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

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTE1)			STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C			
	VOLTAGE	1 0 0 0 V AC			APPLICABLE CONNECTOR	DF22 *S-7.92C			
	CURRENT	AWG14 : 18A AWG16 : 15A			APPLICABLE CABLE	UL1015:AWG14~16			
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			○	○
MARKING		CONFIRMED VISUALLY.						○	○
ELECTRIC CHARACTERISTICS									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			mΩ MAX.			—	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX. 1 mA(DC OR 1000 Hz).			INITIAL RESISTANCE : 5 mΩ MAX.			○	—
INSULATION RESISTANCE		1000 V DC.			1000 MΩ MIN.			○	—
VOLTAGE PROOF		2500 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			○	—
MECHANICAL CHARACTERISTICS									
CONTACT INSERTION AND EXTRACTION FORCES		0.8 ± 0.002 × 1.6 ± 0.002 BY STEEL GAUGE.			INSERTION FORCE 5.0 N MAX. EXTRACTION FORCE 0.3 N MIN.			○	—
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.			—	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 10 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○	—
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2h, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs.			○	—
SHOCK		490 m/s ² DURATION OF PULSE 11ms AT 3 TIMES FOR 3 DIRECTIONS.			② CONTACT RESISTANCE: 10mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○	—
ENVIRONMENTAL CHARACTERISTICS									
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → 5 ~ 35 → 85 → 5 ~ 35 °C TIME 30 → 5 → 30 → 5 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 10 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○	—
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h.			① CONTACT RESISTANCE: 10 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○	—
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, °C. FOR IMMERSION, DURATION, s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			—	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, °C FOR IN IMMERSION, DURATION. s.			SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.			—	—
REMARKS									
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to MIL-STD-1344.					<i>T. Miyazaki</i> 00.2.9	<i>T. Miyazaki</i> 00.2.9	<i>K. Akuyama</i> 00.3.1	<i>K. Katayama</i> 00.3.1	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. DF22A-1416SC		
CODE NO.(OLD)		DRAWING NO			PART NO			1/1	
CL		ELC4-163018			CL680-1003-1				

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