

## S86R/S87R series

Low Cost
20 Amp
Industrial Relays
吹 File E22575
(18) File LR15734

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users 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.

Coil Data

| Nominal Coil Voltage | $\begin{gathered} \hline \text { Coil Resistance (Ohms) } \\ \text { AC, } \pm 15 \% \\ \text { DC, } \pm 10 \% \end{gathered}$ |  | Nominal Coil Current (mA) @ $25^{\circ}{ }^{\circ}$ * |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { S86R \& } \\ & \text { S87R (AC) } \end{aligned}$ | All Models |  | All Models |  |
| $\begin{array}{r} 12 \mathrm{VAC} \\ 24 \mathrm{VAC} \\ \text { 120VAC } \\ 240 \mathrm{VAC} \end{array}$ | $\begin{array}{r} 8.0 \\ 32 \\ 800 \\ 3,200 \end{array}$ |  | $\begin{gathered} 330 \\ 165 \\ 33.0 \\ 16.5 \end{gathered}$ |  |
| S87R (DC) | Single Pole Models | Double Pole Models | Single Pole Models | Double Pole Models |
| 6VDC 12VDC 24VDC 36VDC 48VDC 72VDC 125VDC | 12.5 50 200 450 800 1,800 5,425 | $\begin{array}{r} \hline 8 \\ 32 \\ 128 \\ 288 \\ 512 \\ 1,150 \\ 3,470 \end{array}$ | $\begin{array}{r} 480 \\ 240 \\ 120 \\ 80 \\ 60 \\ 40 \\ 23 \\ \hline \end{array}$ | $\begin{array}{r} 750 \\ 375 \\ 188 \\ 125 \\ 94 \\ 63 \\ 36 \end{array}$ |

*Increase AC current values by $25 \%$ for mounting style 2 with single switch.

## Operate Data

Must Operate Voltage:
DC Coils: $75 \%$ of nominal voltage @ $+25^{\circ} \mathrm{C}$.
AC Coils: $85 \%$ of nominal voltage @ $+25^{\circ} \mathrm{C}$.
Operating Position: Relay is designed for operation with plunger either vertical or horizontal; however, the relay is not designed for operation in an upside-down position.

## Coil Data @ $\mathbf{2 5}^{\circ} \mathrm{C}$

## Nominal Power:

S86R: 4.0VA for AC models
S87R: 2.9 Watts for single pole DC models. 4.5 Watts for double pole DC models. 4.0VA for AC models.

Insulation: Class $\mathrm{B}\left(130^{\circ} \mathrm{C}\right)$.

## Environmental Data

Temperature Range: $-10^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$.


| Our authorized distributors are more likely to maintain the following items in stock for immediate delivery |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| S86R5A1B1D1-120 | S86R11D1B1D1-12 | S87R5A2B1D1-240 | S87R11A2B1D1-24 | S87R11A2B1D1240 |
| S86R11A1B1D1120 | S87R5A2B1D1-120 | S87R5D2B1D1-24 | S87R11A2B1D1120 | S87R11D2B1D1-110 |

Outline Dimensions

S86R (2 pole shown) Style 1


S87R (2 pole shown) Style 2


## Switch Terminal Configuration

Style 1


