

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

TO

DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

APPLICABLE STANDARD	
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OPERATING TEMPERATURE RANGE	- 3 5 °C TO 8 5 °C(NOTE1)	STORAGE TEMPERATURE RANGE	- 1 0 °C TO 6 0 °C
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RATING VOLTAGE	5 0 V A C	APPLICABLE CONNECTOR	DF23A/C-30DS-0.5V
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CURRENT	0. 3 A		
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SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	Q/T	A/T
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GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING.

MARKING CONFIRMED VISUALLY. X X X

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE 100 mA (DC OR 1000 Hz): 60 mΩ MAX. X -

INSULATION RESISTANCE 100 V DC: 500 MΩ MIN. X -

VOLTAGE PROOF 150 V AC FOR 1 min: NO FLASHOVER OR BREAKDOWN. X -

MECHANICAL CHARACTERISTICS

INSERTION AND WITHDRAWAL FORCES MEASURED BY APPLICABLE CONNECTOR. INSERTION FORCE: 40 N MAX. EXTRACTION FORCE: 4.5 N MIN. X -

MECHANICAL OPERATION 50 TIMES INSERTIONS AND EXTRACTIONS. CONTACT RESISTANCE: 60 mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. X -

VIBRATION FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h FOR 3 DIRECTIONS. NO ELECTRICAL DISCONTINUITY OF 1 μs. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. X -

SHOCK 490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. NO ELECTRICAL DISCONTINUITY OF 1 μs. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. X -

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE) EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h. CONTACT RESISTANCE: 60 mΩ MAX. INSULATION RESISTANCE: 250 MΩ MIN. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. X -

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. CONTACT RESISTANCE: 60 mΩ MAX. INSULATION RESISTANCE: 500 MΩ MIN. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. X -

CORROSION SALT MIST EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. CONTACT RESISTANCE: 60 mΩ MAX. NO HEAVY CORROSION. X -

SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h. CONTACT RESISTANCE: 60 mΩ MAX. NO HEAVY CORROSION. X -

REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.

UNLESS OTHERWISE SPECIFIED, REFER TO IEC60512.	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	<i>A. Hirota</i>	<i>T. Yamamoto</i>	<i>K. Ito</i>	<i>K. Ito</i>	
	03.7.25	03.7.25	03.7.25	03.7.25	

Note QT: Qualification Test AT: Assurance Test X: Applicable Test

HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.	DF23C-30DP-0.5V(92)
CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-164004-02	CL688-0802-0-92	1

