



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*-DP-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. 		INSERTION FORCE	WITHDRAWAL FORCE	X	—
			PIN COUNT	[N MAX]	[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 ² 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 NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT Unless otherwise specified, refer to JIS C 5402 and IEC 60512				APPROVED	KH. IKEDA	09. 06. 30	
				CHECKED	TS. MIYAZAKI	09. 06. 30	
				DESIGNED	TR. YUNOKI	09. 06. 29	
				DRAWN	TR. YUNOKI	09. 06. 29	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-319684-01		
	SPECIFICATION SHEET		PART NO.	DF37NC-*DS-0.4V(51)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684		1/1	