




APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C			
	VOLTAGE	AC 50 V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY: 90% MAX (NO DEW CONDENSATION IS PERMITTED)			
	CURRENT	0.4A					
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
GENERAL EXAMINATION		VISUAL AND WITH MEASURING INSTRUMENT		ACCORDING TO A DRAWING		X	X
MARKING		CONFIRM VISUALLY				X	X
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz)		110 mΩ MAX (*)		X	X
INSULATION RESISTANCE		100 V DC		100 MΩ MIN		X	—
VOLTAGE PROOF		150 V AC FOR 1 min		NO FLASHOVER OR BREAKDOWN		X	X
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 120.0 N MAX WITHDRAWAL FORCE: 10.0N MIN		X	—
MECHANICAL OPERATION		20 TIMES INSERTION AND EXTRACTION		1) CONTACT RESISTANCE: 120 mΩ MAX. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS		X	—
VIBRATION		FREQUENCY: 10 TO 55 Hz SINGLE AMPLITUDE: 0.75 mm, - m/s <sup>2</sup> 10 CYCLES IN 3 DIRECTIONS		1) NO ELECTRICAL DISCONTINUITY OF 1μs MIN. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS		X	—
SHOCK		490 m/s <sup>2</sup> , DURATION OF PULSE: 11 ms 3 TIMES IN 3 DIRECTIONS				X	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 40°C, 90~95 %, 96 h		1) CONTACT RESISTANCE: 120 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS		X	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → 15~35 → 85 → 15~35°C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES				X	—
DRY HEAT		EXPOSED AT 85°C, 96 HOURS		1) CONTACT RESISTANCE: 120 mΩ MAX 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS		X	—
COLD		EXPOSED AT -55°C, 96 HOURS				X	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION		X	—
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)		1) CONTACT RESISTANCE: 120 mΩ MAX 2) NO HEAVY CORROSION		X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
							
REMARK				APPROVED	TM. MATSUO	18.06.11	
*) THE VALUE OF CONTACT RESISTANCE INCLUDES 2 CONTACT POINTS AND THE BULK RESISTANCE OF A TRANSMISSION BOARD.  UNLESS OTHER SPECIFIED, REFER TO JIS C5402.				CHECKED	MK. EZAKI	18.06.07	
				DESIGNED	AS. MATSUZAWA	18.06.07	
				DRAWN	AS. MATSUZAWA	18.06.07	
NOTE -- QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST				DRAWING NO.		ELC-156243-00-00	
	SPECIFICATION SHEET			PART NO.	IT1-168P/28-23H		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL641-0263-4-00		
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