

- MOUNTING NUT P/N 45T-3 ADJUST STOP P/N 215-33-003-01-53
- 3. STOPS MUST BE LOCATED ON POSITION 11 ONLY
- 4. SHORTING CONTACTS AT ALL POSITIONS
- 5. FOR ADDITIONAL REQUIREMENTS SEE CTS ENG. SPEC #EN-SPE-212001

UNIT: MM

CTS COM	IPONENTS TAIWAN LTD. HSIUNG, TAIWAN, ROC	CAD LIST : ACAD(A)-RDC-227 FILE NAME : 06043			
PART NO. 212	2P0111S332RA RE	CUSTOMER: DIGI-KEY			
SCALE : N/A	TOLERANCE UNLESS OTHERW SPECIFIED	DRAWN BY: C.E.Chen APPROVED BY: Be	ìh		
CTS TYPE : 212-P2	.X (1 PLACE): ± 0.3 12-1 .XX (2 PLACE): ± 0.13 ANGLE: ± 1.0°	CHECKED BY : ISSUED DATE : 08/15/0	06''		

'x

Х

X

Х

CHECK BETWEEN TERMINALS

CONNECTIONS

5

3

5

1

C - 5

C - 4

C - 3

c - 2

REST

C - 1

CHECK BETWEEN TERMENALS

CIRCUIT

CTS COMPONENTS TAIWAN, LTD.

ENGINEERING SPECIF					 CATION			SPEC NO.	
SPECIFICATION: DATE						EN-SPE-2120	J01A		
SPECIF	¹ICA	212 SERIES SELEC	TOR SWI	тсн			03-19-02'	PAGE OF 1 OF	2
		212 SERIES SEEEC	TORBUT	1011			03-17-02	1 01	
1.0) CE	MED AT .							
1.0		NERAL:							
	1.0 THIS SPECIFICATION APPLIES TO THE SELECTOR SWITCH 212 SERIES (ROTARY TYPE) STANDARD AND CUSTOMER CONFIGURATION								
	1.1 OPERATING TEMPERATURE RANGE : -20 °C TO +110 °C								
	1.2 STORAGE TEMPERATURE RANGE : -20 °C TO +110 °C								
2.0) <u>ME</u>	CHANICAL CHARACTE	RISTICS:						
	2.1	INDEXING : DOUBLE BUILDEXING FOR 2 THRO							
	INDEXING FOR 2 THROUGH 12 POSITIONS OR CONTINUOUS ROTATION 2.2 DETENT ROTATIONAL LIFE: 25,000 CYCLES THRU 12 POSITIONS AND RETURN								
					CLES PER	MINU'	TE		
		QUE: AS REQUIRED UP TO) 48 inch. oz	(3.4 kg	g-cm)				
	2.3 STOP STRENGTH: STANDARD: 15 inch-lbs (17 kg-cm)								
	2.4 MATERIAL: SHAFT: ■ ALUM □ BRASS □ BRASS WITH NI-PLATED □ BRASS WITH ZINC PLATED □								
	BUSHING: ☐ BRASS WITH NI-PLATED ☐ BRASS WITH ZINC PLATED ☐ BRASS								
	DETENT SPRING: STAINLESS STEELS, OR SPRING BRASS DEPENDING ON TORQUE REQUIREMENT. DETENT PLATE: STEEL CONTACT: SILVER PLATED PHOSOPHER BRONZE TERMINAL: SILVER PLATED BRASS STANDARD STATOR: GLASS REINFORCED PPA UL FLAME CLASS 94V-0 ROTOR AND ROTOR COVER: NYLON 66 UL FLAME CLASS 94V-2								
A		ITEM 4.0 ADDED	08-02-05	SM					
0		RELEASED	03-19-02	ML					
SYM		REVISION	DATE	BY	SYM]	REVISION	DATE	BY
WRITT	WRITTEN BY : S.M.TSAI			CUSTOMER : GENERAL					
REVIE	REVIEWED BY : H.Y.LIN				DISTRIBUTION:				
APPRO	OVED	BY : T.J.LEE							

CTS COMPONENTS TAIWAN, LTD.

ENCINEEDING ODECIEICATION	ENGINEERING SPECIFICATION SPEC NO. EN-SPE-212001A	
ENGINEERING SPECIFICATION		EN-SPE-212001A
SPECIFICATION:	DATE	PAGE OF
212 SERIES SELECTOR SWITCH	03-19-02'	2 OF 2

3.0 ELECTRICAL CHARACTERISTICS:

- 3.1 CONTACT RESISTANCE: 0.015 OHMS MAX MEASURED FROM ONE TERMINAL TO AN ADJACENT TERMINAL. (WHEN IS NOT ADJACENT, UP TO 180° APART, WILL MEASURE MUCH HIGHER DUE TO THE EXTRA METAL IN THE CIRCUIT). THE CIRCUIT RESISTANCE CHECK MEASURE ALL THE METAL IN THE CIRCUIT.
- 3.2 CONTACT LIFE: ROTATION THROUGH 12 POSITIONS AND RETURN WITHOUT APPRECIABLE RISE IN CONTACT RESISTANCE

UNLOADED: 50,000 CYCLES

LOADED (RESISTIVE) : 10,000 CYCLES

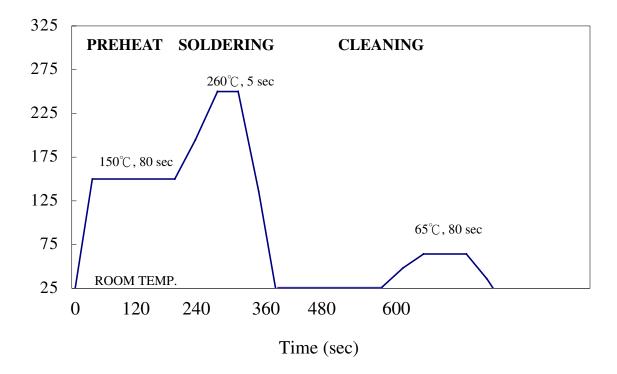
- 3.3 RATING:
 - 34 AMP @ 125 VAC
 - 1/4 AMP @ 250 VDC (SHORTING TYPE ONLY)
 - 1/2 AMP @ 125 VDC (SHORTING TYPE ONLY)
 - 1/4 AMP @ 28 VDC (SPECIAL RATING)
- 3.4 HI POT TEST:

BETWEEN ADJACENT 15 DEG. CIRCUITS: 750 VAC RMS FOR 1 MINUTE BETWEEN GROUND AND NEAREST TERMINAL: 1500 VAC FOR 1 MINUTE THE TEST VOLTAGE SHALL BE APPLIED BETWEEN ALL EVEN-NUMBERED CONTACTS TIED TOGETHER AND ALL ODD-NUMBERED CONTACTS TIED TOGETHER AND BETWEEN EACH OF THIS GROUP AND THE SWITCH FRAME FOR EACH SWITCH.

4.0 RoHS COMPLIANCE: THIS PART IS COMPLIANT WITH EU RoHS DIRECTIVE.

SYM	REVISION	DATE	BY	SYM	REVISION	DATE	BY
WRITTEN BY : S.M.TSAI			CUSTOMER : GENERAL				
REVIEWED BY : H.Y.LIN			DISTRIBUTION:				
APPROVED BY : T.J.LEE							

212 SOLDERING PROCESS



1. The temperature is referring to PC board, soldering or cleaning water temperature.