


- 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 VOLTAGE. 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

<b>SPECIFICATION DETAILS:</b>		M 29E 120-SB-E	
<b>STANDARD:</b>	CONFORMS TO MIL-S-5594		
<b>CONSTRUCTION:</b>			
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	SMOOTH GOLD PLATED SILVER CONTACTS $\sqrt{5}$		
CIRCUIT CONFIGURATION	4X S P D T		
TERMINATION	BOTTOM EXIT LEADWIRES		
WEIGHT	10 ozf (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		
<b>ELECTRICAL CHARACTERISTICS:</b>			
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	<u>DIELECTRIC STRENGTH</u>		<u>INSULATION RESISTANCE</u>
-BETWEEN ALL TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL OR GROUNDED PARTS	(≈ 60 Hz FOR 5 SEC)		
-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	1000V RMS, 1000μA (MAX LKG)		N/A
RECOMMENDATION OR USE IN APPL LESS THAN .5 amps AND/OR 12 volts	N/A		
	YES $\triangle 9$		
<b>MECHANICAL CHARACTERISTICS:</b> $\triangle 3$			
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		
VERRIDE 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		
<b>LIFE:</b>			
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		
<b>ENVIRONMENTAL:</b>			
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		
EXPLOSION	PER MIL-S-5594 PARA. 3.19 & 4.9.15		

THIRD ANGLE PROJECTION		
		
SCALE	2 : 1	
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±
WEIGHT	10 OZ MAX	