

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	1 -25 °C TO +85 °C		STORAGE TEMPERATURE RANGE	2 -25 °C TO +60 °C		
	VOLTAGE	125 V AC		OPERATING HUMIDTY RANGE	85 %MAX		
	CURRENT	0.5 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	100 mA (DC OR 1000 Hz AC).	3 4 5		USING IDC TYPE : 50 mΩ MAX. (SIGNAL) USING SOLDER TYPE : 65 mΩ MAX. (SIGNAL)	X	-	
INSULATION RESISTANCE	100 V DC.			1000 MΩ MIN.	X	-	
VOLTAGE PROOF	250 V AC 1 min.			NO FLASHOVER OR BREAKDOWN.	X	X	
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE : 36 N MAX. WITHDRAWAL FORCE : 3.3 N MIN.		X	-	
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS. 3 4 5		1) CONTACT RESISTANCE USING IDC TYPE : 70 mΩ MAX. USING SOLDER TYPE : 85 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 5 min/CYCLES, TOTAL 10 CYCLES.		1) NO ELECTRICAL DISCONTINUITY OF 10 μs. 2) 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							
DAMP HEAT	TEMPERATURE 40 °C, HUMIDITY 90 TO 95 %, FOR 96 h.		1) INSULATION RESISTANCE: 100 MΩ MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
RAPID CHANGE OF TEMPERATURE	TEMP -55 → +5 TO +35 → +85 → +5 TO +35 °C TIME 30 → 5 → 30 → 5 min. UNDER 5 CYCLES. 3 4 5		1) CONTACT RESISTANCE USING IDC TYPE : 70 mΩ MAX. USING SOLDER TYPE : 85 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
CORROSION SALT MIST	EXPOSED AT 5 % SALT WATER, FOR 48 h.		NO HEAVY CORROSION THAT LOSE FUNCTION.		X	-	
SOLDERABILITY	1	SOLDERED AT SOLDER TEMPERATURE, 245 ± 5 °C FOR IMMERSION, DURATION 3 ± 0.5 S.		MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.	X	-	
RESISTANCE TO SOLDERING HEAT	1	A PROFILE IS SHOWN IN FIG-1, UNDR 2 CYCLES.		NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS.	X	-	
1 THE OPERATION TEMPERATURE INCLUDES THE RISE BY CURRENT CARRYING. 1				FIG-1 REFLOW TEMPERATURE PROFILE 1			
2 STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS. FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.							
3 EXCLUDES CONDUCTOR RESISTANCE OF CABLE.							
4 EXAMINATION IS HELD WITH "DH-37-CT*B", "DH3*B-37S" AND "DH80A-37P". (PLUG : IDC TYPE)							
5 EXAMINATION IS HELD WITH "DH-37-CT*B", "DH40-37S" AND "DH80A-37P". (PLUG : SOLDER TYPE)							
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
4	DIS-E-004287	MT. ITANO	EJ. WAKATSUKI	12. 07. 17			
REMARK Unless otherwise specified, refer to JIS C 5402.			APPROVED	AO. SUZUKI	12. 03. 12		
			CHECKED	RI. TAKAYASU	12. 03. 12		
			DESIGNED	MT. ITANO	12. 03. 12		
			DRAWN	MT. ITANO	12. 03. 12		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-127954-00		
HRS	SPECIFICATION SHEET		PART NO.	DH80A-37P			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL244-0068-5-00			
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