## SDT series

## 10 Amp Miniature Power PC Board Rela

Appliances, HVAC, CTV, Monitor Display
品 UL File No. E82292
(818) CSA File No. LR48471
(S) SEM KO File No. 9308008
$\triangle$ TUV File No. R9551731
$\stackrel{+}{( })$ SEV File No. 97550375

Users should thoroughly review the technical data before selecting a product part
number. 1 ti
recommended


Coil Data @ $20^{\circ} \mathrm{C}$

| SDT |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Rated Coil Voltage (VDC) , | $\begin{aligned} & \text { Nominal } \\ & \text { Current } \\ & (\mathrm{mA}) \end{aligned}$ | $\begin{gathered} \text { Coil } \\ \text { Resistance } \\ \text { (ohms) } \pm 10 \% \end{gathered}$ | Must Operate Voltage (VDC) | Must Release Voltage (VDC) |
| 5 | 106.4 | 47 | 3.75 | 0.50 |
| 6 | 88.0 58.0 | -158 | 4.50 6.75 | 0.60 0.90 0 |
| 12 | 44.4 | 270 | ${ }_{9.00}$ | ${ }^{1.20}$ |
| 24 | 21.8 | 1,100 | 18.00 | 2.40 |
| 48 | 10.9 | 4,400 | 36.00 | 4.80 |

Operate Data
Must Operate Voltage: $75 \%$ of nominal voltage or less.
Must Release Voltage: $10 \%$ of nominal voltage or more. Operate Time: 15 ms max.
Contact Ratings
Ratings: 5 STungsten @ 120VAC (TV-5) 25,000ops
10 A @ 120 VAC resistive,
3 AA @ 250 VAC inductive ( (cos $8=0.4$ ),
3 A @30VDC inductive (LR $=7 \mathrm{msec})$.
Max. Switched Voltage: AC: 250 V .
Max. Switched Current: 10 A A
Max. Switched Power: $2,500 \mathrm{VA}, 300 \mathrm{w}$.
nitial Dielectric Strength
Between Open Contatas: $900 \mathrm{VAC} 50 / 60 \mathrm{~Hz}$ (1 minute).
Between Coil and Contacts: $4,000 \mathrm{VACC} 50 / 60 \mathrm{~Hz}$ (1 minute).


## nitial Insulation Resistance

etween Mutually Insulated Elements: 1,000M ohms min. @500VDCM.

## Coil Data

Voltage: 5 to 48 VDCD .
Nominal Power. 540 mW
Coii Temperature Rise: 40
coil Temperature Rise: $40^{\circ} \mathrm{C}$ max, at rated coil voltage.
Max. Coii Power: $130 \%$ of nominal.
Max. Coil Power: $130 \%$ or
Duty Cycle: Continuous.
Termination: Printed circuit teminals.
Termination: Printed circuit temminals.
Enclosure (94V-0 Flammability Ratings):
SDTT-SS: Vented Filuitty Ratingst: plastic cover
SDT-SH: Sealed plastic case SDT-SH: Sealed plastic case
Weight: 0.39 oz (119) approximately.
2. Enclosure:

SS = Vented (Flux-tight) $*$ plastic cover
$\mathrm{SH}=$ Seeded. plastic .
3. Termination:
4. Coil Voltage:

5. Coil Input:
$D=$ Standard
6. Contact Arrangement:
$\mathrm{M}=1$ Form A, SPST-N
7.
7. Suffix:
, $000=$ Standard model

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.
None at present.

## Outline Dimensions



## Wiring Diagram (Bottom View)


$\overline{\text { PC Board Layout (Bottom View) }}$


Reference Data




Coil Power (W)
Contact Current (A)
Note: This datai is based on the maxa. alowable
temperature tor Etpee isulation coi (115"C).
reference purposes only.

