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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	-55 % TO 85 %	STORAGE TEMPERATURE RANGE	-40 % TO 60 % (Note 1)
	VOLTAGE	300 V AC, 420 V DC	OPERATING HUMIDITY RANGE	– % TO – %
	CURRENT	3 A	APPLICABLE CABLE	–

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
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	1 A MAX (DC OR 1000 Hz).	7 mΩ MAX.	X	X
INSULATION RESISTANCE	500 V DC.	1000 MΩ MIN.	X	X
VOLTAGE PROOF	1000 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS				
Contact Insertion and Extraction Forces	ϕ1.041 max ϕ0.991 min by steel gauge.	3.33 N max 0.28 N min	x	–
Mating and Unmating Forces	Measured with an applicable connector.	Insertion force : 122.5 N max.	x	–
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 10 mΩMAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	–
VIBRATION	FREQUENCY 10 TO 2000 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s^2 AT 4 h, FOR 3 DIRECTIONS.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	–
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.		X	–
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE –65 → 5～35 → 125 → 5～35 ℃ TIME 30 → 2～3 → 30 → 2～3 min UNDER 5 CYCLES.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	–
DAMP HEAT,CYCLIC (STEADY STATE)	EXPOSED AT 25～65 ℃ 90～98 % 240 h	1) INSULATION RESISTANCE: 1 MΩ MIN.(AT HIGH HUMIDITY) 1000 MΩ MIN.(AT DRY) 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	–
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0					

REMARK

1.Storage temperature range indicates storage conditions including packaging materials. The storage conditions after product mounting are within the operating temperature range.

Unless otherwise specified, refer to JIS C 5402(IEC-60512).

APPROVED	TU.TANIGUCHI	20241006
CHECKED	KG.OKITA	20241005
DESIGNED	KH.KUZUMAKI	20241004
DRAWN	KH.KUZUMAKI	20241004

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

HRS		DRAWING NO.	ELC-007711-10-00
SPECIFICATION SHEET		PART NO.	SD-1645A(10)
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0216-0386-1-10 0 1/1

FORM HD0011-2-1