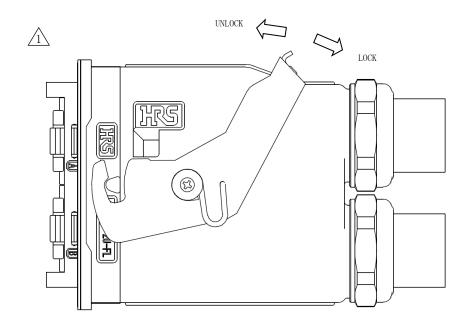
17.11 210	ABLE STAN				STOPAG	θF					
	TEMPERATUR	RE RANGE	RANGE		STORAGE TEMPERATURE RANGE			<u>2</u> > −55°C TO	+85°(	2	
	VOLTAGE		AC 600 V , DC 600 V (ONLY AC 300 V , DC 300 V (TUV-U	,				_			
RATING	CURRENT		PQ50 (A) CONTACT: 19. OA/PIN (AWG#14) PQ50S (A) CONTACT:		APPLIC	APPLICABLE CABLE			<ul> <li>PQ50WA/S-10*/34*-UNIT</li> <li>AWG#14 TO AWG#22 (ONLY 10PIN) (UL-STYLE:UL1007, UL1015)</li> <li>OTHERS</li> <li>AWG#16 TO AWG#28 (UL-STYLE:UL1007)</li> </ul>		
			SPEC	CIFICAT	IONS						
	TEM		TEST METHOD				F	REQU	IIREMENTS	QT	A
CONSTRU										- V	
GENERAL EXAM	INATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			X	>	
MARKING			CONFIRMED VISUALLY.								
ELECTRIC	CAL CHARA	ACTERIST	ICS							V	1
CONTACT RESI	STANCE	100 mA (D	100 mA (DC OR 1000 Hz) MAX.			$3$ 5 m $\Omega$ MAX. (CONTACT SPACING) $3$ 50 m $\Omega$ MAX. (SHELL SPACING)			,	X	
INSULATION R	ESISTANCE	500 V DC.				$3$ > 50 m $\Omega$ MAX. (SHELL SPACING) 5000 M $\Omega$ MIN.			IELL SPACING)	X	-
VOLTAGE PROO			3310 V AC. FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			DOWN	X	-
		BELOW CC PQ50 (A) (AWG#14 CURRENT PQ50S (A) (AWG#18	SPECIFIED CURRENT TO A         DNTACTS.         CONTACT ⇔ PQ50 (A) CONTAC         4 UL1015)       (AWG#14 UL10)         Γ CARRIED:19A/PIN         0 CONTACT ⇔ PQ50S (A) CONT         3 UL1007)       (AWG#18 UL10)         Γ CARRIED:12.5A/PIN	CT D15) Tact		ax. 30°C	C INCREA	SE FRO	M AMBIENT TEMPERATURE.	x	-
MECHANI	CAL CHAR	ACTERIST	TICS		I						1
CONTACT INSE WITHDRAWAL F		<ol> <li>PQ50</li> </ol>				<ul> <li>①INSERTION FORCE : 3.0 N MAX.</li> <li>WITHDRAWAL FORCE : 1.0 N MIN.</li> <li>②INSERTION FORCE : 3.0 N MAX.</li> <li>WITHDRAWAL FORCE : 0.3 N MIN.</li> </ul>			x	-	
CONNECTOR IN WITHDRAWAL F		(ALL CONT	MEASURE WITH THE LOOK LEVER RELEASED (ALL CONTACTS ARE ASSEMBLED) USE 2 UNITS OF PQ50WA/S-10*/34*-UNIT AND PQ50WASX-46*-UNIT.			INSERTION FORCE : 270 N MAX. WITHDRAWAL FORCE : 34 N MIN.			x		
CONTACT (LANC RETENTION FO		RATE OF 2 THE FORCE ① PQ50 (A	AL PULL OUT FORCE AT THE SPE 25mm/min TO THE TERMINAL, AND E WHEN THE TERMINAL IS PULL O A) -15P(S)CFA(AWG#14) (A) -1822P(S)CFA(AWG#18)	MESURE Z	1\	) 68.61 ) 29.41				x	
COUN	IT	DESCRIPTI	ON OF REVISIONS		DESIGN	IGNED C		CHECKED	DATE		
▲ 5		DIS-	-E-00004837	H	IY. MATSL	UDA			TU. TANIGUCHI	20210325	
REMARK									RI. TAKAYASU	2016053	
ABOVE SPESIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITION WITH "PQ50WA" 3 IN CASE OF USING FOR OTHER SERIES OF CONNECTOR,THE SPECIFICATION IS BASED ON						0			NM. NISHIMATSU	2016053	
EACH SERIES								NED	TY. MIURA		053
Unless otherwise specified, refer to IEC 60512.							DRAWN				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test							NG NO. ELC-129122-00 PQ50WA-2U-PC2		0-00	)	
UЛ			ICATION SHEET		PART NO.						
HIR		ROSE E	OSE ELECTRIC CO., LTD.		CODE NO.		CL0236-2092-0-00 / /				1/

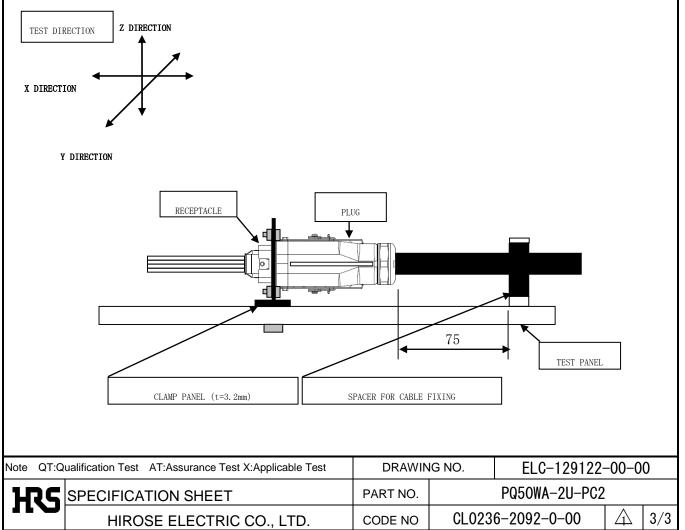
	SPECIFICA	TIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT		
ENVIRONMENTAL CHA					1		
CONDUCTOR PRESSURE BONDING FORCES	CRIMP THE CABLE ONLY AT THE CONDUCTOR, AND R FORCE SHALL EXCEED THE SPECIFICATION WHEN PUI IS APPLIED. (DPQ50A - 15P(S)CFA (AWG#14 UL1015) (2)PQ50S(A)-1618P(S)CFA (AWG#16 UL1007) (3)PQ50S(A)-1822P(S)CFA (AWG#18 UL1007) (4)PQ50S(A)-1822P(S)CFA (AWG#24 UL1007)	1 22 2 13 3 8					
LOCK STRENGTH	APPLY 98 N PULL FORCE FOR 1 MINUTES TO THE PLUC MATING AXIAL DIRECTION WITH LOCKED CONDITION.	-	AMAGE. CRACK AND LOOSENESS OF PARTS.	x	-		
LEVER OPERATION FORCE	MEASURE THE LEVER OPERATION FORCE FOR LOCK/UNLOCK.		: 205.8 N MAX. K : 205.8 N MAX.	х	-		
CABLE CLAMP STRENGTH	APPLY PULL FORCE OF 98 N IN MATING DIRECTIO MINUTE.		① CONTACTS SHOULD BE RETAINED. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.		<ul> <li>① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX.</li> <li>② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>				
VIBRATION	FREQUENCY : 10 TO 55 Hz, SINGE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. (REFERENCE FOR APPENDED FIGURE 2)		ELECTRICAL DISCONTINUITY OF 10 μs. DAMAGE. CRACK AND LOOSENESS OF PARTS.	x	-		
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 6 DIMENSION AXIS 3 TIMES AT 490 $m/s^2$ DURACTIONS OF PULSE 11 ms.		ELECTRICAL DISCONTINUITY OF 10 µs. DAMAGE. CRACK AND LOOSENESS OF PARTS.	x	-		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 $\rightarrow$ 15 TO 35 $\rightarrow$ 105 $\rightarrow$ 15 TO 35 TIME 30 $\rightarrow$ 2 TO 3 $\rightarrow$ 30 $\rightarrow$ 2 TO 3 min. UNDER 5	CYCLES.	<ul> <li>① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX.</li> <li>DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-		
EXPOSED AT 105 °C $\pm$ 2 °C, 96 h, AND COMBINE T APPLICABLE CONNECTORS.		② IN	<ul> <li>① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX.</li> <li>SULATION RESISTANCE : 1000 MΩ MIN.</li> <li>DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-		
COLD RESISTANCE	EXPOSED AT -55 °C ± 3 °C, 96 h, AND COMB APPLICABLE CONNECTORS.	② IN	<ul> <li>① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX.</li> <li>SULATION RESISTANCE : 1000 MΩ MIN.</li> <li>DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-		
HUMIDITY	EXPOSED AT 60 °C $\pm$ 2 °C, 90 TO 95 %, 96 h, AND THE APPLICABLE CONNECTORS.	② I (	<ul> <li>① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX.</li> <li>NSULATION RESISTANCE : 1000 MΩ MIN.</li> <li>AFTER IT DRIER)</li> <li>DAMAGE. CRACK AND LOOSENESS OF PARTS.</li> </ul>	x	-		
MIXED FLOWING GUS	XPOSED IN SO2 10 ppm, H2S 3 ppm, 70 TO 80 %, 24 h, AND		AVY CORROSIN RUIN THE FUNCTION.	х	-		
DUST/SPRASH PROTECTION	FOLLOW IEC60529 TESTS AND COMBINE THE APPLICABI CONNECTORS.	LE PROTE NO HA	IEC60529) MIN CTED TO AVOID DUST INTRUSION. RMFULL EFFECT FROM DIRECT WATER SPRASH ANY DIRECTIONS.	x	-		
1 THE PRODUCT PERFOR 2 INCLUDE TEMPERATUR							
Note QT:Qualification Tes	at AT:Assurance Test X:Applicable Test	DRAW	RAWING NO. ELC-129122-00-00				
	ATION SHEET	PART NO.	PQ50WA-2U-PC2				
	OSE ELECTRIC CO., LTD.	CODE NO	CL0236-2092-0-00	$\triangle$	2/3		

## APPENDED FIGURE





APPENDED FIGURE 2. VIBRATION TEST METHOD DIAGRAM(SIDE VIEW).



FORM HD0011-2-2