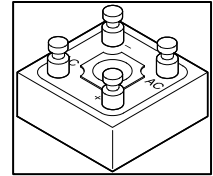


TECHNICAL DATA  
DATA SHEET 2014, REV. A



## THREE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY

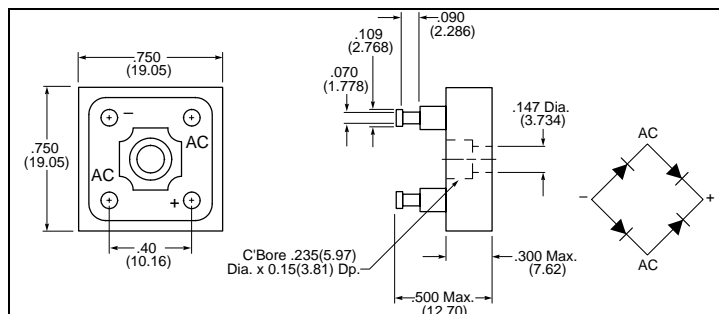
**DESCRIPTION:** A 200/400/600 VOLT, 7.5 AMP, 150 NANOSECOND THREE PHASE BRIDGE RECTIFIER ASSEMBLY.

**MAX. RATINGS / ELECTRICAL CHARACTERISTICS** All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV) S10A20FR S10A40FR S10A60FR	-	-	-	200 400 600	Vdc
Average DC Output Current ( $T_C$ = Case Temp) $(I_o)$	$T_C = 55^\circ\text{C}$ $T_C = 100^\circ\text{C}$ $T_C = 125^\circ\text{C}$	-	-	10 7.5 5.0	Amps
Average DC Output Current Ambient Temp. (no heat sink) $(I_o)$	$T_A = 25^\circ\text{C}$ $T_A = 55^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	4.0 3.0 2.0	Amps
Peak Single Cycle Surge Current $(I_{FSM})$	$t_p = 8.3$ ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	100	Amps(pk)
Peak Recurring Surge Current $(I_{FRM})$	$T_A = 25^\circ\text{C}$	-	-	50	Amps
Operating and Storage Temp. $(T_{op}$ & $T_{stg})$	-	-55	-	+150	$^\circ\text{C}$
Maximum Forward Voltage $(V_f)$	$I_f = 9.0\text{A}$ (300 $\mu\text{sec}$ pulse, duty cycle < 2%)	-	-	1.6	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	2.0 100	$\mu\text{Amps}$
Reverse Recovery Time ( $t_{rr}$ )	$I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} =$ 0.25A	-	-	250	nsec
Thermal Resistance ( $\theta_{JL}$ )	-	-	-	2.0	$^\circ\text{C/W}$

**SENSITRON**  
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**MECHANICAL DIMENSIONS: In Inches / mm**



**FIG. 401**

Note: Case finish - Black Anodized

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