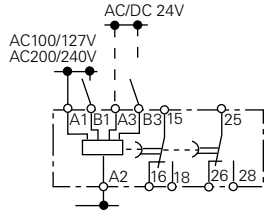
9. On-Delay

3RP1505-1B 3RP1525-1B



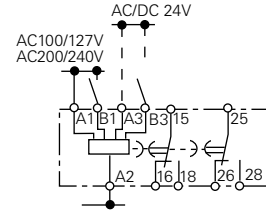
10. Off-Delay

With Auxiliary Voltage 3RP1505-1B



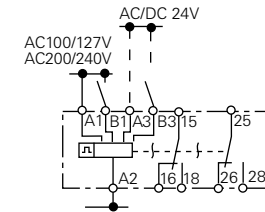
11. On-and Off-Delay

With Auxiliary Voltage 3RP1505-1B



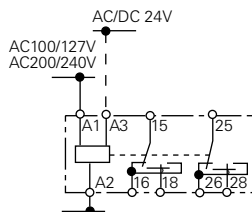
12. Flashing

3RP1505-1B



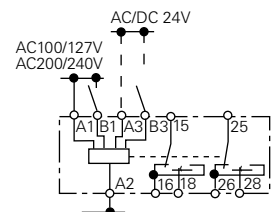
13. Making-Pulse Contact

3RP1505-1B



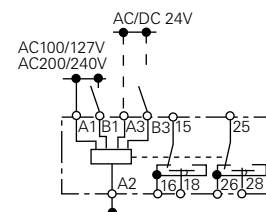
14. Breaking-Pulse Contact

With Auxiliary Voltage 3RP1505-1B



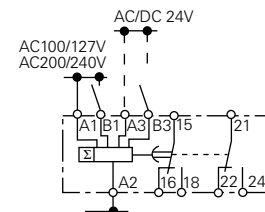
15. Pulse Forming

With Auxiliary Voltage 3RP1505-1B



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

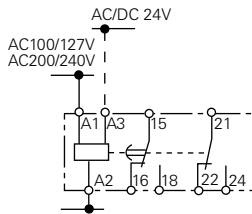
3RP1505-1B



Wiring Diagrams (continued)

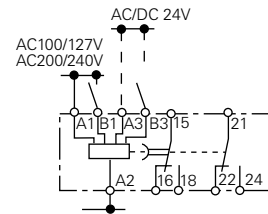
**17. On-Delay and
Instantaneous Contact**

3RP1505-1B



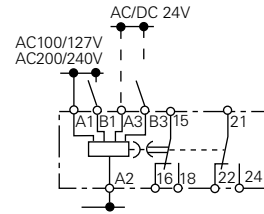
**18. Off-Delay
With Auxiliary Voltage and
Instantaneous Contact**

3RP1505-1B



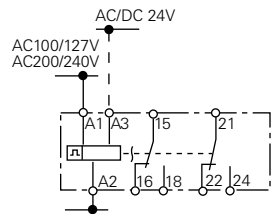
**19. On and Off Delay
With Auxiliary Voltage and
Instantaneous Contact**

3RP1505-1B



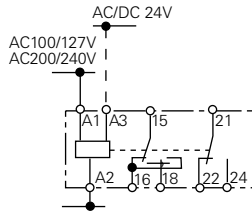
**20. Flashing and
Instantaneous Contact**

3RP1505-1B



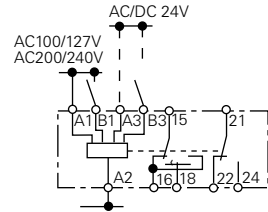
**21. Making-Pulse Contact and
Instantaneous Contact**

3RP1505-1B



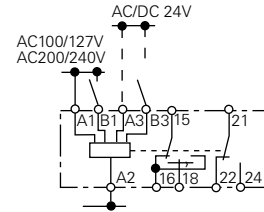
**22. Breaking-Pulse Contact
With Auxiliary Voltage and
Instantaneous Contact**

3RP1505-1B



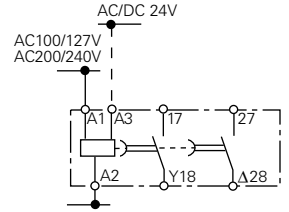
**23. Pulse Forming With
Auxiliary Voltage and
Instantaneous Contact**

3RP1505-1B



24. Star-Delta Function

3RP1505-1B

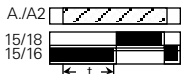


Timing Function Descriptions and Settings

3RP1505-1A

3RP1505-1B

1. On Delay



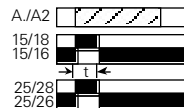
5. Impulse On



9. On Delay



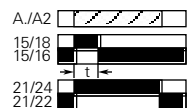
13. Impulse On



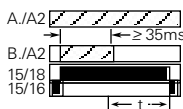
17. On Delay



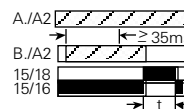
21. Impulse On



2. Off Delay



6. Impulse Off



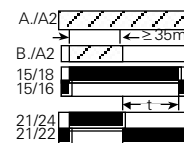
10. On Delay



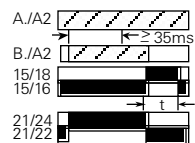
14. Impulse On



18. On Delay



22. Impulse On



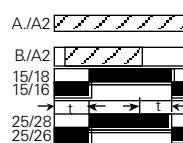
3. On/Off Delay



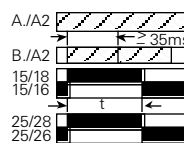
7. Pulse Shaping



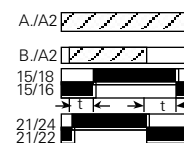
11. On Delay



15. Impulse On



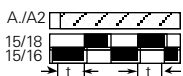
19. On Delay



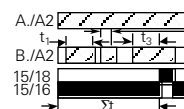
23. Impulse On



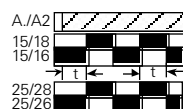
4. Flasher



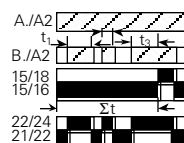
8. Cumulative On Delay



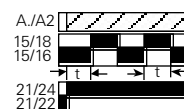
12. On Delay



16. Impulse On



20. On Delay



24. Impulse On

