APPLICAB	LE STANDAI	RD									
	OPERATING TEMPERATURE RANGE VOLTAGE		1 >-40°C TO +105°C		STORAGE TEMPERA	TORAGE EMPERATURE RANGE ——		2> -55°C TO +85°C	С		
RATING								_			
	CURRENT		AWG#16 • AWG#18 (UL1007) :12. 5 A/PIN APPL			PLICABLE CABLE AWG#16 TO AWG# (UL-STYLE : UL1					
			SPEC	CIFICAT	TIONS						
רו	ГЕМ		TEST METHOD				REQU	IREMENTS	QT	Α	
CONSTRU	CTION										
GENERAL EXAMI	NATION	VISUALLY	Y AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			Х	Х	
MARKING			IFIRMED VISUALLY.			ACCORDING TO DRAWING.			X	Х	
ELECTRIC	AL CHARAC	TERISTI	ISTICS								
CONTACT RESIS	STANCE	100 mA (D	100 mA (DC OR 1000 Hz) MAX.			3 5 mΩ MAX. (CONTACT SPACING) 3 40 mΩ MAX. (SHELL SPACING)			X	-	
INSULATION RE	ESISTANCE	500 V DC.			500	5000 MΩ MIN.			Х	-	
VOLTAGE PROOF	-	2200 V AC	AC. FOR 1 min.		NO	NO FLASHOVER OR BREAKDOWN.			Х	-	
MECHANIC	CAL CHARAC	TERIST	ICS		•				-		
CONTACT INSEF		APPRICABL	PPRICABLE CONTACT.			NSERTION FORCE : 3 N MAX.  ITHDRAWAL FORCE : 0.3 N MIN.				-	
CONNECTOR INS						INSERTION FORCE : 98 N MAX				+	
WITHDRAWAL FO	RCES	APPRICABL	E CONNECTOR.			WITHDRAWAL FORCE : 14.7 N MIN.				-	
CONTACT /LANCE	-\	APPLY AXI	AL PULL OUT FORCE AT THE SPEE	ED							
CONTACT (LANCE RETENTION FOR		RATE OF 2	5mm/min TO THE TERMINAL, AND	MESURE	29	29. 4N MIN X			-		
TETERITOR TO		<b>+</b>	WHEN THE TERMINAL IS PULL OF							_	
CONDUCTOR PRE	ESSURE BONDING		CABLE ONLY AT THE CONDUCTO		(1)	AWG#16 : 13	33. 5 N I	MIN.			
FORCES		FORCE SHALL EXCEED THE SPECIFICATION WHEN PULL FORCE			L FORCE	② AWG#18 : 89.0 N MIN.			X	-	
		IS APPLIE		DIDECTION	EOD A ①	CONTACTS SHO	NII N DE	DETAINED		+	
CABLE CLAMP S	STRENGTH	APPLY PULL FORCE OF 98 N IN MATING DIRECTION FOR A MINUTE.			_	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.			X	-	
		manore.			Ž	3 (1) CHANGE IN CONTACT RESISTANCE OF				+	
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.			2	CONTACTS : 10 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.			Х	-	
		FREQUENCY	: 10 TO 55 Hz, SINGE AMPLITU	JDE 0.75 mm	1.					+	
VIBRATION		AT 2 h, FOR 3 DIRECTIONS. (REFERENCE FOR APPENDED FIGURE)			_	① NO ELECTRICAL DISCONTINUITY OF 10 μs.			X	-	
					(2)	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
SHOCK		IN OPPOSI	IN OPPOSITE DIRECTIONS OF EACH 6 DIMENSION AXIS FOR			① NO ELECTRICAL DISCONTINUITY OF 10 $\mu$ s.			Х	_	
SHOOK	SHUCK		3 TIMES AT 490 m/s <sup>2</sup> DURACTIONS OF PULSE 11 ms.			② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
COUN	IT DE	SCRIPTI	ON OF REVISIONS	DESIG		SNED		CHECKED		DATE	
$\triangle$		DIS-A	A-00063387								
REMARK						APPRO	OVED	MN. KENJO	20211	2.2.4	
		THE VALUES IN ASSEMBLED CONDITION efer to IEC 60512.		IDITION V			-		20211224		
APPLICABLE CRIMP CONTACTS.							KG. OKITA				
Unless otherwise specified, re					DESIG		HY. MATSUDA	202112			
· ·					DRAV		YK. MORIYAMA	202112			
Note QT:Q	ualification Te	st AT:As	surance Test X:Applicable T	Test DF		RAWING NO.		ELC-397386-00-00			
lnc	SP	<u>ECIFIC</u>	ATION SHEET		PART N	ΓNO.		PQ50S2-1618SCA			
HS	HIR	HIROSE ELECTRIC CO., LTD.			CODE N	io. CL023		6-0052-0-00	$\Diamond$	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 $^{\circ}\text{C}$ 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.	х	-
HEAT RESISTANCE	EXPOSED AT 105 $^{\circ}\text{C}$ $\pm$ 2 $^{\circ}\text{C}$ , 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.	x	-
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 °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 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	-

- $\begin{tabular}{ll} (3) \textbf{ SPECIFICATIONS FOR ASSEMBLED ITEM WITH APPLICABLE HOUSING.} \\ \end{tabular}$
- 2 PACKING MATERIALS ARE NOT INCLUDED.
- 3 CABLE CONDUCTOR RESISTANCE IS NOT INCLUDED.

Note C	QT:Qı	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-397386-00-00		
we		SPECIFICATION SHEET	PART NO.	PQ50S2-1618SCA			
HS.	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0052-0-00	<u>^</u> 2/3		

