APPLICAE	BLE STANDA	RD								
OPERATING TEMPERATURE RANG		RANGE	1> -40°C TO +105°C		ORAGE MPERATURE	RANGE	2> -55°C TO +8	35°C		
RATING	VOLTAGE	TOTAL	300 V AC , 300 V DC	10.		-	_			
CURRENT				AWG#18 (UL1007) : 12.5 A/PIN APPLICABLE CABLE			AWG#18 TO AWG			
			SPECIFI		JS		(UL-STILL : UL	1007)		
l-	TEM		TEST METHOD	<u>OATIOI</u>	10	DE(QUIREMENTS	QT	AT	
CONSTRU		1	TEOT WILTHOD			IXEX	QUINEINEIVIO	Q I	AI	
GENERAL EXAM		VISUALLY	AND BY MEASURING INSTRUMENT.					Х	Х	
MARKING			VISUALLY.		ACCORD I	NG TO DRAWIN	NG.	Х	Х	
	CAL CHARAC								1	
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz) MAX.			3	5 mΩ MAX. (CONTACT SPACING) 40 mΩ MAX. (SHELL SPACING)			-	
INSULATION R	ESISTANCE	500 V DC.			5000 MΩ				-	
VOLTAGE PROOF		+	. FOR 1 min.		NO FLAS	HOVER OR BRE	EAKDOWN.	Х	-	
MECHANI	CAL CHARA	CTERIST	TICS							
CONTACT INSE	RTION AND	ADDDIOADI	E CONTACT		INSERTI	ON FORCE :	3 N MAX.	Х		
WITHDRAWAL F	ORCES	APPRICABL	E CONTACT.		WITHDRA	THDRAWAL FORCE : 0.3 N MIN.				
CONNECTOR IN	SERTION AND	ADDDICARI	E CONNECTOR.		INSERTI	ON FORCE :	98 N MAX.	X	l _	
WITHDRAWAL F	ORCES	APPRIGADL	E CONNECTOR.		WITHDRA	WAL FORCE :	14.7 N MIN.	^		
CONTACT (LANC		RATE OF 2	PPLY AXIAL PULL OUT FORCE AT THE SPEED ATE OF 25mm/min TO THE TERMINAL, AND MEASURE			IN		×	-	
			WHEN THE TERMINAL IS PULL OUT.	ND DETENTIO	N A AWO#	10 . 00 1	u MTN	_		
CONDUCTOR PR	ESSURE BONDING		E CABLE ONLY AT THE CONDUCTOR, A LL EXCEED THE SPECIFICATION WHEN P		_			X	l _	
FORCES		APPLIED.	LL EXOLED THE SPECIFICATION WHEN P	OLL FUNGE I	_	3) AWG#22 : 35.6 N MIN.				
		+	L FORCE OF 98 N IN MATING DIRE	CTION FOR	-					
CABLE CLAMP	STRENGTH	MINUTE.	LE FORGE OF 90 N IN MATING DIRE	OTTON TON	_	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				
		minore.			_		N CONTACT RESISTANCE OF			
MECHANICAL O	PERATION	500 TIMES INSERTIONS AND EXTRACTIONS.					: 10 mΩ MAX.	Х	-	
					② NO D		K AND LOOSENESS OF PARTS.			
		FREQUENCY	: 10 TO 55 Hz, SINGE AMPLITUDE 0	. 75 mm,	- · · · -					
VIBRATION		AT 2 h, F	AT 2 h. FOR 3 DIRECTIONS.				ISCONTINUITY OF 10 μs.	Х	-	
		(REFERENC	E FOR APPENDED FIGURE)		(2) NO D	AMAGE. CRACK	(AND LOOSENESS OF PARTS.			
CHUCK		IN OPPOSI	TE DIRECTIONS OF EACH 6 DIMENSION	AXIS FOR	① NO E	① NO ELECTRICAL DISCONTINUITY OF 10 μs.				
SH0CK		3 TIMES A	T 490 m/s ² DURACTIONS OF PULSE 11	ms.	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.			Х		
COUN	NT DE	ESCRIPTI	ON OF REVISIONS	DES	IGNED		CHECKED	D/	ATE	
A							- · -	 		
REMARK				APPROVE	MN. KENJO	2021	11222			
ABOVE SPECIFICATION SHOWS THE V APPLICABLE CRIMP CONTACTS.			VALUES IN ASSEMBLED CONDITION WITH			CHECKE			11221	
						DESIGNE			11221	
Unless otherwise specified, ref			efer to IEC 60512			DRAWN			11221	
			surance Test X:Applicable Test	[DRAWING NO. ELC-397380-00					
שכ	S	PECIFI	ICATION SHEET PART				PQ50S2-1822PCA	\		
		OSE F	LECTRIC CO., LTD. CODE			CL 0236-0046-0-00 A 1/				

	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.	3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	x	-
HEAT RESISTANCE	EXPOSED AT 105 °C \pm 2 °C, 96 h, AND COMBINE THE APPLICABLE CONNECTORS.	3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS: 10 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	х	-
COLD RESISTANCE	EXPOSED AT $-55~^{\circ}\text{C}~\pm~3~^{\circ}\text{C},~96~\text{h},~\text{AND}~\text{COMBINE}$ THE APPLICABLE CONNECTORS.	3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS: 10 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.	CHANGE IN CONTACT RESISTANCE OF CONTACTS: 10 mΩ MAX. INSULATION RESISTANCE: 1000 MΩ MIN. (AFTER IT DRIER) NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	х	-
MIXED FLOWING GAS	EXPOSED IN SO $_2$ 10 ppm, H $_2$ S 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	-

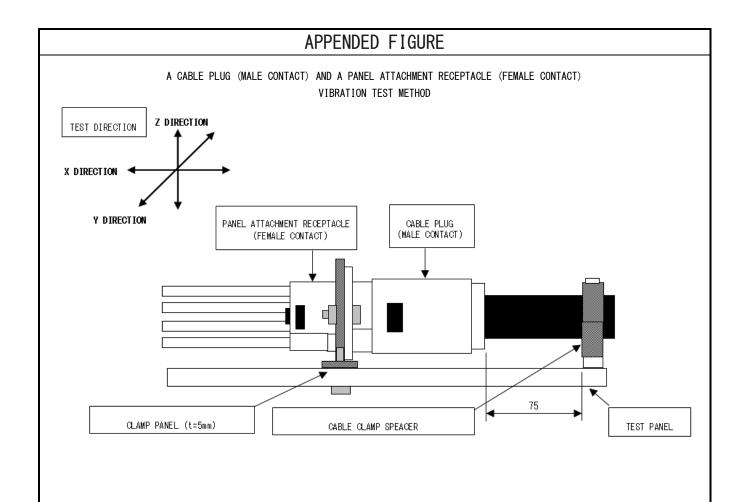
2 PACKING MATERIALS ARE NOT INCLUDED.

3 CABLE CONDUCTOR RESISTANCE IS NOT INCLUDED.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-397380-00-00		
HS	SPECIFICATION SHEET	PART NO.	PQ50S2-1822PCA			
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0046-0-00	Δ	2/3

 $[{]f 2}$ INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.

³ SPECIFICATIONS FOR ASSEMBLED ITEM WITH APPLICABLE HOUSING.



Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-397380-00-00		
HS	SPECIFICATION SHEET	PART NO.	PQ50S2-1822PCA			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0046-0-00	Δ	3/3