APPLICAE	BLE STANDA	RD									
OPERATING TEMPERATURE RANGE		1> -40°C TO +105°C		STORAGE TEMPERATURE	RANGE		2> -55°C TO +8	35°C			
RATING	VOLTAGE		300 V AC , 300 V DC		_	-		_			
	CURRENT		AWG#18(UL1007) : 12.5 A	7): 12:5 A/PIN TAPPLICABLE CABLE T			AWG#18 TO AWG (UL-STYLE : UL				
			SPECIF	FICATI	ONS						
ITEM			TEST METHOD			RE	QUIRE	MENTS	QT	АТ	
CONSTRU	JCTION										
GENERAL EXAM	INATION	VISUALLY	AND BY MEASURING INSTRUMENT.						Х	Х	
MARKING		CONFIRMED	WEIRMED VISUALLY.			NG TO DRAWI	NG.		Х	Х	
ELECTRIC	CAL CHARAC	TERISTI	CS						•		
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz) MAX.			=	> 5 mΩ MAX. (CONTACT SPACING) > 40 mΩ MAX. (SHELL SPACING)			X	-	
INSULATION R	ESISTANCE	500 V DC.			5000 MΩ				Х	† -	
VOLTAGE PROC			. FOR 1 min.		NO FLASH	HOVER OR BR	EAKDOWN.		Х	† -	
MECHANI	CAL CHARA	l .									
CONTACT INSE	RTION AND				INSERTIO	ON FORCE :	3 N N	IAX.	X	T	
WITHDRAWAL F	ORCES	APPRICABLE CONTACT.				RAWAL FORCE : 0.3 N MIN.					
CONNECTOR IN	SERTION AND				INSERTIO	TON FORCE : 98 N MAX					
WITHDRAWAL F	ORCES	APPRICABL	E CONNECTOR.		WITHDRAV	NAL FORCE :	14.7 N	MIN.	Х	-	
CONTACT (LANC		RATE OF 2	APPLY AXIAL PULL OUT FORCE AT THE SPEED			IN			х	-	
			WHEN THE TERMINAL IS PULL OUT.	AND DETER	NT LON (1) AWC#1	10 . 00	N MIN			+	
CONDUCTOR PR	ESSURE BONDING		E CABLE ONLY AT THE CONDUCTOR, LL EXCEED THE SPECIFICATION WHEN		_				Х	_	
FORCES		APPLIED.	LE EXOLED THE SI EOTI TOATTON WHEN	N TOLL TON	_	3) AWG#22 : 35.6 N MIN.					
						CONTACTS SHOULD BE RETAINED					
CABLE CLAMP	STRENGTH	MINUTE.				NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
		MINOTE.			_			OT RESISTANCE OF		+	
MECHANICAL C	PERATION	500 TIMES	500 TIMES INSERTIONS AND EXTRACTIONS.			CONTACTS : 10 mΩ MAX.				-	
INCOMPANIE O	Liverion	000 1111120	THOERTIONS AND EXTINOTIONS.		② NO DA			OSENESS OF PARTS.			
		FREQUENCY	: 10 TO 55 Hz. SINGE AMPLITUDE	0 75 mm	<u> </u>					+	
VIBRATION			AT 2 h. FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				-	
		1									
		IN OPPOSI	·			① NO ELECTRICAL DISCONTINUITY OF 10 μs.					
SHOCK		3 TIMES A	T 490 m/s ² DURACTIONS OF PULSE 1	11 ms.	② NO DA	AMAGE. CRAC	K AND LO	OSENESS OF PARTS.	Х	-	
COU	NT DI	ESCRIPTI	ON OF REVISIONS	D	ESIGNED			CHECKED	DA	TE	
Δ											
REMARK				APPROVI	ΞD	MN. KENJO	2021	1222			
			VALUES IN ASSEMBLED CONDITION WITH		ГН	CHECKED		KG. OKITA	2021	1221	
APPLICABLE CRIMP CONTACTS.		ACTS.				DESIGNED		HY. MATSUDA	202112		
Unless otherwise specified, re			efer to IEC 60512.			DRAWN	1	HY. MATSUDA	2021	1221	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			t	DRAWIN	RAWING NO. ELC-397384-00						
HS.	S	PECIF	FICATION SHEET PART				PQS	50S2-1822SC <i>F</i>	\		
HIR		OSE E	ELECTRIC CO., LTD. CODE			CI O	236-0	36-0050-0-00 A 1/3			

	SPECIFICATION	S		
ITEM	TEST METHOD	REQUIREMENTS	QT	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.	3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS: 10 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. (AFTER IT DRIER) ③ 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	-

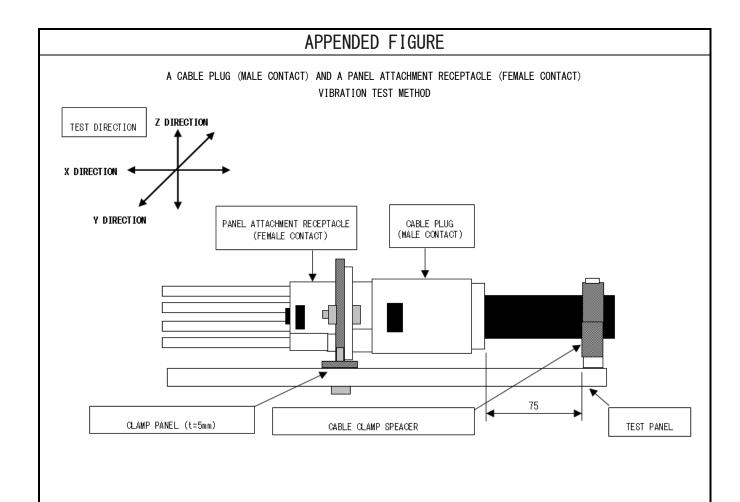
2 PACKING MATERIALS ARE NOT INCLUDED.

3 CABLE CONDUCTOR RESISTANCE IS NOT INCLUDED.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-397384-00-00			
HS.	SPECIFICATION SHEET	PART NO.	PQ50S2-1822SCA				
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0050-0-00	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-397384-00-00			
HS	SPECIFICATION SHEET		PQ50S2-1822SCA				
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0050-0-00	Δ	3/3	