



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-MCRO SWITCH IF ADDITIONAL INFORMATION ON LOW ENERGY LOADS IS REQUIRED OR FOR HELP WITH SPECIFIC APPLICATIONS
- 10 - CUSTOMER PART NUMBER: 5PTV0505-1

SPECIFICATION DETAILS:		29E116-3B-K	
STANDARD:		CONFORMS TO MIL-S-5594	
CONSTRUCTION:			
ENCLOSURE DESIGN		SEALED TO 1 X 10 ⁻⁶ 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 ∇	
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	
ELECTRICAL CHARACTERISTICS:			
ELECTRICAL RATINGS		VOLTAGE	INDUCTIVE RESISTIVE
-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		DIELECTRIC STRENGTH INSULATION RESISTANCE ≈ 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		N/A	
RECOMMENDATION OR USE IN APPL LESS THAN .5 amps AND/OR 12 volts		YES ∇	
MECHANICAL CHARACTERISTICS: ∇			
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	
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 PLACE	(.00) +.015
THREE PLACE	(.000) +.005
ANGLES	+
WEIGHT	10 OZ MAX

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