

TECHNICAL DATA DATA SHEET 260, REV D

# THREE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY

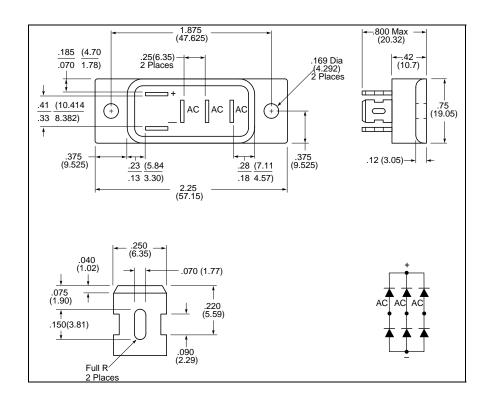
DESCRIPTION: 600 VOLT, 15 AMP, 195 NANOSECOND THREE PHASE BRIDGE RECTIFIER ASSEMBLY.

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

WAX. RATINGS / ELECTRIC	All rauli	All ratings are at $T_A = 25$ C unless otherwise specified.			
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	S25A360FR	-	-	600	Vdc
	S25A340FR			400	
Average DC Output	$T_C = 55$ °C	-	-	15	Amps
Current (T <sub>C</sub> = Case Temp)	$T_C = 100$ °C			11	
(I <sub>o</sub> )	$T_C = 125$ °C			7.5	
Average DC Output	$T_A = 25$ °C	-	-	5.0	Amps
Current Ambient Temp.	$T_A = 55^{\circ}c$			4.0	
(no heat sink) (I <sub>o</sub> )	$T_A = 100^{\circ} c$			2.5	
Peak Single Cycle Surge Current (I <sub>FSM</sub> )	t <sub>p</sub> = 8.3 ms, Single Half Cycle Sine Wave, Superimposed on Rated Load	-	-	100	Amps(pk)
Peak Recurring Surge Current (I <sub>FRM</sub> )	T <sub>A</sub> = 25 °C	-	-	40	Amps
Operating and Storage Temp. (T <sub>op</sub> & T <sub>stq</sub> )	-	-55	-	+150	°C
Maximum Forward Voltage (V <sub>f</sub> )	I <sub>f</sub> = 9A (300 μsec pulse, duty cycle < 2%)	-	-	1.6	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	T <sub>A</sub> = 25° C	-	-	5.0	μAmps
	T <sub>A</sub> = 100° C			100	
Reverse Recovery Time (t <sub>rr</sub> )	$I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A$	-	-	195	nsec
Thermal Resistance (θ <sub>JL</sub> )	-			1.5	°C/W

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



Note: Case finish - Black Anodized

#### FIG. 404

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