

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40°C TO +85°C	APPLICABLE CABLE	Φ8.5±0.3	
	VOLTAGE	250 V AC	CURRENT	1 A	
SPECIFICATIONS					
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		20 mV MAX, 10 mA (DC OR 1000 Hz).	BETWEEN CONTACT: 70 mΩ MAX. BETWEEN SHELL: 10 mΩ MAX	X	X
INSULATION RESISTANCE		250 V DC.	1000 MΩ MIN.	X	X
VOLTAGE PROOF		500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 58.8 N MAX. EXTRACTION FARCE 14.7 N MIN.	X	—
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 70 mΩ MAX. SHELL RESISTANCE:10 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
VIBRATION		FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, 98 m/s ² AT 3h FOR 6 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) CONTACT RESISTANCE: 70 mΩ MAX. SHELL RESISTANCE:10 mΩ MAX 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	—
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40 → 5 TO 35 → 105 → 5 TO 35 °C TIME 30 → 5 → 30 → 5 min. UNDER 10 CYCLES.	1) CONTACT RESISTANCE: 70 mΩ MAX. SHELL RESISTANCE: 10 mΩ MAX. 2) INSULATION RESISTANCE: 1000 MΩ MIN. 3) NO FLASHOVER OR BREAKDOWN. 4) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
DAMP HEAT/ CURRENT CARRYING		MATED CONNECTOR WITH CONTACTS CONNECTED IN SERIES. EXPOSED WITH CURRENT CARRYING AT TEMPERATURE 85°C, HUMIDITY 85% FOR 1000h. DC 0.5A , 30V LEAVE AT ROOM TEMPERATURE FOR 2h AFTER TESTING			
DRY HEAT/ CURRENT CARRYING		MATED CONNECTOR WITH CONTACTS CONNECTED IN SERIES. EXPOSED WITH CURRENT CARRYING AT TEMPERATURE 105°C, FOR 1000h. DC 0.5A , 30V LEAVE AT ROOM TEMPERATURE FOR 2h AFTER TESTING			
COLD RESISTANCE		LEAVE AT -40 °C, FOR 500h LEAVE AT 5 TO 35°C FOR 1 TO 2h AFTER TESTING.	1) CONTACT RESISTANCE: 70 mΩ MAX. SHELL RESISTANCE: 10 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE: 70 mΩ MAX. SHELL RESISTANCE: 10 mΩ MAX. 2) INSULATION RESISTANCE: 25 MΩ MIN. 3) NO HEAVY CORROSION.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	R.I. TAKAYASU	12. 07. 25
			CHECKED	EJ. WAKATSUKI	12. 07. 25
			DESIGNED	TS. ITO	12. 07. 25
			DRAWN	TY. ITO	12. 07. 23
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-122493-02
HRS	SPECIFICATION SHEET		PART NO.	FI40B-2015S-CVS (50)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL230-0533-0-50	△ 1/2

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