Applicable S	Standard										
	Operating		Note. 1 -55°C to +105°C		Stor	_	Ь		Note. 2 -55°C to +85°C		
	Temperature Range Voltage		AC 600 V , DC 600 V (only o		Temp	erature —	ture Range		_		
Rating	Current		AC 300 V , DC 300 V (TUV·UL) PQ50 (A) contact: 19.0A/pin (AWG#14) PQ50S (A) contact: 12.5A/pin (AWG#16 UL1007) 12.5A/pin (AWG#18 UL1007) Conduct specified current to a single pin of contacts.		oplicable Cable			PQ50WA/S-10*/34*-UNIT AWG#14 to AWG#22 (only 10pi (UL-STYLE:UL1007, UL101 Others AWG#16 to AWG#28 (UL-STYLE:UL1007)			
			SPEC	CIFICATI	ONS	S					
	EM		TEST METHOD				F	REQ	UIREMENTS	QT	АТ
CONSTRU General Exami		Vioually	and by magazing instrument							Х	X
	пастоп	-	Visually and by measuring instrument.			Accordi	ng to dra	awing		X	X
Marking	AL CHADAC		visually.							^	
ELECTRICA	AL CHARAC	TERISTI	CS			Note	2 5 mO i	mav	(contact spacing)	Х	Τ-
Contact Resis	tance	100 mA (D	100 mA (DC or 1000 Hz) max.						(shell spacing)	Х	-
Insulation Re	sistance	500 V DC.				5000 MΩ			(chorr spacing)	Х	-
Voltage Proof		3310 V AC	. for 1 min.			No flas	hover or	brea	kdown.	Х	-
Temperature R		below co PQ50 (A) (AWG#14 Current PQ50S (A) (AWG#18 Current	contact ⇔ PQ50(A) contact UL1015) (AWG#14 UL10 carried:19A/pin contact ⇔ PQ50S(A) cont UL1007) (AWG#18 UL10 carried:12.5A/pin	et 015) cact			C increas	se fr	om ambient temperature.	X	-
MECHANIC	CAL CHARAC	CTERIST	TICS								
Œ		① PQ50				① Insertion force: 3.0 N max. Withdrawal force: 1.0 N min. ② Insertion force: 3.0 N max. Withdrawal force: 0.3 N min.			х	-	
Withdrawal Forces		(all cont	e with the look lever released ontacts are assembled) units of PQ50WA/S-10*/34*-UNIT and PQ50WASX-46*-UNIT.			Insertion force : 270 N max. Withdrawal force : 34 N min.			х	-	
Retention Forces r: tl		rate of 2 the force ① PQ50(A	ial pull out force at the speed 25mm/min to the terminal, and measure e when the terminal is pull out. A) -15P(S)CFA(AWG#14) (A) -1822P(S)CFA(AWG#18)			① 68.6N min. ② 29.4N min.			x	-	
	1	SCRIPTI	ON OF REVISIONS	D	ESIG	SNED			CHECKED	DA	TE
COUN	T DE										
<u> </u>	T DE						V DDD C	\/ _ _	NM NICHIMATON	17 4	1 01
/0\ REMARK		alues in asse	embled condition with "PQ50WA" s	series.			APPRO			17.1	
REMARK Above spesifica	tion shows the va		embled condition with "PQ50WA" s				CHECK	KED	NM. NISHIMATSU	17. 1	1. 21
REMARK Above spesifica	tion shows the va	of connector	r,the specification is based on eacl					KED NED		17. 1 17. 1	1. 21 1. 21
REMARK Above spesifica in case of using Juless otherw	tion shows the va for other series ise specified,	of connector	r,the specification is based on eacl	h series.	DF	RAWIN	CHECK DESIGN DRAW	KED NED	NM. NISHIMATSU MO. SHIMOYAMA MO. SHIMOYAMA	17. 1 17. 1 17. 1	1. 21 1. 21 1. 21
REMARK Above spesifica In case of using Unless otherw	tion shows the varies for other series ise specified, ualification Tes	of connector refer to s	r,the specification is based on eacl IEC 60512.	est	DF		CHECK DESIGN DRAV G NO.	KED NED VN	NM. NISHIMATSU MO. SHIMOYAMA	17. 1 17. 1 17. 1 0-00	1. 21 1. 21 1. 21

	SPECIFICATION	S		
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHA	ARACTERISTICS			
Conductor Pressure Bonding Forces	Crimp the cable only at the conductor, and retention force shall exceed the specification when pull force is applied. ①P050A - 15P(S)CFA (AWG#14 UL1015) ②P050S(A)-1618P(S)CFA (AWG#16 UL1007) ③P050S(A)-1822P(S)CFA (AWG#18 UL1007)		Х	-
	Apply 98 N pull force for 1 minutes to the plug in			
Lock Strength	mating axial direction with locked condition.	No damage, crack and looseness of parts.	Х	-
Lever Operation Force	Measure the lever operation force for lock/unlock.	Lock : 147 N max. Unlock : 147 N max.	Х	-
Cable Clamp Strength	Apply pull force of 98N in mating direction for a minute.	② No damage, crack and looseness of parts.	Х	-
Mechanical Operation	100 times insertions and extractions.	Note. 3 ① Change in contact resistance of contacts: 20 mΩ max. ② No damage, crack and looseness of parts.	X	I
Vibration	Frequency: 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions. (reference for appended figure 2)	① No electrical discontinuity of 10 μs. ② No damage, crack and looseness of parts.	Х	-
Shock	In opposite directions of each 6 dimension axis for 3 times at 490 m/s 2 durations of pulse 11 ms.	① No electrical discontinuity of 10 μs. ② No damage, crack and looseness of parts.	Х	ı
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.	Χ	-
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 3 °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	-
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. (after it drier) ③ No damage, crack and looseness of parts.	Х	-
Mixed Flowing Gus	Exposed in $\mathrm{SO_2}$ 10 ppm, $\mathrm{H_2S}$ 3 ppm, 70 to 80 %, 24 h, and combine the applicable connectors.	No heavy corrosion ruin the function.	Х	1
Dust/Splash Protection	Follow IEC60529 tests and combine the applicable connectors.	IP65(IEC60529) min protected to avoid dust intrusion. No harmful effect from direct water splash from any directions.	Х	-

REMARK

- "A" in parenthesis PQ50(A) and PQ50S(A) indicates sequential contacts, PQ50A and PQ50SA.
- 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:Qu	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC-129062-10-00			
HRS	SPECIFICATION SHEET	PART NO.	PQ50WASX-46P-UNIT(10)		(10)		
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236	5-2088-0-10	\triangle	2/3	

APPENDED FIGURE Appended figure 1. lever operation force Lock KS Appended figure 2. vibration test method diagram(side view). Z direction Test direction X direction Y direction Receptacle Plug 75 Test panel Clamp panel (t=3.2mm) Spacer for cable fixing ELC-129062-10-00 QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. PQ50WASX-46P-UNIT (10) PART NO. SPECIFICATION SHEET \triangle CL236-2088-0-10 3/3 HIROSE ELECTRIC CO., LTD. CODE NO

FORM HD0011-2-2