




APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-55°C TO 85°C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60°C			
	VOLTAGE	30V AC/DC	APPLICABLE CONNECTOR	DF40GL-44DP-0. 4V (**)			
	CURRENT	0. 35A					
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS			
CONSTRUCTION							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING		CONFIRMED VISUALLY.					
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 —		
LOCK STRENGTH		MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.		30N 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 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 —		
HEAT RESISTANCE OF SOLDERING		RECOMMENDED TEMPERATURE PROFILE SOLDERING AREA MAX 250°C, 220°C FOR 60 SECONDS MAX. PREHEATING AREA 150 TO 180°C 90 TO 120SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. RECOMMENDED MANUAL SOLDERING CONDITION SOLDERING IRON TEMPERATURE 350°C. SOLDERING TIME: WIHTIN 3 SECONDS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X —		
SOLDERABILITY		SOLDERING TEMPERATURE: 245±5°C DURATION OF IMMERSION: SOLDERING FOR 3 ±0.5 SECONDS.		A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED.	X —		
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
REMARKS			APPROVED	MO. ISHIDA	15. 07. 28		
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	WR. FUKUCHI	15. 07. 28		
Unless otherwise specified, refer to JIS C 5402, IEC 60512.			DESIGNED	SJ. WADA	15. 07. 27		
			DRAWN	KR. AJITO	15. 07. 27		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-355293-58-01			
	SPECIFICATION SHEET		PART NO.	DF40GL-44DS-0. 4V (58)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684-4411-0-58	 1/1		