	Operating Temperature Range		Note. 1 -40°C to +105°C	Stor Temp	age perature Range	Note. 2 -55°C to +85°C		
Rating	Voltage		AC 600 V , DC 600 V	1	_	_		
	Current		AWG#16(UL1015) 20pos. : 6 A Appl		olicable Cable I		to AWG#18 L1007 , UL1015)	
	1		SPECIFICAT	FION:	S	,		
	ГЕМ		TEST METHOD			UIREMENTS	QT	AT
CONSTRU			1201 M211105		1,123	ONCENTERVIO	١ ٠.	7
General Exami	ination	Visually	and by measuring instrument.				Х	Х
Marking		Confirmed			According to drawing.		Х	Х
ELECTRIC	AL CHARAC				l		1	1
0++ D:		1100 mA (DC or 1000 Hz) max.			Note. 3 10 mΩ max. (Contact spacing)	Х	-
Contact Resis	stance				Note. 3 50 m Ω max. (Shell spacing)	Х	-
Insulation Re	esistance	500 V DC.	500 V DC.				Х	-
Voltage Proot	f	2200 V AC	. for 1 min.		No flashover or brea	akdown.	Х	-
MECHANIC	CAL CHARAC	CTERIST	ICS					
Contact Inse	rtion and				Insertion force : 3	3 N max.	Х	_
Withdrawal Fo	orces	Appricable contact.		Withdrawal force :	1 N min.	^		
Connector Ins	sertion and				Insertion force : 9	98 N max.	X	_
Withdrawal Fo	orces	Appricable connector.		Withdrawal force :	14.7 N min.			
Contact (Lance)		IPull a terminal by 49 N (1 min.) from terminal area.		1) Contacts should b	oe retained.	Х	_	
Retention Forces				2) No damage. Crack	and looseness of parts.			
Conductor Pressure Bonding Forces		Iforce shall exceed the specification when pull force			II) AWG#16 : 147 N min.			-
Cable Clamp Strength		Apply pul	II force of 98 N in mating direction	Contacts should be retained. No damage. Crack and looseness of parts.			-	
Mechanical Operation		500 times	insertions and extractions.	Note. 3 1) Change in contact resistance of contacts: 20 mΩ max. 2) No damage. Crack and looseness of parts.			-	
Vibration		lat 2 h. for 3 directions.			1) No electrical dis	electrical discontinuity of 10 μs. damage. Crack and looseness of parts.		
Shock		In opposite directions of each 6 dimension axis for			 No electrical discontinuity of 10 μs. No damage. Crack and looseness of parts. 			-

	COUNT	DESCRIPTION OF REVISIONS DESIGNED			CHECKED		DATE			
0										
REMARK				APPRO	APPROVED NM. NISHIMATSU		17.	17. 01. 25		
Above spesification shows the values in assembled condition with applicable crimp contacts.				CHECKED		NM. NISHIMATSU	17. 01. 25			
Unless otherwise specified, refer to IEC 60512.				DESIGNED		MO. SHIMOYAMA		17. 01. 25		
	,					AWN JY. IGA		17.	17. 01. 25	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWIN	IG NO.		ELC4-127024-01				
L	RS	SPECIFICATION SHEET		PART NO.	PQ50-20S (01)				·	
11.0		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL236-2014-2-01		\triangle	1/3		

	SPECIFICATION	S		
ITEM TEST METHOD		REQUIREMENTS		АТ
ENVIRONMENTAL CHA	RACTERISTICS			
Rapid Change of Temperature	Temperature -55 \rightarrow 15 to 35 \rightarrow 105 \rightarrow 15 to 35 °C Time 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 min. Under 5 cycles.	Note.3 1) Change in contact resistance of contacts : 20 mΩ max. 2) No damage. Crack and looseness of parts.	х	-
Heat Resistance	Exposed at 105 °C \pm 2 °C, 96 h, and combine the applicable connectors.	Note.3 1) Change in contact resistance of contacts : 20 mΩ max. 2) Insulation resistance : 1000 MΩ min. 3) No damage. Crack and looseness of parts.	Х	-
Cold Resistance	Exposed at -55 °C \pm 2 °C, 96 h, and combine the applicable connectors.	 Note. 3 1) Change in contact resistance of contacts: 20 mΩ max. 2) Insulation resistance: 1000 MΩ min. (After it drier) 3) No damage. Crack and looseness of parts. 	х	-
Humidity	Exposed at 60 °C \pm 2 °C, 90 to 95 %, 96 h, and combine the applicable connectors.	Note. 3 1) Change in contact resistance of contacts : 20 mΩ max. 2) Insulation resistance : 1000 MΩ min. 3) No damage. Crack and looseness of parts.	х	-
Mixed Flowing Gus	Exposed in SO_2 10 ppm, H_2S 3 ppm, 70 to 80 %, 24 h, and combine the applicable connectors.	No heavy corrosion ruin the function.	х	-
Corrosion Salt Mist	Exposed in 5 % Salt water spray for 48 h, and combine the applicable connectors.	No heavy corrosion ruin the function.	Х	-

Note.1 1) The product performance is guaranteed only in the temperature adequate people's activities.

- 2) Include temperature rise caused by current-carrying.
- 3) Specifications for assembled item with applicable housing.

Note.2 Packing materials are not included.

Note.3 Cable conductor resistance is not included.

Note QT:C	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC4-127024-01		
HS.	SPECIFICATION SHEET	PART NO.	PQ50-20S (01)			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236	5-2014-2-01	\triangle	2/3

