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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 °C TO +85 °C (Note 1)	Storage Temperature Range	−55 °C TO +85 °C (Note 2)	
	Voltage	125 V AC	Operating Humidity Range	95% Max	
	Current	1 A	Applicable Wire	UL20276 AWG #28	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
General Examination		Visually and by measuring instrument.	According to drawing.	X	X
Marking		Confirmed visually.		—	—
ELECTRICAL CHARACTEREISTICS					
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).	50 mΩ max.	X	X
Insulation Resistance		125 V DC	250 MΩ min.	X	X
Voltage Proof		300 V AC. for 1 min. (Leakage current : 2mA max)	No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS					
Mating and Unmating Forces		Measured with an applicable connector.	Mating force : 53.9N min. Unmating force : 14.7 N max.	X	—
Mechanical Operation		Mated and unmated 1000 times.	① Contact resistance : 50 mΩ max. ② No damage, crack and looseness of parts.	X	—
Vibration		Frequency : 10 to 55 Hz, singe amplitude 0.75 mm, at 2 h for 6 directions.	No damage, crack and looseness of parts.	X	—
Shock		490 m/s ² duration of pulse 11 ms for 3 times in 3 both axial directions.		X	—
ENVIRONMENTAL CHARACTERISTICS					
Humidity Life		Exposed at 40 °C, 90 ~ 95 %, 96 h.	① Insulation resistance : 1 MΩ min. (at high humidity.) 100 MΩ min. (at dry.) ② No damage, crack and looseness of parts.	X	—
Rapid Change of Temperature		Temperature −55 → 5 to 35 → 85 → 5 to 35 °C Time 30 → 5 → 30 → 5 min Under 5 cycles.	No damage, crack and looseness of parts.	X	—
Corrosion Salt Mist		Exposed in 5 % salt water spray for 48 h.	No heavy corrosion.	X	—
(Note 1) The operation temperature includes the temperature rise by current carrying. (Note 2) Storage temperature range shows storage condition for unused products including packing materials. Follow the operating temperature range for storage condition after mounting.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	RI. TAKAYASU	18. 06. 05
			CHECKED	AH. KODAMA	18. 06. 05
			DESIGNED	MO. SHIMOYAMA	18. 06. 05
			DRAWN	MT. YASUDA	18. 06. 05
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-044930-55-04	
HRS	SPECIFICATION SHEET		PART NO.	DX31A-50S-LNA (55)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL230-0193-4-55	△ 1/1