MAGNECRAFT ELECTRIC CO

5707101 0003652 739 **E** MGF



231D 4 AMP

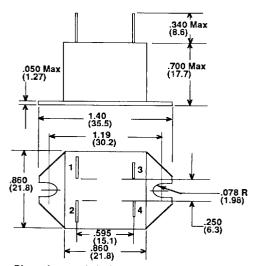
CLASS 231 4 AMPS SPST-NO DC INPUTS **AC OUTPUTS** ZERO CROSSING

UL RECOGNIZED FILE NO. E52197

CSA CERTIFIED FILE NO. LR41729

1 AC (LOAD) 2 AC (LOAD) 3 + (CONTROL) 4 - (CONTROL)

Quick disconnect terminals with .060 Dia. Holes Terminals 1 & 2, 1/4", .032 Brass



	Terminals 3 & 4, 3/16", .032 Brass	Dimensions are in Inches and (Millimeters)			
STOCK NUMBERS	FLANGE MOUNT	231D-3-5	231D-4-5	231D-3-12	231D-4-12
INPUT CHARACTERISTICS					
Input Voltage Range		5VDC	5VDC	12VDC	12VDC
Maximum Pickup Voltage (over operating temperature range)		4VDC	4VDC	9.3VDC	9.3VD0
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 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 _T (RMS)*		4.0 Amps(231D)			
U/L Incandescent Lamp Ampere	Rating				
U/L Motor Load Ampere Rating	•				
Minimum Load Current I _{T MIN} (RMS) t	to maintain "On"	<u> </u>	2	0mA	
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 In (RMS)		1mA Max.			
Maximum RMS On-State Voltage V _T (IT IFILM.	
Voltage drop across relay output @ rated current		1.7V			
MISCELLANEOUS CHARACTER			•	• • •	
Max. I ² T for fusing (8.3 m Sec)		4.5			
Thermal Resistance Junction to Case		230T= 8°c/w			
Suggested Heat Sink		TO-3 mounting 231D only			
Dielectric Strength V _{ISO} (Input-Output Isolation)		2500VAC			
Insulation Resistance R _{ISO} @ 500VDC		10 ¹⁰ Ω			
Operating temperature Range		-30° to + 80°C			
Storage temperature Range		-40° to + 100°C			
Weight		57 oz. (16.2 g)-231D			

^{*}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). Magneraty