

In case of consideration for using Autom otive equipm ent./device which dem and high reliability, kindly contact our sales w indow correspondents.

TO

DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD			
OPERATING TEMPERATURE RANGE	- 3.5 °C TO 8.5 °C (NOTE1)	STORAGE TEMPERATURE RANGE	- 10 °C TO 60 °C
RATING VOLTAGE	5.0 V A C	APPLICABLE CONNECTOR	DF23A/G-18DS-0.5V
CURRENT	0.3 A		

SPECIFICATIONS		REQUIREMENTS		Q/T	AT
ITEM	TEST METHOD				

CONSTRUCTION	VISUALLY AND BY MEASURING INSTRUMENT.	CONFIRMED VISUALLY.	ACCORDING TO DRAWING.	X	X
MARKING				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: 28 N MAX. EXTRACTION FORCE: 2.7 N MIN.		X	-
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 MΩ MAX. ② 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.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS. OF PARTS.		X	-
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS. OF PARTS.		X	-

ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 60 MΩ MAX. ② INSULATION RESISTANCE: 250 MΩ MIN. ③ 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.	① CONTACT RESISTANCE: 60 MΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS. OF PARTS.		X	-
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 60 MΩ MAX. ② NO HEAVY CORROSION.		X	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)	① CONTACT RESISTANCE: 60 MΩ MAX. ② NO HEAVY CORROSION.		X	-

REMARKS					
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.					
Unless otherwise specified, refer to IEC60512					
Note	QT: Qualification Test	AT: Assurance Test	x: Applicable Test		
DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
T. Yamamoto '03.10.1	T. Yamamoto '03.10.2	K. Kobayashi '03.10.2	K. Kobayashi '03.10.2		

HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. DF23C-18DP-0.5V(92)	
CODE NO.(OLD)	DRAWING NO.	ELC4-164161-04	CODE NO.	CL688-0808-7-92	
CL					1
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