

APPLICABLE STANDARD		150 V AC	CURRENT	1 A
RATING	VOLTAGE			
	OPERATING TEMPERATURE RANGE	-35°C TO +85 °C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C (NOTE3)
	OPERATING HUMIDITY RANGE	20 % TO 80 % (NOTES 2)	STORAGE HUMIDITY RANGE	20 % TO 70 % (NOTE3)
	APPLICABLE CONNECTOR	DF13-3S-1. 25C	APPLICABLE CONTACT	DF13 (G)-2630SCFA DF13-3032SCFA

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

<b>ELECTRIC CHARACTERISTICS</b>				
CONTACT RESISTANCE	100 m A (DC OR 1000 Hz).	30 mΩ MAX.	X	-
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	X	-
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-

<b>MECHANICAL CHARACTERISTICS</b>				
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30 mΩ 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	-

<b>ENVIRONMENTAL CHARACTERISTICS</b>				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35°C TIME 30→10 TO 15→30→10 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ 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	-
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING «REFLOW AREA» MAX250°C WITHIN 10 sec MIN 230°C WITHIN 60 sec «PREHEATING AREA» 170°C to 190°C 60 to 120 sec PUT THROUGH IN REFLOW FURNACE TWICE LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :350°C, SOLDERING TIME : 3sec. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3sec.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	X	-

**REMARKS**  
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT  
NOTE2:NO CONDENSING  
NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFOR PCB ON BOARD,  
AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION.

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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Unless otherwise specified, refer to JIS C 5402.		APPROVED	HK. UMEHARA	11. 10. 03
		CHECKED	HK. UMEHARA	11. 10. 03
		DESIGNED	HT. SATO	11. 10. 03
		DRAWN	MI. SAKIMURA	11. 09. 29

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-083459-03

<b>SPECIFICATION SHEET</b>		PART NO.	DF13A-3P-1. 25H (20)	
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL536-0302-0-20	△ 1/1