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

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-40°C TO +105°C (INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING)	STORAGE TEMPERATURE RANGE	-40°C TO +60°C
	VOLTAGE	AC, DC 300 V	CURRENT	5A
	APPLICABLE CABLE	AWG#16 TO AWG#18		

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
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz) MAX.	35 mΩ MAX.	X	X
INSULATION RESISTANCE	250 V DC.	5000 MΩ MIN.	X	-
VOLTAGE PROOF	1000 V AC. FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE : 49 N MAX. WITHDRAWAL FORCE : 49 N MAX.	X	-
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE : 40 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY : 10 TO 55 Hz, SINGE AMPLITUDE 0.75 mm, AT 5 min/CYCLE. TOTAL 10 CYCLES.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSION AXIS FOR 3 TIMES AT 490 m/s² DURACTIONS OF PULSE 11 ms.		X	-
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → 105°C TIME 30 → 30 min. UNDER 5 CYCLES. CHAMBER TRANSFER TIME IS 2 to 3 min.	① CONTACT RESISTANCE : 40 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
HUMIDITY LIFE	TEMPERATURE 40 °C, HUMIDITY 90 TO 95 %, FOR 96 h. (MATED)	① CONTACT RESISTANCE : 40 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. (AFTER IT DRIER) ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
HEAT RESISTANCE	EXPOSED AT 105 °C ± 2 °C, 96 h. (MATED)	① CONTACT RESISTANCE : 40 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
COLD RESISTANCE	EXPOSED AT -40 °C ± 2 °C, 96 h. (MATED)	① CONTACT RESISTANCE : 40 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. (MATED)	NO HEAVY CORROSION THAT LOSE FUNCTION.	X	-

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

ABOVE SPESIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACTS.

Unless otherwise specified, refer to JIS C 5402.

APPROVED	RI. TAKAYASU	12. 12. 04
CHECKED	AH. KODAMA	12. 12. 04
DESIGNED	TY. MIURA	12. 12. 04
DRAWN	TY. MIURA	12. 12. 04

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

DRAWING NO. ELC4-128200-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. PS2-1618SCA

CODE NO. CL236-1052-6-00 A 1/1

FORM HD0011-2-1