

APPLICABLE STANDARD					
Rating	Operating Temperature Range	- 10 °C to +60 °C	Storage Temperature Range	- °C to - °C	
	Voltage	30 V	Operating Humidity Range	- % to - %	
	Current	1 A	Applicable Wire	-	
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	Measured at 100 mA max (DC or 1000 Hz).		50 mΩ max.	X	X
Insulation Resistance	500 V DC		1000 MΩ min.	X	X
Voltage Proof	500 V AC. for 1 min.		No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS					
Mating and Unmating Forces	Measured with an applicable connector.		Mating force : 4 N min. Unmating force : 40 N max.	X	—
Mechanical Operation	Mated and unmated 1000 times.		① Contact resistance : 60 mΩ max. ② No damage, crack and looseness of parts.	X	—
Vibration	Frequency : 10 to 55 Hz, single amplitude 0.75 mm, at 2h for 3 axial directions.		① No electrical discontinuity of 10 μs min. ② No damage, crack and looseness of parts.	X	—
Shock	490 m/s <sup>2</sup> 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 → 5 max → 30 → 5 max min Under 5 cycles.		① Contact resistance : 60 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Humidity Life	Exposed at 40 °C, 90 to 95 %, 96 h.		① Contact resistance : 60 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Hydrogen Sulphide	Exposed in 3 ppm, 96 h.		① Contact resistance : 60 mΩ max. ② No heavy corrosion which impairs functionality.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK			APPROVED	RI. TAKAYASU	18.05.31
			CHECKED	KI. NAGANUMA	18.05.30
			DESIGNED	JY. IGA	18.05.30
Unless otherwise specified, refer to IEC 60512.			DRAWN	JY. IGA	18.05.30
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-120810-50-03		
	SPECIFICATION SHEET		PART NO.	QR/P15-40S (50)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL221-0253-3-50	1/1