

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85°C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60°C
	VOLTAGE	80 V AC	APPLICABLE CONNECTOR	DF24 * -50DS-0.9C
	CURRENT (NOTES 1, 2)	AWG 28 : 1.0 A AWG 30 : 0.5 A AWG 32 TO 36 : 0.3 A		

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, 1mA (DC or 1000Hz).	30 mΩ MAX.	X	-
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	X	-
VOLTAGE PROOF	250 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-

MECHANICAL CHARACTERISTICS

MECHANICAL OPERATION	30 TIMES INSERTION AND EXTRACTION.	①CONTACT RESISTANCE: 30 mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
CONTACT INSERTION AND EXTRACTION FORCES	IT TAKES OUT AND INSERTS WITH A CONFORMITY CONNECTOR.	①INSERTION FORCE : 35 N MAX. ②EXTRACTION FORCE: 5.5N MIN.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR 3 DIRECTION.	①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	-

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2°C, 90 TO 95 %, 96 h.	①CONTACT RESISTANCE: 30 mΩ MAX. ②INSULATION RESISTANCE: 250 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→15 TO 35→+85→15 TO 35°C TIME 30→ 2 TO 3 → 30→ 2 TO 3min UNDER 5 CYCLES.	①CONTACT RESISTANCE: 30 mΩ MAX. ②INSULATION RESISTANCE: 500 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
CORROSION, SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48h.	NO HEAVY CORROSION	X	-
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS-C-0090)		X	-
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING 《REFLOW AREA》 MAX 250°C MIN 240°C 20 sec. 《PREHEATING AREA》 220 °C 60 sec. PUT THROUGH IN REFLOW 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 350 °C, FOR 3 sec. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERING TEMPERATURE : 230°C DURATION OF IMMERSION :SOLDERING, FOR 3 sec.	NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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REMARKS NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE 2: TO REQUIRE THE CURRENT LOCALLY EXCEEDING RATING,EVALUATION IS REQUIRED SEPARATELY. Unless otherwise specified, refer to JIS C 5402.	APPROVED	TY. OMA	05.09.01
	CHECKED	HK. UMEHARA	05.09.01
	DESIGNED	TS. KUMAZAWA	05.09.01
	DRAWN	FK. MATSUKI	05.08.31

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-301587-01
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HRS	SPECIFICATION SHEET	PART NO.	DF24A-50DP-0.9V(51)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL687-3209-2-51

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