



## NOTES

- 1 - EXPOSED PARTS ARE OF CORROSION RESISTANT MATERIAL OR ARE SUITABLY PROTECTED TO PREVENT CORROSION, ENCLOSURE FINISHED WITH BLUE EPOXY BASED ENAMEL COLOR NO. 25184 PER FEDERAL STANDARD 595
- 2 - SWITCH SEALED PER MIL-S-5594
- 3 - HOLD IN VOLTAGE: THE MINIMUM SPECIFIED VOLTAGE AT WHICH THE LEVER WILL REMAIN ACTUATED. HOLD IN MAY OCCUR AT A LOWER VALUE. DROP OUT VOLTAGE: THE VOLTAGE RANGE IN WHICH THE LEVER WILL BE RELEASED
- 4 - CIRCUITS CAN BE TRANSFERRED MANUALLY. ENERGIZING THE COIL WILL NOT CAUSE TRANSFER OF CIRCUITS
- 5 - CIRCUIT IDENTIFICATION IS SHOWN ON SWITCH
- 6 - HARDWARE MAY BE FURNISHED UNASSEMBLED PER MIL-S-5594
- 7 - SWITCHES DO NOT NECESSARILY OPERATE SIMULTANEOUSLY
- 8 - THE DIODES ARE JANTXV TYPE AND LIMIT THE EMI: SPIKES (TRANSIENTS OF DURATION LESS THAN 500 MICRO SECONDS) GENERATED BY THE SWITCH COIL SHALL NOT EXCEED 42 VOLTS
- 9 - CONTACT HONEYWELL-MICRO SWITCH IF ADDITIONAL INFORMATION ON LOW ENERGY LOADS IS REQUIRED OR FOR HELP WITH SPECIFIC APPLICATIONS
- 10 - CUSTOMER PART NUMBER 5PTV0505-I

SPECIFICATION DETAILS:		M	29E116-38-B
STANDARD:		CONFORMS TO MIL-S-5594	
CONSTRUCTION:			
ENCLOSURE DESIGN		SEALED TO 1 X 10 <sup>-6</sup> ATM*CC/S PER MIL-S-5594 PARA.3.12 & 4.9.8	
SEAL MATERIAL		SILICONE RUBBER	
CONTACT MATERIAL & CONFIGURATION		GOLD BIFURCATED CONTACTS $\sqrt{5}$	
CIRCUIT CONFIGURATION		4X S P D T	
TERMINATION		BOTTOM EXIT LEADWIRES	
WEIGHT		10 oz f (2.8N) MAX	
EXPOSED METALS		CORROSION RESISTANT OR SUITABLY PROTECTED TO PREVENT CORROSION	
ENCLOSURE PAINT		BLUE EPOXY BASED ENAMEL COLOR NO. 25184 PER FEDERAL STANDARD 595	
ELECTRICAL CHARACTERISTICS:			
ELECTRICAL RATINGS		<u>VOLTAGE</u>	<u>INDUCTIVE</u> <u>RESISTIVE</u>
-SEA LEVEL		28 VDC	.5 A      1 A
-65,000 FEET		28 VDC	.5 A      1 A
DIELECTRIC STRENGTH & INSULATION RES- -BETWEEN ALL TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL OR GROUNDED PARTS		<u>DIELECTRIC STRENGTH</u> ≈ 60 Hz FOR 5 SEC)	<u>INSULATION RESISTANCE</u>
		1000V RMS, 1000μA (MAX LKG)	N/A
-BETWEEN ALL TERMINALS OF MUTUALLY INSULATED CIRCUITS, INCLUDING BETWEEN POLES		1000V RMS, 1000μA (MAX LKG)	N/A
-BETWEEN ALL UNCONNECTED TERMINALS OF THE SAME POLE		1000V RMS, 1000μA (MAX LKG)	N/A
SWITCH RESISTANCE		N/A	
RECOMMENDATION OR USE IN APPL LESS THAN .5 amps AND/OR 12 volts		YES $\triangle_9$	
MECHANICAL CHARACTERISTICS: $\triangle_3$			
STEADY STATE LIMITS		20-29 VDC	
HOLD IN VOLTAGE		15 VDC	
DROP OUT VOLTAGE		0-15 VDC	
OPERATING FORCE AT 30 VDC		7 lbf (31, 1 N) MAX	
OVERRIDE FORCE AT 30 VDC		10 lbf (44, 5 N) MAX	
SOLENOID RESISTANCE AT 30 VDC AND 68° F (20° C)		220 OHMS MIN	
MOUNTING STRENGTH		15 lbf-IN (1,7 NM) MAX	
ACTUATING STRENGTH		25 lbf (111,2N) PER MIL-S-5594 PARA.3.8 & 4.9.4 A 15 lbf (66,7N) PER MIL-S-5594 PARA.3.8 & 4.9.4 B	
LIFE:			
MECHANICAL LIFE		40,000 CYCLES MIN PER MIL-S-5594 PARA.3.10 & 4.9.6	
ELECTRICAL LIFE AT FULL RATED LOAD		20,000 CYCLES MIN PER MIL-S-5594 PARA.3.11 & 4.9.7	
ENVIRONMENTAL:			
TEMPERATURE RANGE		-85° F (-65° C) TO +160° F (+71° C)	
ALTITUDE RANGE		SEA LEVEL TO 65,000 FT	
SHOCK		PER MIL-S-5594 PARA. 3.14 & 4.9.10	
VIBRATION		PER MIL-S-5594 PARA. 3.13 & 4.9.9	
MOISTURE RESISTANCE		PER MIL-S-5594 PARA. 3.17 & 4.9.13	
ACCELERATION		PER MIL-S-5594 PARA. 3.15 & 4.9.11	
SALT SPRAY		PER MIL-S-5594 PARA. 3.16 & 4.9.12	
SAND AND DUST		PER MIL-S-5594 PARA. 3.18 & 4.9.14	
EXPOSITION		PER MIL-S-5594 PARA. 3.19 & 4.9.15	



SCALE 2 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED  
TOLERANCES ARE

ONE PLACE	(.0)	+ .030
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TWO PLACE (.00) +.015

THREE PLACE (.000) -

ANGLES

WEIGHT