





**THE DATASHEET OF  
DF37C-60DP-0.4V(51)**



APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C		
	VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF37*-*DS-0.4V (**)		
	CURRENT	0.3A				
SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS	QT	AT		
CONSTRUCTION						
GENERAL EXAMINATION	CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X		
MARKING	CONFIRMED VISUALLY.		X	X		
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE	20mV AC OR LESS 1kHz, 1mA.	100mΩ MAX.	X	-		
INSULATION RESISTANCE	100V DC.	50MΩ MIN.	X	-		
VOLTAGE PROOF	100V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-		
MECHANICAL CHARACTERISTICS						
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		X	-		
		PIN COUNT			INSERTION FORCE [N MAX]	WITHDRAWAL FORCE [N MIN]
		10			15.4	2.6
		16			20.7	3.6
		20			24.3	4.4
		24			27.8	5.1
		30			33.1	6.2
		34			40.8	6.9
		40			41.9	8
		44			45.4	8.7
50	50.7	9.8				
60	59.5	11.7				
70	68.4	13.5				
74	71.9	14.2				
MECHANICAL OPERATION	10TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-		
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 10CYCLES, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-		
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-		
ENVIRONMENTAL CHARACTERISTICS						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85 °C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 ~3 MIN)	① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-		
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 25MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-		
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96h, 25°C, 75%. (REFER TO JIS C 60068)	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-		
SALT MIST	EXPOSED IN 5% SALT MIST FOR 48h.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-		
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
	1	DIS-H-00003087	YT. TAKAGI	TS. MIYAZAKI	17.09.28	
REMARKS			APPROVED	MO. NAKAMURA	07.01.29	
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	KH. IKEDA	07.01.29	
Unless otherwise specified, refer to JIS C 5402 and IEC 60512			DESIGNED	KY. MIDORIKAWA	07.01.29	
			DRAWN	KY. MIDORIKAWA	07.01.29	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-314974-01	
	SPECIFICATION SHEET		PART NO.	DF37C-*DP-0.4V (51)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684	1/1	

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