Specifictions and avilability
subiect to change.

m Arrow.com.
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SDT-R series
10 Amp Miniature
Power PC Board Relay
Appliances, HVAC, CTV, Monitor Display.
9 UL File No. E58304
(11 CSA File No. LR48471
(S) SEMKO FileNo. 9722134,9803052
$\triangle$ TUV File No. R9750487



Coil Data @ $20^{\circ} \mathrm{C}$

| SDT-LMR (250mW) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Rated Coil Voltage (VDC) | $\begin{gathered} \text { Nominal } \\ \text { Current } \\ (\mathrm{mA}) \end{gathered}$ | $\begin{gathered} \text { Coil } \\ \text { Resistance } \\ \text { (ohms) } \pm 10 \% \end{gathered}$ | Must Operate Voltage (VDC) | Must Release Voltage (VDC) |
| 5 |  | 100 | 3.75 | 0.50 |
| ${ }_{9}^{6}$ | ${ }_{217}^{47.7}$ | 325 | 4.50 6.75 | 0.60 0.90 |
| 12 | 20.7 | 580 | ${ }_{9} .00$ | ${ }^{1.20}$ |
| 24 | 10.5 | 2,300 | 18.00 | 2.40 |
| SDT-DMR ( 400 mW ) |  |  |  |  |
| $\begin{gathered} \text { Rated Coil } \\ \text { Voltage } \\ \text { (VDC) } \end{gathered}$ | $\begin{aligned} & \text { Nominial } \\ & \text { Current } \\ & (\mathrm{mA}) \end{aligned}$ | $\begin{gathered} \text { Coil } \\ \text { Resistance } \\ \text { (ohms) } \pm \mathbf{1 0 \%} \end{gathered}$ | $\begin{aligned} & \text { Must Operate } \\ & \text { Voltage } \\ & \text { (VDC) } \end{aligned}$ | Must Release <br> Voltage <br> (VDC) |
| 5 | 106.4 | 47 | 3.75 | 0.50 |
| ${ }_{9}$ | 88.0 58.0 | 158 | 4.50 6.75 | 0.60 0.90 |
| 12 | 44.4 | 270 | ${ }_{9.00}$ | 1.20 |
| 24 | 21.8 | 1,100 | 18.00 | 2.40 |
| 48 | 10.9 | 4.400 | 36.00 | 4.80 |

Operate Data
Must Operate Voltage: $75 \%$ of nominal voltage or less.
Must Release Voltage: $10 \%$ of nominal voltage or more. Operate Time 15 ms max.
Release Time: 5 ms max.

Environmental Data
Temperature Range:
Operating: $30^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
 Shock, Mechanical: $1,000 \mathrm{~m} / \mathrm{s}^{2}(100 \mathrm{~Hz}$ (10), approximately).


Mechanical Data
Termination: Printed circuit teminals.
Enclosure $94 V V-0$ Flammability
Ratings):
SDT-S: Snap-on dust cover (Flux-tight).
Weight: 0.38 oz ( (11g) approximately.
Ordering Information

1. Basic Series:
SDT $=$ Miniature Power PC board relay
2. Enclosure: $\begin{gathered}\text { S Snap-on (Flux-tight)* cover. }\end{gathered}$
3. Termination:
$1=1$ pole
$\begin{array}{lll}\text { 4. Coilvoltage: } & 09=9 \mathrm{VDC} & 24=24 \mathrm{VDC} \\ 05=5 \mathrm{VCDC} \\ 06=6 \mathrm{VDC} & 12=12 \mathrm{VDC} & 48=48 \mathrm{VDC}\end{array}$
4. Coil Input: $L=$ Sensitive ( 250 mW ) $\quad D=$ Standard ( 540 mW )
5. Contact Arrangement:
6. Construction:
$R=$ New Construction

other Suffix $=$ Custom model
*Not suitable for immerion cleaning processes.
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.
None at present.
Outline Dimensions
Wiring Diagram (Bottom View)


## $\overline{\text { PC Board Layout (Bottom View) }}$



## Reference Data



Operate Time


Life Expectancy


Note: This datata is based on the maxa allowable
tempenturue or $E$ Etpe insulation coil (115c).
Dimenion are shown for
referenere purosese only.

## 

Specifications and availability
swbiect to change.
from Arrow.com:

