

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55°C TO 85°C	STORAGE TEMPERATURE RANGE	-10°C TO +60°C	
	VOLTAGE	AC 50V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY : 90 % MAX (NO DEW CONDENSATION IS PERMITTED)	
	CURRENT	SIGNAL:0.5A/PIN POWER: REFER TO IT3 DERATING CURVES FROM TEST REPORTS TR636E-20041 FOR POWER APPLICATION			
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND WITH MEASURING INSTRUMENT.	ACCORDING TO A DRAWING.	X	X
MARKING		CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).	60 mΩ MAX( *). MATED WITH IT3-100S-BGA.	X	X
INSULATION RESISTANCE		100 V DC.	1000 MΩ MIN.	X	—
VOLTAGE PROOF		150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES		MEASURED WITH APPLICABLE CONNECTOR.	INSERTION FORCE: 45 N MAX. WITHDRAWAL FORCE: 5 N MIN.	X	—
MECHANICAL OPERATION		100 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS. 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> . FOR 10 CYCLES IN 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
SHOCK		490 m/s <sup>2</sup> , DURATION OF PULSE: 11 ms. FOR 3 TIMES IN 3 DIRECTIONS.		X	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 hr.	1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS.	X	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 →15 TO 35→85→15 TO 35 °C. TIME 30 → 2 TO 3 →30 →2 TO 3 min. UNDER 5 CYCLES.	2)INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
DRY HEAT		EXPOSED AT 85 °C, 96 hr.	1)CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS.	X	—
COLD		EXPOSED AT -55 °C, 96 hr.	2)NO DAMAGE, CRACK OR LOOSENESS OF PART.	X	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hr.	1)CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS.	X	—
SULPHUR DIOXIDE (TEST STANDARD:JIS C 0090)		EXPOSED IN 25±5 PPM FOR 96 hr AT 40°C, Relative Humidity 80±5%.	2)NO HEAVY CORROSION.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	TY. TAKADA	20230117
(*)THE VALUE OF CONTACT RESISTANCE INCLUDES 2 CONTACT POINTS AND THE BULK RESISTANCE.			CHECKED	CHUNKAI YANG	20230117
			DESIGNED	KM. KUBOTA	20230117
			DRAWN	KT. UENO	20230116
Unless otherwise specified, refer to JIS C 5402(IEC-60512).					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-330095-03-00	
HRS	SPECIFICATION SHEET		PART NO.	IT3-100P-35H (03)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0636-0239-4-03	△ 1/1