V APPLICA	ABLE STANE	JAKD			OTOD 4 OF	<u>г</u>						
	OPERATING TEMPERATURE	RANGE 1> -55°C TO		10500		ORAGE MPERATURE RANGE PLICABLE CABLE			2> -55°C TO +85			
	VOLTAGE		AC 600 V , DC 600 V (ONLY CONNECTOR) AC 300 V , DC 300 V (TUV·UL)						_			
RATING	CURRENT		PQ50 (A) CONTACT: 19. 0A/PIN (AWG#14) PQ50S (A) CONTACT:		APPL I CA			 PQ50WA/S-10*/34*-UNIT AWG#14 TO AWG#22 (ONLY 10PIN) (UL-STYLE:UL1007, UL101 OTHERS AWG#16 TO AWG#28 (UL-STYLE:UL1007) 			,	
		•	SPEC	CIFICAT	IONS							
	EM		TEST METHOD				RE	QUIR	EMENTS	QT	AT	
										X	X	
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACC	ACCORDING TO DRAWING.					X	
MARKING ELECTRICAL CHARAC			CONFIRMED VISUALLY.									
ELECIRIC	AL CHARAC	TERISTI	65			3	5 mO MAV			x	- 1	
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz) MAX.				3 5 m Ω MAX. (CONTACT SPACING) 3 50 m Ω MAX. (SHELL SPACING)				X	-	
INSULATION RE	SISTANCE	500 V DC.				5000 M Ω MIN.				х	-	
VOLTAGE PROOF		3310 V AC	3310 V AC. FOR 1 min.			FLASH	OVER OR BR	EAKDOW	N.	Х	-	
		(AWG#14 CURRENT PQ50S(A) (AWG#18	NTACTS. CONTACT ⇔ PQ50(A) CONTAC UL1015) (AWG#14 UL10 CARRIED:19A/PIN CONTACT ⇔ PQ50S(A) CONT UL1007) (AWG#18 UL10 CARRIED:12.5A/PIN	015) TACT	МАХ	X. 30°C	INCREASE	FROM A	MBIENT TEMPERATURE.	x	-	
MECHANIC	CAL CHARA	CTERIST	ICS									
CONTACT INSERTION AND WITHDRAWAL FORCES		MEASURE WITH THE BELOW CONTACT PAIR. ① PQ50(A) CONTACT ↔ PQ50(A) CONTACT ② PQ50S(A) CONTACT ↔ PQ50S(A) CONTACT			۲ (2)	 ①INSERTION FORCE : 3.0 N MAX. WITHDRAWAL FORCE : 1.0 N MIN. ②INSERTION FORCE : 3.0 N MAX. WITHDRAWAL FORCE : 0.3 N MIN. 				x	-	
CONNECTOR INSERTION AND WITHDRAWAL FORCES		(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 (LANCE RETENTION FOR		CABLE ASS ① PQ50 (A	ECIFICATIONED PULL FORCE FO EMBLY SIDE. .) -15P(S)CFA(AWG#14) :68.6 (A) -1822P(S)CFA(AWG#18):29.4	N	FROM		CTS SHOULD MAGE. CRAC		TAINED. LOOSENESS OF PARTS.	x	-	
COUN	T DI	ESCRIPTI	ON OF REVISIONS	[DESIGNE	ED			CHECKED	DA	DATE	
										<u> </u> .		
REMARK ABOVE SPESIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITION					ν ΜΟΙΤΙΟ	APPROVED					$\frac{12.28}{22.28}$	
APPLICABLE CRIMP CONTACTS.			TE TALOLO IN AGGLINDLED CONDITION			DESIGNE			NM. NISHIMATSU MO. SHIMOYAMA			
Unless otherwise specified, refer to IE			EC 60512.			DRAWN				MO. SHIMOYAMA 18.		
					DRA	DRAWING NO.			ELC-129286-51-0			
שכ	S	PECIF				ART NO.		PQ50WA-2UA-FL (51)				
HRS		-									1/3	
		OSE ELECTRIC CO., LTD.			CODE N	IU.	U. UL23		6-2096-0-51		1/1	

