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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		UL498, CSA22.2 No.42		
Rating	Operating Temperature Range	−10℃ to 60℃	Storage Temperature Range	- °C to - °C
	Voltage	(Note 1)	Operating Humidity Range	- % to - %
	Current	(Note 1)	Applicable Wire	UL1007

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
General Examination	Visually and by measuring instrument.	According to the drawing.	X	X
Marking	Confirmed visually.		X	X
ELECTRIC CHARACTERISTICS				
Insulation Resistance	500 V DC.	5000 MΩ min.	X	X
Voltage Proof (Note 2)	Power contact 2000 V AC. for 1 min. Signal contact 500 V AC. for 1 min.	No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS				
Mating and Unmating Forces	Measured with an applicable connector.	39.2 N max.	X	-
Vibration	Frequency : 10 to 55 Hz, single amplitude 0.75 mm, at 2 h each in 3 axial 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				
Rapid Change of Temperature	Temperature -55 → 5 to 35 → 85 → 5 to 35 °C Time 30 →2 to 3 → 30 →2 to 3 min. Under 5 cycles.	No damage, crack and looseness of parts.	X	-
Humidity Life	Exposed at 25 to 65 ℃, 93 ± 3 %, 240 h.	1) Insulation resistance 1 MΩ min (at high humidity) 3000 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 that lose function.	X	-

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠0					

REMARK

(Note 1) Rated voltage and current are shown in customer's drawing.
(Note 2) 2000 V AC for contact No. 1, 16, 17, 32. 500 V AC for others

Unless otherwise specified, refer to IEC 60512.

APPROVED	TU.TANIGUCHI	20181127
CHECKED	TU.TANIGUCHI	20181127
DESIGNED	TS.ITO	20181127
DRAWN	SJ.SATO	20181127

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

DRAWING NO. ELC-025300-21-00

HRS	SPECIFICATION SHEET	PART NO.	QR/P4-32S-C(21)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL221-0154-1-21 ⚠0	1/1

FORM HD0011-2-1