

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-35°C TO 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60°C			
	VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF40GB-48DP-0.4V (51)			
	CURRENT	0.35A					
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		20mV AC OR LESS 1kHz, 1m A .		90mΩ 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 42.0 N MAX WITHDRAWAL FORCE 6.0N MIN		X	—
MECHANICAL OPERATION		30TIMES INSERTIONS AND EXTRACTATIONS.		① CONTACT RESISTANCE: 90mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	—
VIBRATION		FREQUENCY 10 TO 55 TO 10 Hz, 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→ 5 TO 35→ 85→ 5 TO 35 °C TIME 30→ 5 MAX → 30→ 5 MAX min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 90mΩ 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: 90mΩ 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%.		① CONTACT RESISTANCE: 180mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
REMARKS				APPROVED	KH. IKEDA	13.02.18	
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT				CHECKED	AR. TAKAHASHI	13.02.16	
Unless otherwise specified, refer to JIS C 5402.				DESIGNED	TY. YAMASAKI	13.02.16	
				DRAWN	KR. AJITO	13.02.16	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-349574-02	
	SPECIFICATION SHEET			PART NO.	DF40GB (3.0)-48DS-0.4V (51)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL684-4197-1-51		1/1