

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD			
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTE1)	STORAGE TEMPERATURE RANGE
	VOLTAGE	100 V AC	APPLICABLE CONTACT
	CURRENT	AWG40 : 0.3A	APPLICABLE CONNECTOR
			APPLICABLE CABLE

SPECIFICATIONS	
ITEM	TEST METHOD
CONSTRUCTION	
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.
MARKING	CONFIRMED VISUALLY.
ELECTRICAL CHARACTERISTICS	
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).
CONTACT RESISTANCE	20 mV MAX, mA(DC OR 1000 Hz).
MILLIVOLT LEVEL METHOD	
INSULATION RESISTANCE	100 V DC.
VOLTAGE PROOF	300 V AC FOR 1 min.
MECHANICAL CHARACTERISTICS	
CONTACT INSERTION AND EXTRACTION FORCES	0.2 ± 0.005 mm BY STEEL GAUGE.
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.
MECHANICAL OPERATION	30 TIMES INSERTION AND EXTRACTION.
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h FOR 3 DIRECTIONS.
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.
ENVIRONMENTAL CHARACTERISTICS	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5~35 → +85 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.
DAMP HEAT(STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 ~95 %, 96 h.
CORROSION, SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.
HYDROGEN SULPHIDE	EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-38)
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 °C, FOR IMMERSION DURATION, 10 s.
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.
REMARKS	
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.	
DRAWN DESIGNED CHECKED APPROVED RELEASED	
J. Tashiro J. Tashiro J. One K. Katayama	
'99.4.12 '99.4.12 '99.4.12 '99.4.12	
Unless otherwise specified, refer to MIL-STD-1344.	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test	
HIROSE ELECTRIC CO., LTD.	
SPECIFICATION SHEET	
PART NO. DF19G-20S-1SD-GND	
CODE NO. (OLD)	DRAWING NO.
CL	ELC4-162937
PART NO.	CL 685-0027-6
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