10747 SERIES
SOLID STATE RELAYS

FEATURES & BENEFITS:

- User adjustable trip curve
- No heatsink required at ambients <70°C
- Discrete trip status output
- Trip free reset
- No bias supply required
- No output offset
- Patented fail open technology
- Low voltage drop: efficiency > 99.6%
- Controlled transition time for low EMI
- Bus bar input connection and dual output pins

MAXIMUM RATINGS:

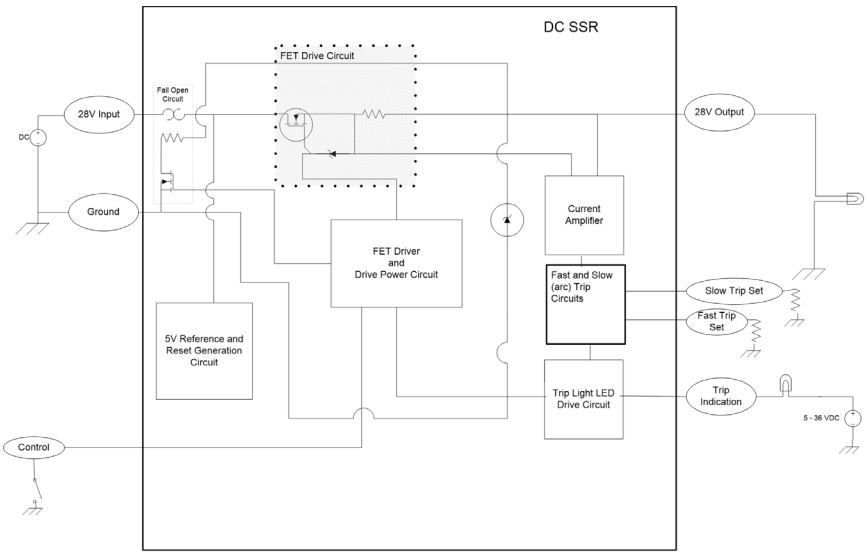
- Operating voltage range (28 in to ground): 18 - 32.2 VDC
- Surge voltage (28 in. to ground): 48V for 1 sec, 80V for 100mS
- Normal operating temperature range: -40° to 158°F (-40° to 70°C) ambient
- Storage temperature: -67° to 248°F (-55° to 120°C) ambient
- Control pin voltage: ground or open

Our 10747 series Solid State Relays (SSR) combine the function of a power contactor and an arc fault circuit breaker into one small and efficient module.

The SSR fits in a standard M12883/48-02 socket and can switch up to 25A at 28 VDC and it can switch inductive or incandescent loads at the full rated current. There is also no wear out mechanism and the “on” resistance does not increase with age, providing a highly reliable solid-state alternative to mechanical relays.

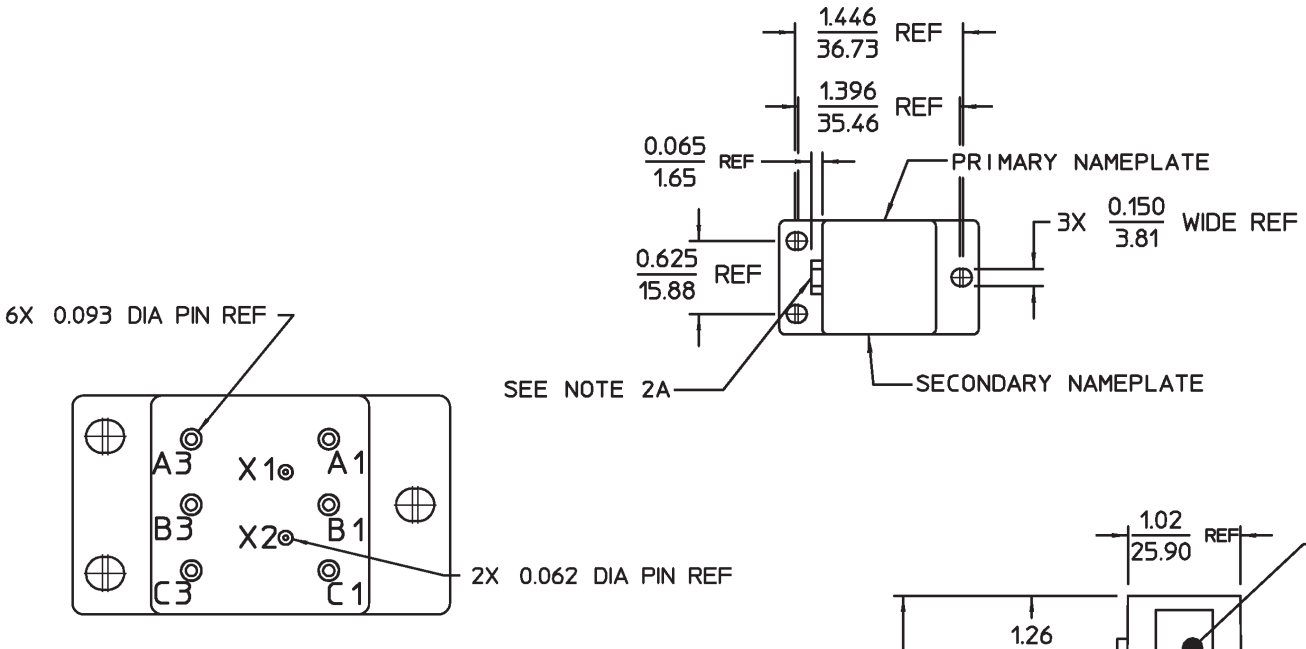
These circuit breakers provide super-fast arc fault protection with the ability to detect and trip on intermittent faults produced by wire insulation failure.

