

APPLICABLE STANDARD		SPECIFICATIONS						
RATING	OPERATING TEMPERATURE RANGE	-55°C TO +85°C		STORAGE TEMPERATURE RANGE	-55°C TO +85°C			
	VOLTAGE	250VAC		OPERATING HUMIDITY RANGE	- % TO - %			
	CURRENT	1A		APPLICABLE CABLE	—			
ITEM	TEST METHOD		REQUIREMENTS		QT	AT		
CONSTRUCTION								
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X		
MARKING	CONFIRMED VISUALLY.				X	X		
ELECTRIC CHARACTERISTICS								
CONTACT RESISTANCE	10 mA MAX (DC OR 1000 Hz).		80 mΩ MAX.		X	X		
INSULATION RESISTANCE	250 V DC.		1000 MΩ MIN.		X	X		
VOLTAGE PROOF	500 V AC FOR 1 min. CURRENT LEAKAGE 2mA MAX.		NO FLASHOVER OR BREAKDOWN.		X	X		
MECHANICAL CHARACTERISTICS								
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE 45 N MAX. EXTRACTION FORCE 15 N MAX.		X	—		
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTACT RESISTANCE: 80 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
VIBRATION	FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, AT 3TIMES FOR 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 20μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS		X	—		
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.		3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
ENVIRONMENTAL CHARACTERISTICS								
DAMP HEAT, CYCLIC (STEADY STATE)	EXPOSED AT +85 85 % 1000h		1) INSULATION RESISTANCE: 100 MΩ MIN. (AT HIGH HUMIDITY) 2) INSULATION RESISTANCE: 1000 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → -5 → -35 → +85 → 5 → -35 °C TIME 30 → 2-3 → 30 → 2-3 min. UNDER 10 CYCLES.				X	—		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.				1) CONTACT RESISTANCE :80mΩ MAX. 2) NO HEAVY CORROSION.		X	—
HYDROGEN SULPHIDE	EXPOSED IN 10 PPM FOR 96 h (TEST STANDARD : JEIDA-38)						X	—
COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED			
0								
REMARK				APPROVED	HO. MIWA	05.09.06		
				CHECKED	HO. MIWA	05.09.06		
				DESIGNED	YH. ENAMI	05.09.06		
				DRAWN	YH. ENAMI	05.09.06		
Unless otherwise specified, refer to JIS C 5402.				DRAWING NO. ELC4-120646-01				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-120646-01				
	SPECIFICATION SHEET		PART NO.	FI40B-2015S (50)				
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL230-0524-0-50		1/1		