

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C <sup>(1) (2)</sup>		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C <sup>(3)</sup>		
	OPERATING HUMIDITY RANGE	RH 90 % MAX <sup>(2) (4)</sup>		STORAGE HUMIDITY RANGE	RH 70 % MAX <sup>(3) (4) (6)</sup>		
	VOLTAGE	300 V DC/AC		CURRENT	40A (TEMPERATURE RISE 30°C MAX)		
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
GENERAL EXAMINATION		VISUAL AND WITH MEASURING INSTRUMENT		ACCORDING TO DRAWING		×	×
MARKING		CONFIRMED VISUALLY				×	×
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE [EIA-364-23]		10 mA		2 mΩ MAX. <sup>(5)</sup> MATED WITH IT-PB-2S-DIRL**		×	-
INSULATION RESISTANCE [EIA-364-21]		500 V DC		1000 MΩ MIN.		×	-
VOLTAGE PROOF [EIA-364-20]		1000 V AC FOR 1 MINUTE		NO FLASHOVER OR BREAKDOWN.		×	-
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]		MEASURED WITH RESPECT TO APPLICABLE CONNECTORS		INSERTION FORCE: 50 N MAX. WITHDRAWAL FORCE: 3 N MIN. (mated with IT-PB-2S-DIRL**)		×	-
MECHANICAL OPERATION [EIA-364-09]		100 TIMES INSERTION AND EXTRACTION		① CONTACT RESISTANCE: 2 mΩ MAX. <sup>(5)</sup> ② NO DAMAGE, CRACKS, OR LOOSE PARTS		×	-
RANDOM VIBRATION [EIA-364-28]		FREQUENCY : 50 TO 2000 Hz POWER SPECTRAL DENSITY : 0.1 g <sup>2</sup> /Hz FOR 90 MINUTES IN THREE DIRECTIONS * Spacers were used to maintain the distance between the PCB's during testing.		① NO ELECTRICAL DISCONTINUITY OF 1 μs OR MORE ② NO DAMAGE, CRACKS, OR LOOSE PARTS		×	-
SHOCK [EIA-364-27]		490 m/s <sup>2</sup> , DURATION OF PULSE : 11 ms 18 TIMES TOTAL , 3 EACH DIRECTION , 3 AXIS * Spacers were used to maintain the distance between the PCB's during testing.				×	-
ENVIRONMENTAL CHARACTERISTICS							
THERMAL SHOCK [EIA-364-32]		TEMPERATURE: -55 → 20 ~ 35 → 85 → 20 ~ 35 °C TIME: 30 → 5 MAX → 30 → 5 MAX minutes 10 CYCLES		① CONTACT RESISTANCE : 2 mΩ MAX. <sup>(5)</sup> ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACKS, OR LOOSE PARTS		×	-
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]		@ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME 24 CYCLES				×	-
DRY HEAT [EIA-364-17]		EXPOSED AT 105 °C, 120 hr		① CONTACT RESISTANCE : 2 mΩ MAX. <sup>(5)</sup> ② NO DAMAGE, CRACKS, OR LOOSE PARTS		×	-
MIXED FLOWING GAS [EIA-364-65]		EXPOSED AT 30 °C, 70% Cl <sub>2</sub> : 10 ppb, NO <sub>2</sub> : 200 ppb, H <sub>2</sub> S : 10 ppb, SO <sub>2</sub> : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS		CONTACT RESISTANCE : 2 mΩ MAX. <sup>(5)</sup>		×	-
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
△							
REMARKS				APPROVED	MK. EZAKI	15. 12. 03	
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. (2) OPERATING TEMPERATURE SHOULD BE -55 TO 55°C WHEN HUMIDITY EXCEEDS 80% RH. (3) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT IN SEALED BAGS BEFORE ASSEMBLY TO PCB. (4) NO DEW CONDENSATION IS PERMITTED. (5) THE VALUE OF CONTACT RESISTANCE INCLUDES 2 CONTACT POINTS AND THE BULK RESISTANCE. (6) THIS APPLIES TO SEALED PLASTIC BAGS. OPEN BAGS MUST BE PROTECTED FROM MOISTURE, SULFUR, AND CHLORIDE WHICH CAN CAUSE THE SILVER PLATING TO TARNISH. (7) THE TEST ITEM WHICH IS NOT DESCRIBED HEREIN SHALL BE COME FROM IEC-60512 (JIS C 5402).				CHECKED	MK. EZAKI	15. 12. 03	
				DESIGNED	NY. SHIMURA	15. 12. 03	
				DRAWN	NY. SHIMURA	15. 12. 03	
Note; QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-364206-11-00	
HRS	SPECIFICATION SHEET			PART NO.		IT-PB-2P-11H(11)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL636-0633-0-11	△ 1/1