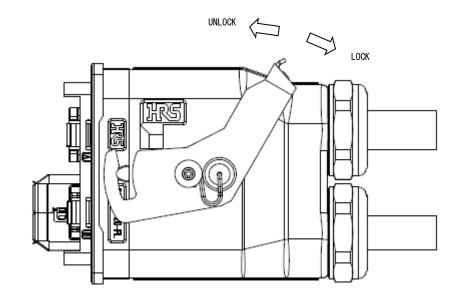
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ITEM	SPECIFICA TEST METHOD		ر	REOLIII		S	ОТ	AT
						0		
	CRIMP THE CABLE ONLY AT THE CONDUCTOR, AND RE	TENTION						
	FORCE SHALL EXCEED THE SPECIFICATION WHEN PULL		1) 222.6 N MIN.					
CONDUCTOR PRESSURE BONDING	IS APPLIED. ①PQ50A – 15P (S) CFA (AWG#14 UL1015)		 2 133.5 					
FORCES	(2)PQ50S (A) -1618P (S) CFA (AWG#14 UL1015) (2)PQ50S (A) -1618P (S) CFA (AWG#16 UL1007)		3 89.0			Х	-	
	③PQ50S (A) -1822P (S) CFA (AWG#18 UL1007)	(④ 22.3	N MIN.				
	@PQ50S (A) -1822P (S) CFA (AWG#24 UL1007)							
LOCK STRENGTH	APPLY 98 N PULL FORCE FOR 1 MINUTES TO THE PLUG	IN	NO DAMAG	GE. CRACK AND	LOOSENESS OF PARTS.		х	
	MATING AXIAL DIRECTION WITH LOCKED CONDITION.						^	_
LEVER OPERATION FORCE	MEASURE THE LEVER OPERATION FORCE FOR LOCK/UNLO	CK.		47 N MAX. 47 N MAX.			х	-
CABLE CLAMP STRENGTH	APPLY PULL FORCE OF 98 N IN MATING DIRECTION	FOR A	1 CONTAG	CTS SHOULD BE	RETAINED.	×	х	
UADLE ULAMP STRENUTH	MINUTE.	(② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
		[3>	1 change in	CONTACT RESI	STANCE OF		
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.			CONTACTS	$20 \text{ m}\Omega$ MAX.		х	-
		(② NO DAI	MAGE. CRACK AN	D LOOSENESS O	OF PARTS.		
	FREQUENCY : 10 TO 55 Hz, SINGE AMPLITUDE 0.75 mr	,				•		
VIBRATION	AT 2 h, FOR 3 DIRECTIONS.			ECTRICAL DISCO		•	Х	-
	(REFERENCE FOR APPENDED FIGURE 2)	((2) NO DAI	MAGE. CRACK AN	D LOOSENESS O	IF PARTS.		
	IN OPPOSITE DIRECTIONS OF EACH 6 DIMENSION AXIS	FOR	① NO ELECTRICAL DISCONTINUITY OF 10 μs.					1
SHOCK	3 TIMES AT 490 m/s ² DURACTIONS OF PULSE 11 ms.		0	MAGE. CRACK AND LOOSENESS OF PARTS.			Х	-
			3>	① CHANGE IN	CONTACT RESI	STANCE OF		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE $-55 \rightarrow 15$ TO $35 \rightarrow 105 \rightarrow 15$ TO $35 \circ$			CONTACTS	20 mΩ MAX.		Х	-
	TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min. UNDER 5 0	CYCLES.	② NO DAI	MAGE. CRACK AN	D LOOSENESS O	F PARTS.		
	EXPOSED AT 105 °C ± 2 °C, 96 h, AND COMBII		3>	① CHANGE IN	CONTACT RESI	STANCE OF		
		INE THE		CONTACTS	20 mΩ MAX.		x	
HEAT RESISTANCE	APPLICABLE CONNECTORS.	(② INSUL	ATION RESISTAN	CE : 1000 MΩ	MIN.	^	-
		(3 NO DAI	MAGE. CRACK AN	D LOOSENESS O	F PARTS.		
	EXPOSED AT -55 °C \pm 3 °C, 96 h, AND COMBIN		3 ① CHANGE IN CONTACT RES		CONTACT RESI	STANCE OF		
COLD RESISTANCE		INE THE		CONTACTS	20 mΩ MAX.		х	_
	APPLICABLE CONNECTORS.	0	② INSUL	SULATION RESISTANCE : 1000 M Ω MIN.				
		(<u> </u>	MAGE. CRACK AN	D LOOSENESS O	OF PARTS.		
			3>	① CHANGE IN		STANCE OF		
	EXPOSED AT 60 °C ± 2 °C, 90 TO 95 %, 96 h, AND	COMBINE	~		20 mΩ MAX.		x	
HUMIDITY	THE APPLICABLE CONNECTORS.	C	0	LATION RESISTA	NCE : 1000 MG	2 MIN.		-
			(AFTER IT DRIER) ③ NO DAMAGE. CRACK AND LOOS					
			ଏ NU DAI	MAGE. CRACK AN	UUUSENESS O	IF PARIS.		+
MIXED FLOWING GUS	EXPOSED IN SO ₂ 10 ppm, H_2S 3 ppm, 70 TO 80 %, 24 COMBINE THE APPLICABLE CONNECTORS.		NO HEAVY	CORROSIN RUIN	THE FUNCTION	l.	х	-
				60529) MIN				
DUST/SPRASH PROTECTION	FOLLOW IEC60529 TESTS AND COMBINE THE APPLICABLE	L .		D TO AVOID DUS		0001011	х	-
	CONNECTORS.		NO HARMFULL EFFECT F		M DIREGI WAIE	R SPRASH		
		1	FRUM ANY	DIRECTIONS.				
REMARK								
"A" IN PARENTHESIS PQ50(A)	AND PQ50S(A) INDICATES SEQUENTIAL CONTACTS, PQ5	doa and p	2Q50SA.					
1) THE PRODUCT PERFOR	RMANCE IS GUARANTEED ONLY IN THE TEMPERATURE ADEC	QUATE PEO	OPLE'S A	ACTIVITIES.				
-	RE RISE CAUSED BY CURRENT-CARRYING. R ASSEMBLED ITEM WITH APPLICABLE HOUSING.							
© 01200100000								
2 PACKING MATERIALS ARE	E NOT INCLUDED.							
2 PACKING MATERIALS ARE 3 CABLE CONDUCTOR RESIS	STANCE IS NOT INCLUDED.	_ =				00000	F 4 A	0
2 PACKING MATERIALS ARE 3 CABLE CONDUCTOR RESIS		DF	RAWIN	g NO.	ELC-1	29286-	-51-00	0
2 PACKING MATERIALS ARE 3 CABLE CONDUCTOR RESIS	STANCE IS NOT INCLUDED.	DF			ELC-1 50WA-2U			0

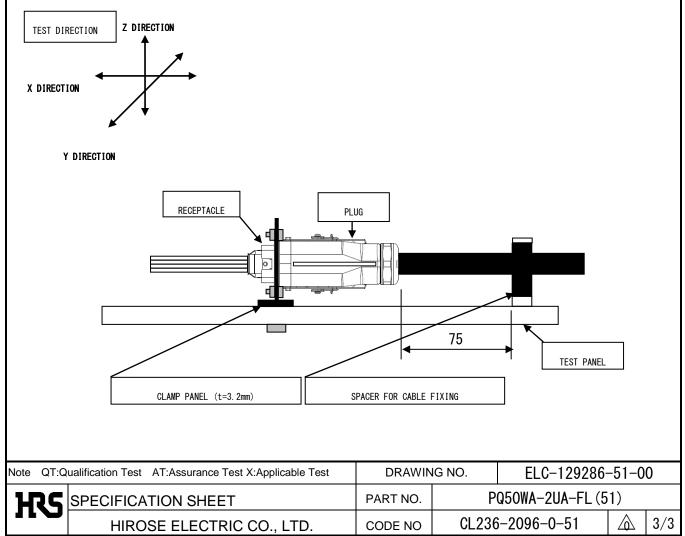
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APPENDED FIGURE

APPENDED FIGURE 1. LEVER OPERATION FORCE



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



FORM HD0011-2-2