








**THE DATASHEET OF  
DF36A-45S-0.4V(51)**



APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C	
	VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF36-45P-0.4SD	
	CURRENT	0.25A			
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
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 EXTRACTIONS.		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 × 10 CYCLE.		① NO ELECTRICAL DISCONTINUITY OF 1 μs.	X	-
SHOCK	490 m/s <sup>2</sup> 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 TIME 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.	X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	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
	2	DIS-H-001866	HY. SHIOZAWA	TS. SAKATA	07.03.19
REMARKS			APPROVED	TY. OMA	06.12.18
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	TS. SAKATA	06.12.17
Unless otherwise specified, refer to JIS C 5402, IEC60512.			DESIGNED	MN. KENJO	06.12.15
			DRAWN	MN. KENJO	06.12.15
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-313245-01	
	SPECIFICATION SHEET		PART NO.	DF36A-45S-0.4V (51)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL662-4008-0-51	 1/

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