

<b>APPLICABLE STANDARD</b>				
RATING	OPERATING TEMPERATURE RANGE	-35°C TO + 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C
	VOLTAGE	100V AC	APPLICABLE CONNECTOR	DF20A-*DS-1C
	CURRENT	1A	APPLAICABLE CABLE	—

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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#### CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

#### ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20mV MAX, 1 mA (DC OR 1000 Hz).	30mΩ MAX.	X	—
INSULATION	100V DC.	500MΩ MIN.	X	—
VOLTAGE PROOF	300V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—

#### MECHANICAL CHARACTERISTICS

MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRACTION.	① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. 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.		X	—

#### ENVIRONMENTAL CHARACTERISTICS

RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		X	—
CORROSION,SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	X	—
SULPHUR DIOXIDE	EXPOSED N 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)	NO HEAVY CORROSION.	X	—
RESISTANCE TO SOLDERING HEAT	1) AUTOMATIC SOLDERING (REFLOW) 《REFLOW AREA》 MAX 250°C WITHIN 10 sec. MIN 220°C WITHIN 60sec. 《PREHEATING AREA》 150 °C 60 TO 120 sec. PUT THROUGH IN REFROW FUMACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :300°C, SOLDERING TIME :3sec. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235°C FOR IN IMMERSION , DURATION, 5 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.	X	—

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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REMARKS NOTE 1:INCLUDING THE TEMPERATURE RISING BY CURRENT.  Unless otherwise specifid , refer to JIS C 5402.	APPROVED	TY.OMA	05.10.03
	CHECKED	HK.UMEHARA	05.10.03
	DESIGNED	IO.DENPOUYA	05.10.01
	DRAWN	AK.MIURA	05.09.29

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-164512-02
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<b>HRS</b>	SPECIFICATION SHEET	PART NO.	DF20F-*DP-1H (50)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL686