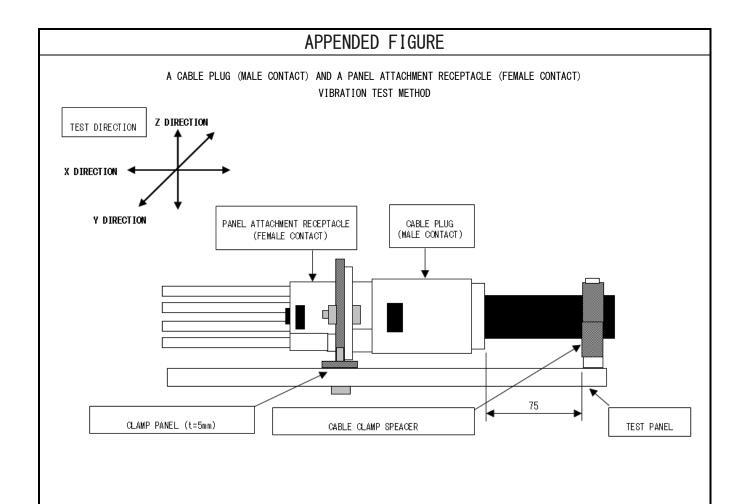
APPLICAB	BLE STANDAI	RD								
OPERATING TEMPERATURE RANGE		RANGE	1> -40°C TO +105°C	C	STORAGE TEMPERATUR	AGE ERATURE RANGE		2> -55°C TO +85°C		
	VOLTAGE		300 V AC , 300 V DC			_		_		
RATING			<b>※</b> 5 A / PIN							
	CURRENT		X Varies based on current-carrying capacity of cable.			ICABLE CABLE		AWG#24 TO AWG#28 (UL-STYLE : UL1007)		
				IFICAT	IONS					
1-	TEM		TEST METHOD			RF	=011	REMENTS	QT	AT
CONSTRU			TEOT METHOD			111	_ 00	KEMEITIO	Q.	731
GENERAL EXAM		VISUALLY	AND BY MEASURING INSTRUMENT.						Х	Х
MARKING			VISUALLY.		ACCORD	ACCORDING TO DRAWING.				Х
	CAL CHARAC	l								<u> </u>
					3	5 mΩ MAX.	(CO	NTACT SPACING)	Х	-
CONTACT RESIS	STANCE	100 mA (D	C OR 1000 Hz) MAX.		3	40 mΩ MAX.	(SH	ELL SPACING)	Х	-
INSULATION R	ESISTANCE	500 V DC.	500 V DC. §						Х	-
VOLTAGE PROOF	F	2200 V AC	. FOR 1 min.		NO FLA	SHOVER OR B	REAKD	OWN.	Х	-
MECHANI	CAL CHARAC	CTERIST	TICS		'					
CONTACT INSE	RTION AND		5 00UT10T		INSERT	ION FORCE	: 3	N MAX.		
WITHDRAWAL F	ORCES	APPRICABL	E CONTACT.		WITHDR	AWAL FORCE	: 0.3	N MIN.	Х	-
CONNECTOR IN	SERTION AND	ADDDIOADI	E CONNECTOR		INSERT	ION FORCE	: 98	N MAX.	Х	_
WITHDRAWAL FO	ORCES	APPRICABL	E CONNECTOR.		WITHDR.	AWAL FORCE	: 14.	7 N MIN.	^	
CONTACT (LANC	E)	APPLY AXI	AL PULL OUT FORCE AT THE SPEE	D						
RETENTION FOR		RATE OF 2	5mm/min TO THE TERMINAL, AND I	29. 4N	MIN			Х	-	
NETERITOR TO		THE FORCE	WHEN THE TERMINAL IS PULL OU	Т.						
CONDUCTOR PRI	ESSURE BONDING	CRIMP THE	CABLE ONLY AT THE CONDUCTOR	TENTION 1 AWG	#24 : 22.	3 N N	IIN.			
FORCES			LL EXCEED THE SPECIFICATION WH					X	-	
		APPL I ED.			3 AWG		9 N N			
CABLE CLAMP STRENGTH			LL FORCE OF 98 N IN MATING	DIRECTION	_	(2) NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				-
		MINUTE.							-	
MECHANICAL OF	MECHANICAL OPERATION 500 TIMES		TIMES INSERTIONS AND EXTRACTIONS.			3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX.				
MEGHANIGAL U	PERATION	200 IIWES	INSERTIONS AND EXTRACTIONS.	② NO	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
		FREGUENCY	: 10 TO 55 Hz, SINGE AMPLITU	DE Ω 75 mm		DAMAUL. UNA	ION AN	D LOUGLINESS OF TAINTS.		
VIBRATION			OR 3 DIRECTIONS.	DE 0. 75 IIIII	① NO	ELECTRICAL	DISCO	NTINUITY OF 10 μs.	Х	_
T I DIVITION			E FOR APPENDED FIGURE)	② NO	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
			TE DIRECTIONS OF EACH 6 DIMENS	SION AXIS	FOR ① NO	① NO ELECTRICAL DISCONTINUITY OF 10 μs.				
SH0CK		3 TIMES AT 490 m/s <sup>2</sup> DURACTIONS OF PULSE 11 ms.				② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				-
COUN	NT DE	SCRIPTI	ON OF REVISIONS		DESIGNED			CHECKED	DA	ATE
REMARK					APPROVED		MN. KENJO	-	11222	
		THE VALUES IN ASSEMBLED CONDITION WITH			CHECKE		KG. OKITA	-	11221	
APPLICABLE CRIMP CONTACTS.					DESIGNED		HY. MATSUDA	202112		
Unless ot	Unless otherwise specified, re		efer to IEC 60512.		DRAWN		HY. MATSUDA	202112		
Note QT:C	Qualification Tes	st AT:As	surance Test X:Applicable Te	est	DRAWI	NG NO.		ELC-397158-		0
<b>M</b> C	SI	PECIFI	CATION SHEET		PART NO.		F	Q50S2-2428PCF <i>A</i>	١	
		OSE E	LECTRIC CO., LTD.	CODE NO.	E NO. CL0236-0038-0-00			Δ	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	-

1	>(	) T	ΉE	PRODUCT	PERFORMANCE	IS	GUARANTEED	ONLY	IN	THE	TEMPERATURE	ADEQUATE	PEOPLE'S	ACTIVITIES
---	----	-----	----	---------	-------------	----	------------	------	----	-----	-------------	----------	----------	------------

- ${f 2}$  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:C	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-397158-00-00		
HS	SPECIFICATION SHEET	PART NO.	PQ50S2-2428PCFA			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0038-0-00	Δ	2/3



Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-397158-00-00		
RS SPECIFICATION SHEET		PART NO.	PQ50S2-2428PCF	-A		
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-0038-0-00	Δ	3/3