COUNT	DESCRIPTION	OF REVIS	IONS BY C		CHKD	CHKD DATE		COUNT		DESCRIPTION OF REVISIONS		BY CHKD		DAT	DATE	
								\triangle								
								\triangle								
APPLICA	BLE STANI	DARD			•							-	1	<u> </u>		
	erange -40 °C TO 85 °C temp					PRAGE PERATURE RANGE -10°CTO 50°C(PACKED CONDI				TION)						
RATING VOLTAGE		E		V	V AC/DC				RATING OR STORAGE RELATIV		RELATIVE HUM	TIVE HUMIDITY 90% MAX(NOT DEWED)				
	CURREN	※ 0.5 A					APPL	t=0.3±0.05 , GOLD PLAT				TED				
	SPECIFICATIONS															
IT		TEST METHOD REQUIREMENTS								QT	AT					
CONSTRU		IVISUALI	Y AND	BY	IFASU	IRING INS	STRU	IMENT	г. І	AC	CORDING TO	DRAWING.			TX	Ι×
MARKING				UALLY AND BY MEASURING INSTRUMENT. NFIRMED VISUALLY.					, toodibite to big time.				×	$\frac{1}{\times}$		
ELECTRIC	CHARACT	ERISTICS						<u> </u>					·			
1	ESISTANCE	1 mA (DC OR 1000 Hz).							50 mΩ MA	X.			×	×		
								INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)								
INSULATION RESISTANC	=	100 V DC.						500 MΩ MIN.				×	×			
VOLTAGE P		150	150 V AC FOR 1 min.							NO FLASHOVER OR BREAKDOWN.				×	×	
MECHANI	CAL CHAR										- 4-					
MECHANICAL OPERATION								① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				1 /				
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 DIRECTIONS.						① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 50 mΩ MAX.				. ×				
SHOCK		i e						③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.								
FPC RETENSION FORCE		MEASURED BY APPLICABLE FPC. (CONECTOR, FPC AT INITIAL CONDITION. THICKNESS OF FPC SHALL BE t=0.30mm)						DIRECTION OF INSERTION: 0.4×n N MIN. (n: NUMBER OF CONTACTS)				×	_			
ENVIRON	MENTAL CI															
RAPID CHANGE OF TEMPERATURE		1							① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					_		
DAMP HEAT		EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.						X					-			
(STEADY STATE) DAMP HEAT, CYCLIC		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.						① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX. ② INSULATION RESISTANCE: $1 \text{ M}\Omega$ MIN.					1 /	-		
									(AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)							
	(AT DRT) (A NO DAMAGE, CRACK AND LOOSENESS OF PARTS.							3								
DRY HEAT	DRY HEAT EXPOSED AT 85±2 °C, 96 h.						① CONTACT RESISTANCE: 50 mΩ MAX. × ② NO DAMAGE, CRACK AND LOOSENESS				_					
			(POSED AT -40±3 °C, 96 h.						OF PARTS.				×			
EMARKS								D.YA	AWN		T.MURAI	CHECKED Tabayan		ROVED	RELE.	ASED
I Inless of	Unless otherwise specified, refer to JIS C 5402. D.YAMADA T.MURAI Alwayso M. Johnda 04.03.25 04.03.25 04.03.26 04.03.26															
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test																
HS	HIS HIROSE ELECTRIC CO., LTD. SPECIFICATION SHEET FH12A -* *S - 0.5SH (55)															
CODE NO.(OI			DRAWIN	NG NO.					CC	ODE	NO.			- 0.0	111/	1 /
CL		ELC4 – 150722 – 51								/2						

TO NC

TO NC

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	ΑT				
CORROSION SALT MIST	EXPOSED AT 35 ± 2 °C, 5 % SALT WATER SPRAY FOR 96 h.	① CONTACT RESISTANCE: 50 mΩ MAX.② NO EVIDENCE OF CORROSION WHICH	×	_				
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY 80 ± 5 %, 25 ± 5 PPM FOR 96 h.	AFFECTS TO OPERATION OF CONNECTOR.	×	_				
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY 80 ± 5 %, 10 TO 15 PPM FOR 96 h.		×	_				
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX. REFLOW TMP. 230 °C MIN. FOR 30 sec. PRE-HEATING. 150 TO 200 °C 90 TO 120 sec. 2) SOLDERING IRONS : 350 ± 10 °C, FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×					
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 \pm 5 °C, FOR IMMERSION DURATION, 2 ± 0.5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	_				

WHEN THE SAME VALUE OF CURRENT ARE APPLID TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	D.YAMADA 04.03.25	04.03.25	P. Takayasu	,	
Unless otherwise specified, refer to JIS C 5402.			04.03.25	04.03.20	
Note QT:Qualification Test AT:Assurance Test ×:Applicable	Test				

PART NO. SPECIFICATION SHEET FH12A -* *S - 0.5SH (55) HIROSE ELECTRIC CO., LTD. DRAWING NO. CODE NO. CODE NO.(OLD)

ELC4 - 150722-51 CL

FORM No.231-2

CL 586