

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. 	<table><thead><tr><th></th><th>INSERTION FORCE</th><th>WITHDRAWAL FORCE</th></tr><tr><th>PIN COUNT</th><th>[N MAX]</th><th>[N MIN]</th></tr></thead><tbody><tr><td>10</td><td>15.4</td><td>2.6</td></tr><tr><td>16</td><td>20.7</td><td>3.6</td></tr><tr><td>20</td><td>24.3</td><td>4.4</td></tr><tr><td>24</td><td>27.8</td><td>5.1</td></tr><tr><td>30</td><td>33.1</td><td>6.2</td></tr><tr><td>34</td><td>40.8</td><td>6.9</td></tr><tr><td>40</td><td>41.9</td><td>8</td></tr><tr><td>44</td><td>45.4</td><td>8.7</td></tr><tr><td>50</td><td>50.7</td><td>9.8</td></tr><tr><td>60</td><td>59.5</td><td>11.7</td></tr><tr><td>70</td><td>68.4</td><td>13.5</td></tr><tr><td>74</td><td>71.9</td><td>14.2</td></tr></tbody></table>		INSERTION FORCE	WITHDRAWAL FORCE	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	X	—
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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			APPROVED	KH. IKEDA	09. 06. 30																																										
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	TS. MIYAZAKI	09. 06. 30																																										
			DESIGNED	TR. YUNOKI	09. 06. 29																																										
Unless otherwise specified, refer to JIS C 5402 and IEC 60512			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																																										