APPLICAB	LE STANDA	RD									
	OPERATING TEMPERATURE	RANGE	1 -40°C TO +105°C	С	STORAGE TEMPERATUR	RE RANGE		2> -55°C TO +85°C			
RATING	VOLTAGE		AC 600 V , DC 600	00 V —		_					
	CURRENT		AWG#16(UL1015) 20pos.	AWG#16(UL1015) 20pos. : 6 A APPLIC		ICABLE CABLE		AWG#16 TO AWG#18 (UL-STYLE : UL1007 , UL1015)			
	•		SPEC	CIFICA	TIONS		•				
17	EM		TEST METHOD			RE	QUIRE	MENTS	QT	AT	
CONSTRU	CTION				·					'	
GENERAL EXAM	INATION	VISUALLY AND BY MEASURING INSTRUMENT.							Х	X	
MARKING		CONFIRMED VISUALLY.			ACCORD	ING TO DRAW	ING.		Х	X	
ELECTRIC	AL CHARAC	TERISTI	CS		•					•	
CONTACT RESI	STANCE	100 mA (DC OR 1000 Hz) MAX.				3 10 mΩ MAX. (CONTACT SPACING) 3 > 50 mΩ MAX. (SHELL SPACING)				-	
INSULATION R	ESISTANCE	500 V DC.				0 MΩ MIN.			Х	<b>†</b> -	
VOLTAGE PROO						O FLASHOVER OR BREAKDOWN.				† -	
MECHANIC	CAL CHARAC	CTERISTICS				TO LEGISTER ON PREPAREDUM.				-	
CONTACT INSE		APPRICABLE CONTACT.				SERTION FORCE : 3 N MAX.  THDRAWAL FORCE : 1 N MIN.				-	
CONNECTOR IN						SERTION FORCE : 98 N MAX.				+	
WITHDRAWAL F		APPRICABLE CONNECTOR.				ITHDRAWAL FORCE: 14.7 N MIN.				-	
CONTACT (LANC					① CON	① CONTACTS SHOULD BE RETAINED.					
RETENTION FO	RCES	PULL A TE	RMINAL BY 49 N (1 min.) FROM	A TERMINA	L AREA. 2 NO	NO DAMAGE. CRACK AND LOOSENESS OF PARTS.			X	-	
COMPLICTOR DR	FACURE DONDING	CRIMP THE	CABLE ONLY AT THE CONDUCTOR	R, AND RE	ETENTION	(A) 10001110 - 117 11 11					
FORCES	ESSURE BONDING	FORCE SHALL EXCEED THE SPECIFICATION WHEN PULL FORCE IS APPLIED.			L FORCEI	D AWG#16 : 147 N MIN. D AWG#18 : 98 N MIN.			X	-	
CABLE CLAMP	CABLE CLAMP STRENGTH		APPLY PULL FORCE OF 98 N IN MATING DIRECTION FOR A MINUTE.			CONTACTS SHOULD BE RETAINED.  NO DAMAGE. CRACK AND LOOSENESS OF PARTS.			-		
MECHANICAL O	PERATION	500 TIMES INSERTIONS AND EXTRACTIONS.				3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS: 20 mΩ MAX.			×	<u> </u>	
					② N0	NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
		FREQUENCY	: 10 TO 55 Hz, SINGE AMPLIT	TUDE 0. 75	mm					1	
VIBRATION		AT 2 h, FOR 3 DIRECTIONS.						NUITY OF 10 μs. .OOSENESS OF PARTS.	×	-	
		(REFERENC	E FOR APPENDED FIGURE)		2 110	DAMAGE. OKA	JIN AND L	OUSENESS OF TAINTS.			
SHOCK					-	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				-	
COUN	T DE	SCRIPTI	IPTION OF REVISIONS DESIG		DESIGNED	NED		CHECKED		ATE	
0											
REMARK			1			APPROVE		KN. ICHIKAWA	10. 09. 2		
ABOVE SPI	ESIFICATION :	SHOWS THE VALUES IN ASSEMBLED CONDITION			NDITION WITH			KN. ICHIKAWA	10. (	09. 28	
APPLICABLE	CRIMP CONTA	ACTS.	CTS.					TY. MIURA	10. 09. 28		
Unless of	nerwise spe	cified. re	ified, refer to JIS C 5402.					TF. HIGASHIYAMA	10. 09. 27		
Note QT:Qualification Test AT:Assurance Test X:A				Test DRAWIN				ELC4-127021-00			
RS	SF	PECIFI	CIFICATION SHEET PAR			NO. PQ50-20P					
HIR		OSE ELECTRIC CO., LTD.			CODE NO.	NO. CL236-2011-4-00			$\triangle$	1/3	

FURM MUUUTT-Z-T				
	SPECIFICATION	S		
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHA	ARACTERISTICS		•	
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: 20 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: 20 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	×	-
COLD RESISTANCE	EXPOSED AT $-55~^{\circ}\text{C}~\pm~2~^{\circ}\text{C},~96~\text{h},~\text{AND}~\text{COMBINE}$ THE APPLICABLE CONNECTORS.	3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS: 20 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. (AFTER IT DRIER) ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
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: 20 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	×	-
MIXED FLOWING GUS	EXPOSED IN SO <sub>2</sub> 10 ppm, H <sub>2</sub> 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 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:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC4-127021-00		
HRS	SPECIFICATION SHEET	PART NO.	PQ50-20P			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236	-2011-4-00	<b>A</b>	2/3