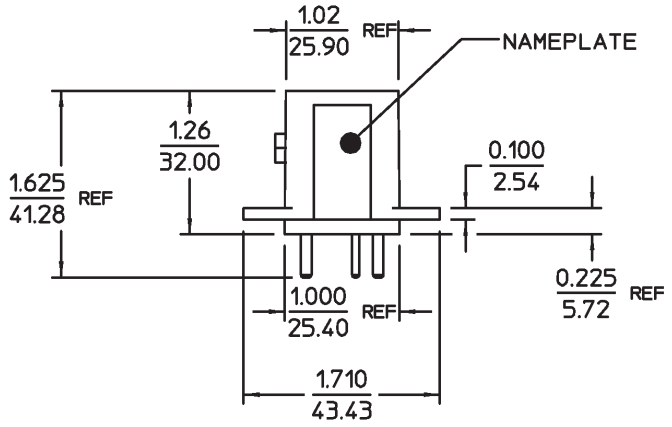
Unlike other solid-state products PDS offers a unique failsafe design. The SSR contains patented circuitry that prevents a failure in a short-circuited condition. This means that a failure will not cause a critical load to remain powered in an unprotected or uncontolled manner.

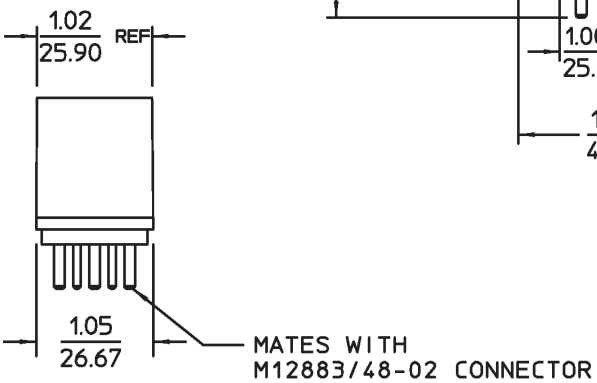


10747 SERIES
SOLID STATE RELAYS

Part Number	Current Range	Turn On / Turn Off Times at Full Load	Maximum Off State Voltage	Total On State Resistance	Maximum Voltage Drop at Full Current
10747P03E10	5 to 10A	20uS, 10% - 90%	± 0.1 VDC	0.004 Ohm	0.04
10747P03E15	7.5 to 15A	20uS, 10% - 90%	± 0.1 VDC	0.004 Ohm	0.06
10747P03E20	10 to 20A	20uS, 10% - 90%	± 0.1 VDC	0.004 Ohm	0.08
10747P03E25	15 to 25A	20uS, 10% - 90%	± 0.1 VDC	0.003 Ohm	0.07







Pin Assignment

PIN	FUNCTION
A1	Surge Set
B1	Module Trip LED Driver
C1	Overcurrent Set
X1	Control
X2	Ground
A3	Power Output
B3	Power Output
C3	Power In
L1	Power In