## CR324X Solid State Overload Relays

For Panel Mounting
3-Pole, 600 VAC

Technical Features
-2:1 Adjustable full load amps with tactile feedback dial
-Selectable 10/20/30 protection class
-Ambient insensitive within the stated operating temperature range of $-20^{\circ}$ to $+70^{\circ} \mathrm{C}$
-Built-in thermal memory to prevent hot motor restarts
-Protection against complete phase current loss
-Manual reset (standard) and remote reset (optional) 24 VDC or 120 VAC
-Accuracy: $\pm 2 \%$
-Repeatability: $\pm 2 \%$
-Self-powered @ $50 \%$ of minimum current range
-Size: 1-6 (0.40A-540A, $600 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$ )
-Unbalance trip signal for PLC operation
-Manual trip
-Visual trip indication
-Standard isolated 1 NO and 1 NC aux. contact (A600, Q600)
-Built-in line/load straps
-Fits with existing 300-Line Starters
-Power factor correction terminals (sizes 1-4)
-DIN rail mountable sizes $1 \& 2$

## Solid State Overload Relays for Panel Mounting (CR324X) -

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CR324X Overload Relay (Panel-Mount)

## Product Number Selection Instructions

1. Replace * in product number with appropriate digit from Full Load Current Selection Table below.

Solid State Overload Relays

| NEMA Size | Continuous Ampere Rating | Mounting Position | Product Number | List Price GO-10GS |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 27 | Panel Mount | CR324CX*P | \$162.00 |
| 2 | 45 | Panel Mount | CR324DX*P | \$177.00 |
| 3,4 | 90,135 | Panel Mount | CR324FX*P | \$255.00 |
| 1 | 27 | for MRO \& Replacement | CR324CX*S | \$150.00 |
| 2 | 45 | for MRO \& Replacement | CR324DX*S | \$165.00 |
| 3,4 | 90,135 | for MRO \& Replacement | CR324FX*S ${ }^{1,2}$ | \$255.00 |
| 5 | 270 | for MRO \& Replacement | CR324GX*S ${ }^{3}$ | \$162.00 |
| 6 | 540 | for MRO \& Replacement | CR324HX*K ${ }^{4}$ | \$750.00 |
| 6 | 540 | for MRO \& Replacement | CR324HX*S ${ }^{5}$ | \$162.00 |

1If Product No. digit "K" is selected from Full Load Current Selection Table, deduct $\$ 55.00$ from list price.
2Reset on CR324FX*S overloads is approximately 1" longer than on equivalent bimetal overloads. For GE 300-Line enclosures, perform the actions noted below:

| Enclosure Reset Extension Type | Adjustment Required |
| :---: | :---: |
| Threaded Rod (standard) | Cut threaded shaft $1^{\prime \prime}$ and adjust for $1 / 8^{\prime \prime}$ gap. |
| "U" Style, 2 1/8" long | Replace extension with product number 55-512811G005. |
| "U" Style, $11 / 2$ " long | Replace extension with product number 55-512811G002. |
| ${ }^{3} \mathrm{CR} 324 \mathrm{GX*}$ S may be used as replacement for bimetal overload on size 5 starters. Use existing CTs. |  |
| ${ }^{4} \mathrm{CR} 324 \mathrm{HX}$ *K kit must be used as solid-state replacement for bimetal overloads on size 6, since CT ratio changes, CTs included. |  |
| ${ }^{5} \mathrm{CR} 324 \mathrm{HX}$ * may be used as | Use existing CTs. |

Solid State Overload Relay Options

|  |  |  |  |
| :--- | :---: | :---: | :---: |
| Item | NEMA Size | Voltage | Product Number |
| Remote Reset | $1-6$ | 120 VAC | CR324XRRMO2 |
| Panel Mount Adapter | 1 | $\mathrm{~N} / \mathrm{A}$ | CR324CXPMA |
|  | 2 | $\mathrm{~N} / \mathrm{A}$ | CR324DXPMA |

## Full Load Current Selection Table

For continuous rated motors, with a service factor of 1.15 to 1.25 , select the heater with maximum motor Amperes equal to or immediately greater than the motor full-load current (provides a maximum of 125 percent protection). For continuous rated motors with no service factor, multiply the full-load current of the motor by 0.90 and use this value to select the heater.

| Overload Range for Solid State Starters | $\begin{aligned} & \text { NEMA } \\ & \text { Size } \end{aligned}$ | Fuse Max. | Breaker Max. | Insert Digit in Product Number |
| :---: | :---: | :---: | :---: | :---: |
| 0.4-0.85 | 00-1 | 3 | 15 | C |
| 0.8-1.7 | 00-1 | 6 | 15 | D |
| 1.6-3.4 | 00-1 | 12 | 15 | E |
| 3.2-6.8 | 00-1 | 25 | 25 | F |
| 6.5-13.5 | 00-1 | 50 | 50 | G |
| 13-27 | 00-1 | 100 | 100 | H |
| 6.5-13.5 | 2 | 50 | 50 | G |
| 13-27 | 2 | 100 | 100 | H |
| 25-50 | 2 | 200 | 200 | J |
| 17-35 | $3 \& 4$ | 125 | 125 | K |
| 35-70 | $3 \& 4$ | 250 | 250 | L |
| 65-135 | $3 \& 4$ | 500 | 400 | M |
| 35-70 | 5 |  |  | N |
| 65-135 | 5 | 500 | 400 | P |
| 130-270 | 5 | 600 | 800 | Q |
| 130-270 | 6 | 1200 | 800 | S |
| 260-540 | 6 | 1200 | 800 | T |


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