

MINIATURE P.C. SOLID STATE RELAY

CLASS 230

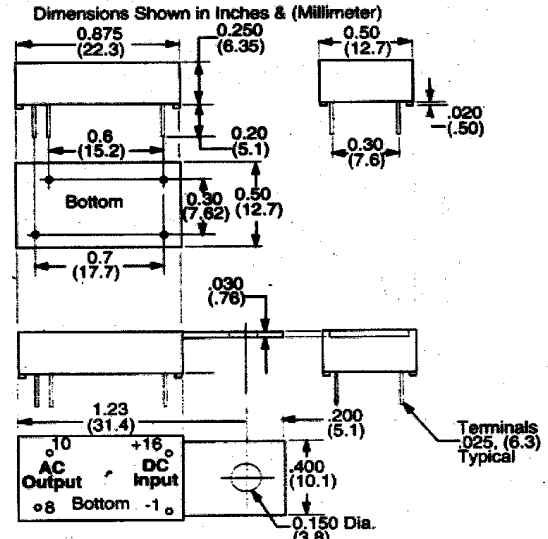


CLASS 230 E
1.5 AMP RATED



CLASS 230T
3.0 AMP RATED

CLASS 230
1.5 & 3 AMPS
SPST—NO
DC INPUTS
AC OUTPUTS
ZERO CROSS OVER
SWITCHING.



PIN 16 = + DC INPUT
PIN 1 = DC INPUT
PIN 8 = AC LOAD OUTPUT
PIN 10 = AC LOAD OUTPUT

Magnecraft PART 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	12V	12VDC
Maximum Pickup Voltage (over operating temperature range)		4VDC	4VDC	9.3VDC	9.3VDC
Minimum Dropout Voltage (over operating temperature range)		2.0 VDC			
Input Current		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 $V_{D MAX}$ (RMS)		140	280	140	280
Minimum Off State Voltage $V_{D MIN}$ (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_r (RMS)*		1.5 Amps (230E)		3.0 Amps (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).					
Minimum Load Current $I_{T MIN}$ (RMS) to maintain "On"		20mA			
Non-Repetitive Surge Current $I_{T SM}$ (one Cycle Surge)		20 Amp			
Maximum RMS Overload current for 1 second		5 Amp			
Maximum Off State Leakage current I_n (RMS)		1mA Max.			
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			
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			