APPLICAB	LE STANDAI	RD								
	OPERATING TEMPERATURE	RANGE	1 1 > -40°C TO +105°C		STORAGE TEMPERATUR	E RANGE	2> -55°C TO +85	i°C		
RATING	VOLTAGE		AC 300 V , DC 30	0 V	_	_	_			
	CURRENT		※ 5 A/PIN		APPLICABLE	CABI F	AWG#24 TO AWG			
OOMENT			**DEPEND ON CABLE' S ALLOWABLE CURRENT.				(UL-STYLE : UL1	007)		
			SPEC	CIFICATI	IONS					
IT	ITEM		TEST METHOD			REQUIREMENTS QT			AT	
CONSTRU	ICTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCOPD I	NG TO DRAWIN	ıc	X	Х	
MARKING		CONFIRMED	VISUALLY.		ACCONDI	NG TO DIVANTIN	lu.	Х	Х	
ELECTRIC	AL CHARAC	TERISTI	CS							
CONTACT RESIS	CONTACT RESISTANCE		100 mA (DC OR 1000 Hz) MAX.			> 5 m $\Omega$ MAX. (CONTACT SPACING) X > 40 m $\Omega$ MAX. (SHELL SPACING) X			-	
INSULATION RE	ESISTANCE	500 V DC.			5000 M S	V			<b>†</b> -	
VOLTAGE PROOF						FLASHOVER OR BREAKDOWN. X			-	
	CAL CHARAC				110 1 2.10					
CONTACT INSER	RTION AND	APPRICABLE CONTACT.				NSERTION FORCE : 3 N MAX.			T -	
CONNECTOR INS						THDRAWAL FORCE : 0.3 N MIN.				
WITHDRAWAL FO		APPRICABL	E CONNECTOR.			RTION FORCE : 98 N MAX.  DRAWAL FORCE : 14.7 N MIN.			-	
III IIIDIAIIAE I C	SKOLO	APPLY AYT	AL PULL OUT FORCE AT THE SPEE	FD.	חווטוות	IIIAL TOROL .	17. / IN MIN.	-	1	
CONTACT (LANCE	Ξ)		5mm/min TO THE TERMINAL, AND		29. 4N	MIN		X	_	
RETENTION FOR	RCES		WHEN THE TERMINAL IS PULL OF		20. 41					
			CABLE ONLY AT THE CONDUCTO		NTION (1) AWG#	24 : 22 3 N	I MTN		1	
	ESSURE BONDING	FORCE SHALL EXCEED THE SPECIFICATION WHEN PULL FORCE							-	
FORCES		IS APPLIE	D.		3 AWG#	AWG#28 : 8.9 N MIN.				
		APPLY PUL	APPLY PULL FORCE OF 98 N IN MATING DIRECTION FOR A MINUTE.			ACTS SHOULD	BE RETAINED.	Х -		
CABLE CLAMP S	STRENGTH	MINUTE.				IO DAMAGE. CRACK AND LOOSENESS OF PARTS.			-	
					3	① CHANGE	IN CONTACT RESISTANCE OF			
MECHANICAL OF	PERATION	500 TIMES INSERTIONS AND EXTRACTIONS.				CONTACTS : $10 \text{ m}\Omega$ MAX.			-	
					② NO D	AMAGE. CRACK	AND LOOSENESS OF PARTS.			
		IAT 2 h. FOR 3 DIRECTIONS.			<b>⊕ NO F</b>	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				
VIBRATION					_				-	
		(REFERENCE FOR APPENDED FIGURE)			2 NO D					
SHOCK					OR ① NO E	① NO ELECTRICAL DISCONTINUITY OF 10 $\mu$ s.			_	
OHOOK		3 TIMES AT 490 m/s <sup>2</sup> DURACTIONS OF PULSE 11 ms.			② NO D	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				
COUN	IT DE	DESCRIPTION OF REVISIONS		DESIGNED			CHECKED	DATE		
		DIS-A	A-00063387							
REMARK ABOVE SPESIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITI APPLICABLE CRIMP CONTACTS. Unless otherwise specified, refer to IEC 60512.					APPROVE	D MN. KENJO	20211	1224		
			LED COND	OITION WITH	CHECKE	O KG. OKITA	20211	1224		
						20211				
			efer to IEC 60512.			DESIGNE	D HY. MATSUDA			
						DRAWN	YK. MORIYAMA	20211224		
Note QT:Q	Note QT:Qualification Test AT:Assurance Test X:Applicable Tes			Гest				ELC-397159-00-00		
HS.			CATION SHEET		PART NO. PQ50S2-2428S		PQ50S2-2428SCF/	4		
	HIR	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL0236-0039-0-00			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 $^{\circ}$ C TIME 30 $\rightarrow$ 2 TO 3 $\rightarrow$ 30 $\rightarrow$ 2 TO 3 min. UNDER 5 CYCLES.	① CHANGE IN CONTACT RESISTANCE OF CONTACTS: 10 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.		Х	-
COLD RESISTANCE	EXPOSED AT $-55~^{\circ}\text{C}~\pm~3~^{\circ}\text{C}$ , 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	-
HUMIDITY	EXPOSED AT 60 $^{\circ}\text{C}~\pm~2~^{\circ}\text{C},~90$ 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 GUS	EXPOSED IN SO $_2$ 10 ppm, H $_2$ S 3 ppm, 70 TO 80 %, 24 h, AND COMBINE THE APPLICABLE CONNECTORS.	NO HEAVY CORROSIN RUIN THE FUNCTION.	Х	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h, AND COMBINE THE APPLICABLE CONNECTORS.	NO HEAVY CORROSIN RUIN THE FUNCTION.	х	-
② INCLUDE TEMPERATUR		OPLE'S ACTIVITIES.		

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-397159-00-00		
SH.	SPECIFICATION SHEET	PART NO.	PQ50S2-2428SCFA			
Л	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0039-0-00	<u> </u>	2/3

