

## Features

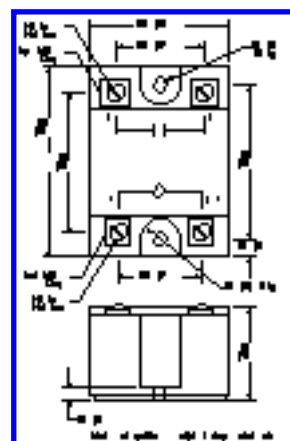
- AC and DC Models
- Back-to-Back Dual SCRs (Non-Suffix)
- Internal Snubbers on AC Models
- TRIAC Version (T-Suffix)
- Random Switching (R-Suffix)
- MOSFET DC Version (M-Suffix)

# RS3 Series



## Panel Mount, Heavy Duty, Solid State AC & DC Power Relays, 10 Amp to 75 Amp

### Dimensional Drawing D31



### INPUT PARAMETERS

| NTE Type No. | Control Signal Range | Must Operate Voltage | Must Release Voltage | Input Current |
|--------------|----------------------|----------------------|----------------------|---------------|
| RS3-1D10-51  | 3-32VDC              | 3VDC                 | 1VDC Min             | 22mA Max      |
| RS3-1D10-51R | 3-32VDC              | 3VDC                 | 1VDC Min             | -             |
| RS3-1A10-52  | 90-280VAC            | 80VAC                | 20VAC Min            | -             |
| RS3-1A25-42  | 90-280VAC            | 90VAC                | 10VAC Min            | 2mA Max       |
| RS3-1D25-24T | 3-32VDC              | 3VDC                 | 1VDC                 | 4mA Max       |
| RS3-1A40-22  | 90-280VAC            | 90VAC                | 10VAC Min            | 2mA Max       |
| RS3-1D40-41  | 3-32VDC              | 3VDC                 | 1VDC Min             | 4mA Max       |
| RS3-1D40-21  | 3-32VDC              | -                    | -                    | 34mA Max      |
| RS3-1D40-21R | 3-32VDC              | -                    | -                    | 34mA Max      |
| RS3-1A75-22  | 90-280VAC            | 90VAC                | 10VAC Min            | 2mA Max       |
| RS3-1D75-21  | 3-32VDC              | -                    | -                    | 34mA Max      |
| RS3-1D75-41  | 3-32VDC              | -                    | -                    | 4mA Max       |
| RS3-1D12-41M | 3.5-32VDC            | 3.5VDC               | 1VDC Min             | 1.6mA Max     |
| RS3-1D40-41M | 3.5-32VDC            | 3.5VDC               | 1VDC Min             | 1.6mA Max     |

### OUTPUT PARAMETERS

| NTE Type No. | Line Voltage Range | Max On-State Current | Max 1-Cycle Surge | On-State Voltage Drop |
|--------------|--------------------|----------------------|-------------------|-----------------------|
| RS3-1D10-51  | 24-330VAC          | 10A                  | 40A               | 1.5V                  |
| RS3-1D10-51R | 24-240VAC          | 10A                  | 40A               | 1.5V                  |
| RS3-1A10-52  | 24-330VAC          | 10A                  | 40A               | 1.5V                  |
| RS3-1A25-42  | 48-280VAC          | 25A                  | 245               | 1.6V                  |
| RS3-1D25-24T | 48-280VAC          | 25A                  | 215               | 1.6V                  |
| RS3-1A40-22  | 48-280VAC          | 40A                  | 245               | 1.6V                  |
| RS3-1D40-41  | 80-530VAC          | 40A                  | 600               | 1.6V                  |
| RS3-1D40-21  | 24-280VAC          | 45A                  | 450               | 1.6V                  |
| RS3-1D40-21R | 24-280VAC          | 45A                  | 450               | 1.6V                  |
| RS3-1A75-22  | 48-280VAC          | 75A                  | 950               | 1.6V                  |
| RS3-1D75-21  | 24-280VAC          | 75A                  | 700               | 1.6V                  |
| RS3-1D75-41  | 36-530VAC          | 75A                  | 700               | 1.6V                  |
| RS3-1D12-41M | 0-100VDC           | 12A                  | 28                | 1.6V                  |
| RS3-1D40-41M | 0-100VDC           | 40A                  | 106               | 2.1V                  |

## Electrical Specifications

### Environmental Characteristics

Operating: -40°C to +80°C

**Note 1.** Can be used with NTE441A Heat Sink.



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