

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE	
OPERATING TEMPERATURE RANGE		-35°C TO +85°C (NOTES 1)	
RATING		-10°C TO +60°C	
VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF36-25P-0.4SD
CURRENT	0.25A		

SPECIFICATIONS			
ITEM	TEST METHOD	REQUIREMENTS	
CONSTRUCTION			
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X X
MARKING	CONFIRMED VISUALLY.		X X
ELECTRIC CHARACTERISTICS			
CONTACT RESISTANCE	100m A (DC OR 1000 Hz).	CONTACT:80mΩ MAX. SHIELDING:80mΩ MAX.	X —
INSULATION RESISTANCE	100V DC.	50MΩ MIN.	X —
VOLTAGE PROOF	100V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X —
MECHANICAL CHARACTERISTICS			
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTATIONS.	① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X —
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS x 10 CYCLE.	① NO ELECTRICAL DISCONTINUITY OF 1 μS.	X —
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X —
ENVIRONMENTAL CHARACTERISTICS			
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85 °C 30 → 30 min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE CHAMBER IS 2-3 MINUTE.)	① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② INSULATION RESISTANCE: 25 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 —
SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY 48 h.	NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	X —
SULFUR DIOXIDE GAS	EXPOSED IN 10-15 PPM 96h.		X —
RESISTANCE TO SOLDERING HEAT	① REFLOW TEMPERATURE: PEAK 250°C MAX, 240°C MIN .20 sec MAX 220°C MIN .60 sec MAX ② MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X —
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3 sec.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X —
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED DATE
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REMARKS			
NOTE1. INCLUDE THE TEMPERATURE RISING BY CURRENT			
Unless otherwise specified, refer to JIS C 5402, IEC60512.		APPROVED	TY. OMA
		CHECKED	TS. SAKATA
		DESIGNED	MM. KENJO
		DRAWN	HY. SHIOZAWA
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-312852-01

SPECIFICATION SHEET		PART NO.	DF36-25S-0.4V(51)
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL662-4005-1-51
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