

# Defender Family

*"The Defender is  
the best defense for  
your electrical system."*



The Defender DC Contactor is so tough it can handle environments with extreme temperatures, moisture and high vibration. It is designed to carry currents as low as 350 milliamps and as high as 200 amps. With coil Transient Volt Suppression (TVS), the Defender protects sensitive components in your system.



With built-in TVS and wide ranging current capability, it defends with durability, capability and tenacity – which makes it perfect for off-road and emergency equipment. From fire trucks to earthmovers, it will protect your electrical system with extreme toughness. Quite simply, the Defender is the best defense for your electrical system.

 **TROMBETTA • TYMPANIUM**

 **INDUSTRIAL  
DIESEL  
PRODUCTS INC.**  
worldwide procurement solutions

Engineering Excellence. Worldwide Competitiveness.

## Defender DC Contactor Specifications

|                                      |                                |
|--------------------------------------|--------------------------------|
| Coil Terminals                       | Deutsch-2Pin Connector DT06-25 |
| Contact Studs                        | 5/16-24 Studs                  |
| Mounting Bracket                     | Closed Holes Mounting Bracket  |
| O Ring material                      | O rings (7) – Buna N           |
| Standard Operating Temperature Range | -40° C to 85° C                |

### Coils

### Contact

| Model     | Max Sustained Duty Cycle <sup>1</sup> | Max On Time | Pull In Voltage <sup>2</sup> | Hold Voltage <sup>2</sup> | Coil Resist Ohms | Resistive Load Carry/Interrupt Capability (Amps) <sup>3</sup> | Inductive Load Carry/Interrupt Capability (Amps) <sup>3</sup> | Peak Inductive Inrush Capability (Amps) <sup>4</sup> | Electrical Cycle Life | Contact Material |
|-----------|---------------------------------------|-------------|------------------------------|---------------------------|------------------|---|---|--|-----------------------|------------------|
| 12V Cont. | 100%                                  | Cont.       | 6.5                          | 3.2                       | 13.3             | 200/200   | 100/100   | 400  | 20,000                | Silver           |
| 24V Cont. | 100%                                  | Cont.       | 12.9                         | 6.5                       | 49.7             | 200/200   | 100/100   | 400  | 20,000                | Silver           |

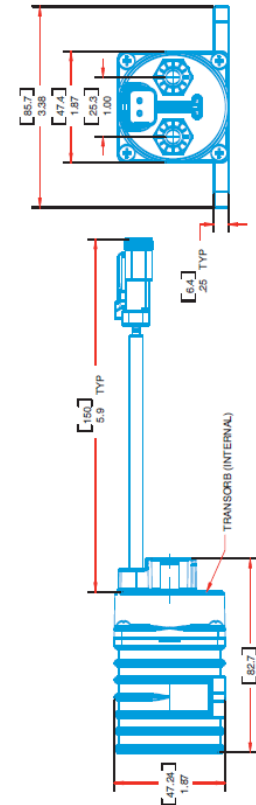
<sup>1</sup>Nominal coil voltage applied starting from 25° C DC Contactor temperature. Duty Cycle=On Time/(On Time + Off Time). <sup>2</sup>Volatges listed are minimum required at 25° C coil temperature. Minimum voltage requirements will increase with coil temperature. <sup>3</sup>Amps at Max Duty Cycle. <sup>4</sup>Risetime ≥ 3 milliseconds to 80% of peak inrush with linear decay to run (carry) current in ≤.1 seconds.

Enter Complete Part Number Below –

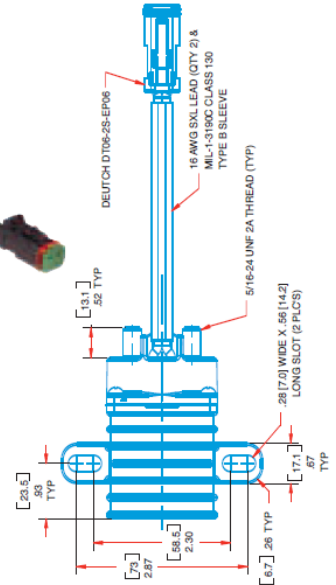
**Ordering Information** • Some configurations are not available. Contact your Trombetta sales rep before ordering.

| Family                              | Coil Connection Configuration       | High Current Stud                   | Coil Voltage               | Bracket Type  | Bracket Location                      | Duty Cycle                   | Contact Material                    | Sealing                             |
|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------|---|---------------------------------------|------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                          | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   | -                            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4- Defender                         | 0- Ungrounded Leads                 | 4- Standard Defender                | 12- 12 Volt<br>24- 24 Volt | 1- Investment Cast Housing, Intergal Bracket, 90° to Studs  | 1- Standard Location Fixed by Housing | 0- 100% Sustained Continuous | 3- Silver                           | 2- Sealed Design                    |

### TYPICAL DIMENSIONS



DIMENSIONS IN BRACKETS [ ] ARE MILLIMETERS



Note - 2 5/16-24 nuts are provided as standard