

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	
△					△					
△					△					
APPLICABLE STANDARD										
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C			STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C				
	VOLTAGE	AC 350 V, DC 490 V								
	CURRENT	5 A			APPLICABLE CABLE	φ8±0.2				
SPECIFICATIONS										
ITEM		TEST METHOD			REQUIREMENTS			QT	AT	
CONSTRUCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			○	○	
MARKING		CONFIRMED VISUALLY.						○	○	
ELECTRIC CHARACTERISTICS										
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A			4 mΩ MAX.			○	○		
	CONTACT SHALL BE MEASURED AT DC --- A			--- mΩ MAX.			---	---		
INSULATION RESISTANCE	500 V DC.			1000 MΩ MIN.			○	○		
VOLTAGE PROOF	1000 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			○	○		
MECHANICAL CHARACTERISTICS										
CONTACT INSERTION AND WITHDRAWAL FORCES		--- BY STEEL GAUGE.			INSERTION AND WITHDRAWAL FORCES : --- N MIN.			---	---	
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 25 N MAX. LOCKING DEVICE WITH LOCK : --- N MAX.			○	---	
MECHANICAL OPERATION		2000 TIMES INSERTIONS AND EXTRACTIONS.			CONTACT RESISTANCE: 8 mΩ MAX. --- RESISTANCE: --- mΩ MAX.			○	---	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, --- m/s ² AT 2 h, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	---	
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	---	
ENVIRONMENTAL CHARACTERISTICS										
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.			① INSULATION RESISTANCE: --- MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	---	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.			① INSULATION RESISTANCE: 100 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	---	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			NO HEAVY CORROSION.			○	---	
DRY HEAT		EXPOSED AT + 85 °C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	---	
COLD		EXPOSED AT - 55 °C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	---	
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, + 380 ± 10 °C, FOR SOLDERING DURATION, 3 s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			○	---	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, + 350 ± 10 °C FOR SOLDERING DURATION, 3 s.			WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.			○	---	
REMARKS										
NOTE(1) R/T : ROOM TEMPERATURE					DRAWN		DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.					Y. Yamada 05.08.31		Y. Yamada 05.08.31	H. Zembu 05.09.01	M. Ito 05.09.01	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test										
HRS		HIROSE ELECTRIC CO., LTD.			SPECIFICATION SHEET			PART NO. RM12BPE-5PH (71)		
CODE NO. (OLD)		DRAWING NO.			CODE NO.			1/1		
CL		ELC4-112322-71			CL109-0420-1-71					

