## —TRAKOOR DSC15 series LVDC Contactor 150A / 60VDC / 120VDC



- Rated load: 150 A at 60 VDC
- 120VDC with magnet arc blow-out option
- Auxiliary contact option
- Bi-stable (Latching) option
- M8 Male power terminals

| Contacts |  |
| :---: | :---: |
| Contact arrangement | SPST-NO-DM |
| Contact material | AgCu Alloy |
| Max. switching voltage DC | $60 \mathrm{~V}, 120 \mathrm{~V}$ with magnet arc blow-out |
| Rated load (resistive, $\cos \varphi=1$ ) DC1 | 150A 60VDC |
| Working duty | Continuous |
| Terminal temperature rise above ambient | <70${ }^{\circ} \mathrm{C}$. IEC EN60947, GB14/14048.4 |
| Contact voltage drop max. | $\leq 80 \mathrm{mV}$ @ 100A |
| Auxiliary Contact (when fitted) Arrangement | SPST-NO (1 Form A) |
| Max. Current | 5A @ 24VDC / 2A @ 48VDC |
| Min. Current | 100mA @ 5V |

## Coil

| Nominal Voltage (see page 2) | DC |
| :--- | :--- |
| 12~120VDC (Tables 1\&2) |  |
| Rated power consumption | $10 \sim 20 \mathrm{~W}$ hold (non-Latch), 15~30W pulse (Latch) |
| Minimum pulse length (latch coil) | 500 ms |

## Insulation

| Insulation resistance | Initial | $100 \mathrm{M} \Omega($ Min. $) @ 500 \mathrm{VDC}$ |
| :--- | ---: | :--- |
| Dielectric strength | coil to contact | ${1000 \mathrm{~V}_{\mathrm{rms}}(50 / 60 \mathrm{~Hz}) /<1 \mathrm{~mA} / 1 \mathrm{~min} \text { (at sea level) }} \quad$ contact to contact |
|  | ${1000 \mathrm{~V}_{\mathrm{ms}}}(50 / 60 \mathrm{~Hz}, 1 \mathrm{~min},<1 \mathrm{~mA}$ leakage) |  |

## General Data

| Operate / bounce time at $20^{\circ} \mathrm{C}$ | max. | $30 \mathrm{~ms} / 3 \mathrm{~ms}$ |
| :--- | ---: | :--- |
| Release time | max. | 30 ms |
| Electrical life | at rated load | 20,000 ops |
| Mechanical life | no load | 100,000 ops |

## Environmental

| Ambient temperature | operating | $-25^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$ (Latching), $+85^{\circ} \mathrm{C}$ (non-Latching) |
| :--- | ---: | :--- |
| Shock resistance |  | 20 g peak, $11 \mathrm{~ms} 1 / 2$ sine |
| Vibration resistance |  | 3 g sine peak (1-50Hz 0.5 mm amplitude) |
| Relative humidity | RH | $20 \% \sim 90 \%$ |
| Dimensions | $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ | $50 \times 39 \times 96 \mathrm{~mm}$ (approx.) |
| Weight | approx. | 380 g (varies according to options and coils) |

## UK C G $=\mathrm{M}^{\circ}$ RoHs CA (E c $\underset{\text { Esob553 }}{-1}$ us Compliant

## Ordering Code



DSC15M-4 0 2 1-2 $8-1024-S D W$

## DSC Series

15: Standard
15M: Magnet arc blow-out

Contact arrangement
4021: SPST-NO-DM

## Body style

28: Open frame, male stud terminals

## Accessory options

Blank: No options
C: Dust cover IP40
S: Auxiliary switch
D: Parallel back emf diode suppression (standard coils)
T: Parallel TVS back emf suppression diode (bi-stable coils)

Mounting \& terminations
Blank: No bracket
W: 'W' shaped mounting bracket
1L: One "L" shaped mounting bracket
2L: Two "L" shaped mounting brackets
2P: Two "P" shaped mounting brackets
(see Fig. 1 for bracket styles)

## CTRAKOOR <br> DSC15 series LVDC Contactor 150A / 60VDC / 120VDC

| Coil Data - Standard (monostable) coil |  |  |  |  |  | Table 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coil code | Nominal voltage $\mathrm{U}_{\mathrm{s}}$ (VDC) | Recommended coil operating range (V) | Must operate max. voltage (VDC) | Must release voltage min. (VDC) | Starting current <br> (A) | Coil power <br> (W) |
| 1012 | 12 | $0.85 \mathrm{U}_{\mathrm{s}} \sim 1.2 \mathrm{U}_{\mathrm{s}}$ | $\leq 8.4$ | $\geq 1.2$ | $\leq 1.00$ | 10 ~ 20W |
| 1024 | 24 |  | $\leq 16.8$ | $\geq 2.4$ | $\leq 0.60$ |  |
| 1030 | 30 |  | $\leq 21.0$ | $\geq 3.0$ | $\leq 0.60$ |  |
| 1036 | 36 |  | $\leq 25.2$ | $\geq 3.6$ | $\leq 0.50$ |  |
| 1048 | 48 |  | $\leq 33.6$ | $\geq 4.8$ | $\leq 0.30$ |  |
| 1060 | 60 |  | $\leq 42.0$ | $\geq 6.0$ | $\leq 0.25$ |  |
| 1072 | 72 |  | $\leq 50.4$ | $\geq 7.2$ | $\leq 0.20$ |  |
| 1080 | 80 |  | $\leq 56.0$ | $\geq 8.0$ | $\leq 0.15$ |  |
| 1096 | 96 |  | $\leq 67.2$ | $\geq 9.6$ | $\leq 0.15$ |  |
| 1120 | 120 |  | $\leq 84.0$ | $\geq 12.0$ | $\leq 0.15$ |  |

Coil Data - Single coil latch (bi-stable). Reverse polarity through coil to unlatch.
Table 2

| Coil code | Nominal voltage Us (VDC) | Recommended coil operating range (V) | Must operate max. voltage (VDC) | Must release voltage min. (VDC) | Starting current (A) | Coil power <br> (W) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SL12 | 12 | $0.85 \mathrm{U}_{\mathrm{s}} \sim 1.2 \mathrm{U}_{\mathrm{s}}$ | $\leq 9.6$ | $\leq 9.6$ | $\leq 2.00$ | Initial $15 \sim 35 W$ <br> Pulse length $0.5 \sim 1 \mathrm{sec}$. |
| SL24 | 24 |  | $\leq 19.2$ | $\leq 19.2$ | $\leq 1.00$ |  |
| SL30 | 30 |  | $\leq 24.0$ | $\leq 24.0$ | $\leq 0.75$ |  |
| SL36 | 36 |  | $\leq 28.8$ | $\leq 28.8$ | $\leq 0.70$ |  |
| SL48 | 48 |  | $\leq 38.4$ | $\leq 38.4$ | $\leq 0.50$ |  |
| SL60 | 60 |  | $\leq 48.0$ | $\leq 48.0$ | $\leq 0.40$ |  |
| SL72 | 72 |  | $\leq 57.6$ | $\leq 57.6$ | $\leq 0.40$ |  |
| SL80 | 80 |  | $\leq 64.0$ | $\leq 64.0$ | $\leq 0.35$ |  |
| SL96 | 96 |  | $\leq 76.8$ | $\leq 76.8$ | $\leq 0.30$ |  |
| SL120 | 120 |  | $\leq 96.0$ | $\leq 96.0$ | $\leq 0.25$ |  |

Other coils available upon special request. MOQ's will apply.


