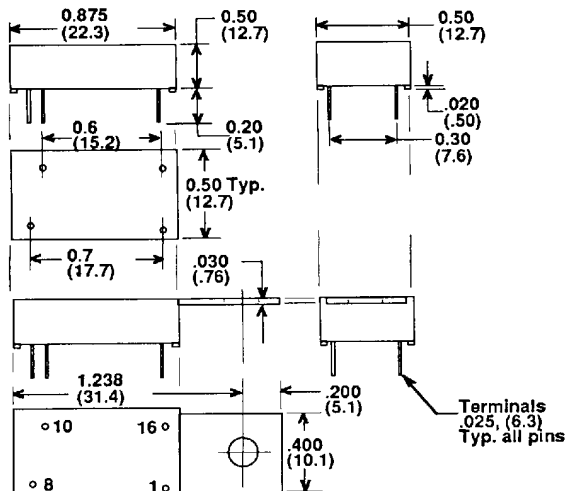


SOLID STATE RELAY

SSR

MAGNECRAFT ELECTRIC CO 58E D 5707101 0003651 8T2 MGF



Dimensions in Inches and (Millimeters)

CLASS 230
3 AMPS
SPST—NO
DC INPUTS
AC OUTPUTS
ZERO CROSSING



UL RECOGNIZED
FILE NO. E52197



CSA CERTIFIED
FILE NO. LR41729



CLASS 230E
1.5AMP



CLASS 230T
3.0 AMP

16 +Control
1 - Control
8 AC Load
10 AC Load

STOCK NUMBERS	PRINTED CIRCUIT	W230E-1-5	W230E-2-5	W230E-1-12	W230E-2-12
	PRINTED CIRCUIT WITH HEAT SINK	W230T-3-5	W230T-4-5	W230T-3-12	W230T-4-12
INPUT CHARACTERISTICS					
Input Voltage Range		5VDC	5VDC	12VDC	12VDC
Maximum Pickup Voltage (over operating temperature range)		4VDC	4VDC	9.3VDC	9.3VDC
Minimum Dropout Voltage (over operating temperature range)		2.0VDC			
Input Impedance		Input current (at nominal voltage) 13mA typical / 16mA max..			
Reverse Polarity Protected		No			
Input Filtered for transients less than one millisecond.		No			
Response Time		1/2 cycle			
OUTPUT CHARACTERISTICS					
Nominal Off State Voltage V_D (RMS)		120	240	120	240
Maximum Off State Voltage $V_{D\text{MAX}}$ (RMS)		140	280	140	280
Minimum Off State Voltage $V_{D\text{MIN}}$ (RMS)		20	40	20	40
Non-Repetitive Peak Voltage V_{DSM} (Blocking Voltage)		400	500	400	500
Maximum Rate of Rise of Off State Voltage dv/dt		200V/uSec.			
Rated Load Current I_T (RMS)*		1.5 Amps (230E)	3.0 Amps (230T)		
U/L Incandescent Lamp Ampere Rating				—	
U/L Motor Load Ampere Rating				—	
Minimum Load Current $I_{T\text{MIN}}$ (RMS) to maintain "On"				20mA	
Non-Repetitive Surge Current $I_{T\text{SM}}$ (one Cycle Surge)				20 Amp	
Maximum RMS Overload current for 1 second				5 Amp	
Maximum Off State Leakage current I_D (RMS)				1mA Max.	
Maximum RMS On-State Voltage V_T (RMS) Maximum Voltage drop across relay output @ rated current				1.7V	
MISCELLANEOUS CHARACTERISTICS					
Max. I^2T for fusing (8.3 m Sec)				4.5	
Thermal Resistance Junction to Case				230T= 8°C/w	
Suggested Heat Sink					
Dielectric Strength V_{iso} (Input-Output Isolation)				2500VAC	
Insulation Resistance R_{iso} @ 500VDC				$10^{10}\Omega$	
Operating temperature Range				-30° to + 80°C	
Storage temperature Range				-40° to + 100°C	
Weight		12 oz. (3.4g)-230E .20 Oz. (5.64g)-230T			

*All current ratings are based on use of suitable thermally conductive compound (e.g. silicone grease between the SSR mounting base and mounting surface of suitable heat sink).