

APPLICABLE STANDARD					
Rating	Operating Temperature Range	−55 °C to 85 °C (Note 1)	Storage Temperature Range	−55 °C to 60 °C (Note 2)	
	Voltage	300 V AC , 420 V DC	Operating Humidity Range	95 % MAX.	
	Current	3 A	Applicable Cable	—	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	
QT		AT			
CONSTRUCTION					
General Examination		Visually and by measuring instrument.		According to drawing.	
Marking		Confirmed visually.			
ELECTRIC CHARACTERISTICS					
Contact Resistance		Measured at 1 A (DC or 1000 Hz).		10 mΩ MAX.	
Contact Resistance		20 mV MAX.		×	
Millivolt Level Method		1 mA (DC or 1000Hz).		—	
Insulation Resistance		500 V DC.		1000 MΩ MIN.	
Voltage Proof		1000 V AC. for 1 min.		No flashover or breakdown.	
MECHANICAL CHARACTERISTICS					
Mating and Unmating Forces		Measured with an applicable connector.		Mating force : 161 N MAX. Unmating force : 161 N MAX.	
Mechanical Operation		Mated and unmated 1000 times.		1) Contact resistance : 15 mΩ MAX. 2) No damage, crack and looseness of parts.	
Vibration		Frequency : 10 to 55 Hz, single amplitude 0.75 mm, at 2 h each in 3 axial directions.		1) No electrical discontinuity of 10 μ s. 2) No damage, crack and looseness of parts.	
Shock		490 m/s ² duration of pulse 11 ms for 3 times in 6 directions.			
ENVIRONMENTAL CHARACTERISTICS					
Rapid Change of Temperature		Temperature -65 → 5 to 35 → 125 → 5 to 35 °C Time 30 → 2 to 3 → 30 → 2 to 3 min. Under 5 cycles.		No damage, crack and looseness of parts.	
Damp Heat (Steady state)		Exposed at 25 to 65 °C , 90 to 98 % , 240 h.		1) Insulation resistance : 1000 MΩ MIN. (At dry) 10 MΩ MIN. (At high humidity) 2) No damage, crack and looseness of parts.	
Corrosion Salt Mist		Exposed in 5 % salt water spray for 48 h.		No heavy corrosion that lose function.	
(Note 1) 1) The product performance is guaranteed only in the temperature adequate people's activities. 2) 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
①					
REMARK			APPROVED	KI. NAGANUMA	18.05.30
			CHECKED	KI. NAGANUMA	18.05.30
			DESIGNED	TA. TORIHARA	18.05.30
Unless otherwise specified, refer to IEC 60512.			DRAWN	TA. TORIHARA	18.05.30
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-008158-50-05
HRS	SPECIFICATION SHEET		PART NO.	PR-1660BA-ST A (50)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL216-0453-7-50	△ 1/1