645RT Series - Solid State Reversing 10 - 40 Amp



The 645RT series of solid state relays uses triacs for reversing phases on three phase loads. The most typical use is motor reversing. Inputs are DC operated. Load currents can range from 10 to 40 amps and up to a nominal voltage of 480VAC. Both random turn on or zero cross is available.

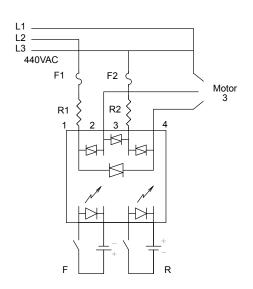


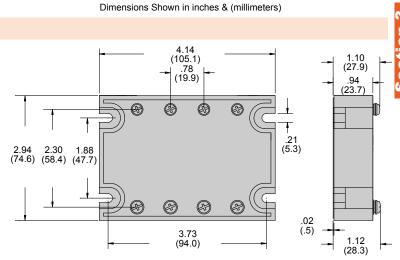
GENERAL SPECIFICATIONS (@ 25° C)

Input Characteristics	DC Input		
Input Voltage Must Release Voltage Maximum Input Current Reverse Polarity Protection	4 - 32VDC 1VDC / 8VDC 80mA Yes		
Output Characteristics	10 Amp	25 Amp	40 Amp
Min. Load current to maintain on Non-Repetitive Surge Current (1 cycle) Maximum I2T for Fusing (Asquared sec) Suggested Heatsink °C/W Load Voltage Range Frequency Range Peak Blocking Voltage Maximum Rate of Rise Off State Voltage (dv/dt) Max. Off state leakage current (rms) Max. On State Voltage Drop Maximum Turn-On Time @ 60 Hz Maximum Turn-Off Time @ 60 Hz	100mA 100A 50A2 S 0.5°C/W 50 to 480VAC 47 to 63 Hz 800 to 1200 250V/uS 10mA 1.6VAC 8.3mS 8.3mS	120mA 250A 312A2 S 0.14°C/W 50 to 480VAC 47 to 63 Hz 800 to 1200 250V/uS 10mA 1.6VAC 8.3mS 8.3mS	250mA 300A 450A2 S 0.14°C/W+FAN 50 to 480VAC 47 to 63 Hz 800 to 1200 250V/uS 10mA 1.6VAC 8.3mS 8.3mS
Miscellaneous Characteristics			
Dielectric Strength - I or O to case Operating Temperature Range Storage Temperature Range Weight Input Terminal Size Output Terminal Size	4000Vrms -30 to 80°C -40 to 100°C 320g M3.5 M4		



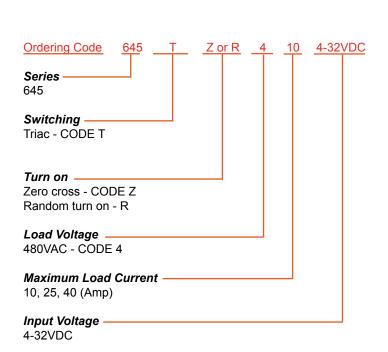
Foward / Reverse Motor Control Wire Diagram

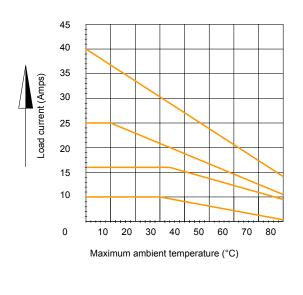




Outline Dimensions

Derating Curve







From: Brian Miller [mailto:bmiller@struthers-dunn.com]

Sent: Thursday, December 02, 2010 9:38 AM

To: Kevin Jackson

Subject: RE: Need Product Information

Hello Kevin,

On our 645 series when looking at the ordering code the first R is assumed. Please just add the T and R options to complete the part description.

I have attached our website PDF file to this email for you to review the options again. If this does not answer your question please email me back.

Thanks, Brian Miller Inside Sales Representative Struthers-Dunn, LLC