





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 (*)-48DS-0.4V (51) DF40GB (*)-48DS-0.4V (61)	
	CURRENT	0.3A 			
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, 1mA .		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 EXTRACTIONS.		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 <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→ 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
	1	DIS-H-008160	KR. AJITO	TS. MIYAZAKI	13.09.24
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.		ELC4-349462-01
	SPECIFICATION SHEET		PART NO.	DF40GB-48DP-0.4V (51)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684-4195-6-51	 1/1