

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-25 °C TO +85 °C		
	VOLTAGE	AC 30 V , DC 42 V		_____	_____		
	CURRENT	1 A		APPLICABLE CABLE	_____		
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		CONTACT SHALL BE MEASURED AT DC 1 A		30 mΩ MAX.		X	X
INSULATION RESISTANCE		100 V DC.		1000 MΩ MIN.		X	X
VOLTAGE PROOF		100 V AC. FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	X
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND WITHDRAWAL FORCES		_____		_____		-	-
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : — N MAX. LOCKING DEVICE WITH LOOK : 30 N MAX.		X	-
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 50 mΩ MAX.		X	-
VIBRATION		FREQUENCY: 10 → 55 → 10 (Hz) (1CYC,5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	-
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	-
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 5 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 50 MΩ MIN (AT DRY). ③ NO DAMAGE.CRACK AND LOOSENESS OF PARTS.		X	-
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→ R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.		① INSULATION RESISTANCE: 1000 MΩ MIN.. ② NO DAMAGE.CRACK AND LOOSENESS OF PARTS.		X	-
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSIN RUIN THE FUNCTION.		X	-
DRY HEAT		EXPOSED AT + 85 °C , 96 h.		NO DAMAGE,CRACK AND LOOSENESS OF PARTS.		X	-
COLD		EXPOSED AT - 55 °C , 96 h.		NO DAMAGE,CRACK AND LOOSENESS OF PARTS.		X	-
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, +380±10°C ,FOR IMMERSION DURATION, 3 ⁺¹ / ₀ s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 TO 3 s.		WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.		X	-
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
①							
REMARK (1)R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402.				APPROVED	MO.SATOH	06.10.12	
				CHECKED	MO.SATOH	06.10.12	
				DESIGNED	YH.YAMADA	06.10.11	
				DRAWN	MK.SATO	06.04.24	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-115085-00	
	SPECIFICATION SHEET			PART NO.		HR25A-7R-8PA	
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL125-0643-5-00	 1/1