//// =/=, -	BLE STANDA				STORAGE						
	TEMPERATURE RANGE		1> -40°C TO +105°C	С	TEMPERATU	RE RANGE		2> -55°C TO +85°C			
RATING	VOLTAGE		300 V AC , 300 V	DC				_			
	CURRENT		AWG#18(UL1007) : 12.5	AWG#18(UL1007) : 12.5 A/PIN APPL		CABLE CABLE		AWG#18 TO AWG#2 (UL-STYLE : UL10			
			SPEC	IFICA	TIONS						
I	TEM		TEST METHOD			R	EQUI	REMENTS	QT	A	
CONSTRU	JCTION	-					_		- -		
GENERAL EXAM	INATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCOR	ACCORDING TO DRAWING.			X	X	
		CONFIRMED VISUALLY.				X				>	
	CAL CHARAC						(00)		Х	-	
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz) MAX.				$3$ > 5 m $\Omega$ MAX. (CONTACT SPACING) 3 > 40 m $\Omega$ MAX. (SHELL SPACING)			X	-	
NSULATION R	ESISTANCE	500 V DC				M $\Omega$ MIN. (SHELL SPACING)				-	
OLTAGE PROOF		500 V DC. 2200 V AC. FOR 1 min.							Х	-	
/ECHANI	CAL CHARA								1		
ONTACT INSE	RTION AND				INSER	TION FORCE	: 3	N MAX.	х		
WITHDRAWAL FORCES		APPRICABLE CONTACT.			WITHD	HDRAWAL FORCE : 0.3 N MIN.				Ľ	
ONNECTOR IN	SERTION AND	APPRICABL	E CONNECTOR.		INSER	TION FORCE	ON FORCE : 98 N MAX.				
ITHDRAWAL F	ORCES				WITHD	RAWAL FORCE	: 14.	7 N MIN.		<u> </u>	
ONTACT (LANCI	E)		AL PULL OUT FORCE AT THE SPEE						x		
ETENTION FO	RCES		5mm/min TO THE TERMINAL, AND		29. 4N	). 4N MIN			^	-	
			THE FORCE WHEN THE TERMINAL IS PULL OUT. CRIMP THE CABLE ONLY AT THE CONDUCTOR, AND RETENTION			3#18 : 89	N MI	N			
	ESSURE BONDING	FORCE SHALL EXCEED THE SPECIFICATION WHEN PULL FORCE IS			-				х	-	
FORCES		APPL IED.			3 AW	③ AWG#22 : 35.6 N MIN.					
CABLE CLAMP STRENGTH		APPLY PULL FORCE OF 98 N IN MATING DIRECTION FOR A			N FOR A ① COI	NTACTS SHOUL	.D BE	RETAINED.	x		
		MINUTE.				NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
					3	3 ) T CHANGE IN CONTACT RESISTANCE OF			x		
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.			() NO	CONTACTS : 10 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				-	
		FREQUENCY	· 10 TO 55 Hz SINGE AMPLITU	IDF 0 75 m	0	DAMAGE. UKA	NUK AN	D LOUSENESS OF PARTS.			
VIBRATION		FREQUENCY : 10 TO 55 Hz, SINGE AMPLITUDE 0.75 mm, AT 2 h. FOR 3 DIRECTIONS.			(1) NO	(1) NO ELECTRICAL DISCONTINUITY OF 10 $\mu$ s.			х	-	
		(REFERENC	(REFERENCE FOR APPENDED FIGURE)			② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
SHOCK		IN OPPOSITE DIRECTIONS OF EACH 6 DIMENSION AXIS FOR			S FOR ① NO	$\textcircled{1}$ NO ELECTRICAL DISCONTINUITY OF 10 $\mu s.$ X				_	
SHOCK		3 TIMES AT 490 m/s <sup>2</sup> DURACTIONS OF PULSE 11 ms.			<li>2 NO</li>	DAMAGE. CRA	ACK AN	D LOOSENESS OF PARTS.	~		
	NT D	ESCRIPTI	TION OF REVISIONS DESIG		DESIGNED			CHECKED	DA	TE	
REMARK	I					APPRO	/ED	MN. KENJO	2021	122	
ABOVE SPECIFICATION SHOWS THE VAL			VALUES IN ASSEMBLED CON	LUES IN ASSEMBLED CONDITION WITH		CHECKEI		KG. OKITA	2021		
APPLICABLE CRIMP CONTACTS			CTS.			DESIGNED				122	
Unless otherwise specified, refer to IEC 60512.				DRAW	'N	HY. MATSUDA	2021	122			
			surance Test X:Applicable Te	est		NG NO.		ELC-397154-0			
									5 00	<u> </u>	

PART NO.

CODE NO.

PQ50SA2-1822PCFA

CL0236-0034-0-00

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hrs

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

	SPECIFICATION	S		
ITEM	TEST METHOD	REQUIREMENTS		AT
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.	<ul> <li>3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX.</li> <li>② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-
HEAT RESISTANCE	EXPOSED AT 105 °C $\pm$ 2 °C, 96 h, AND COMBINE THE APPLICABLE CONNECTORS.	<ul> <li>③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX.</li> <li>② INSULATION RESISTANCE : 1000 MΩ MIN.</li> <li>③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-
COLD RESISTANCE	EXPOSED AT $-55$ °C $\pm$ 3 °C, 96 h, AND COMBINE THE APPLICABLE CONNECTORS.	<ul> <li>3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX.</li> <li>② INSULATION RESISTANCE : 1000 MΩ MIN.</li> <li>③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-
HUMIDITY	EXPOSED AT 60 °C $\pm$ 2 °C, 90 TO 95 %, 96 h, AND COMBINE THE APPLICABLE CONNECTORS.	<ul> <li>③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX.</li> <li>② INSULATION RESISTANCE : 1000 MΩ MIN. (AFTER IT DRIER)</li> <li>③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-
MIXED FLOWING GAS	EXPOSED IN SO2 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	-

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.

2 PACKING MATERIALS ARE NOT INCLUDED.

3 CABLE CONDUCTOR RESISTANCE IS NOT INCLUDED.

Note QT:0	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-397154-00-00		
RS	SPECIFICATION SHEET	PART NO.	PQ50SA2-1822PCFA			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0034-0-00		2/3

