

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(1)</sup>	
	VOLTAGE	50 V AC	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % RH MAX. <sup>(2)</sup>	
	CURRENT	0.3 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(1)</sup>	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUAL AND WITH MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	x x
MARKING		CONFIRM VISUALLY.			x x
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE [EIA-364-23]		100 mA and 20 mv OPEN CIRCUIT MAX.		11mm height : 95 mΩ MAX. 12mm height : 100 mΩ MAX. 13mm height : 105 mΩ MAX.	x —
INSULATION RESISTANCE [EIA-364-21]		100 V DC.		100 MΩ MIN.	x —
VOLTAGE PROOF [EIA-364-20]		150 V AC FOR 1 MINUTE.		NO FLASHOVER OR BREAKDOWN.	x —
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]		MEASURED BY APPLICABLE CONNECTORS.		INSERTION FORCE: 100.8 N MAX. WITHDRAWAL FORCE: 4.2 N MIN.	x —
MECHANICAL OPERATION [EIA-364-09]		50 TIMES INSERTIONS AND EXTRACTION.		① CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x —
RANDOM VIBRATION [EIA-364-28]		FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G <sup>2</sup> /Hz OVERALL rms G: 3.1 Grms FOR 15 MINUTES IN THREE DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	x —
SHOCK [EIA-364-27]		490 m/s <sup>2</sup> , DURATION OF PULSE: 11 ms 3 EACH DIRECTION, 3 AXIS.			x —
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK [EIA-364-32]		TEMPERATURE: -55 → 15 ~ 35 → 85 → 15 ~ 35 °C TIME: 30 → 5 → 30 → 5 min. UNDER 10 CYCLES		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	x —
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 UNDER 24 CYCLES.			x —
DRY HEAT [EIA-364-17]		EXPOSED AT 105 °C, 1000 hr.			x —
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.		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO HEAVY CORROSION.	x —
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
REMARK <sup>(1)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. <sup>(2)</sup> NO DEW CONDENSATION IS PERMITTED.			APPROVED	TM. MATSUO	17. 07. 26
			CHECKED	TM. MATSUO	17. 07. 26
			DESIGNED	AS. MATSUZAWA	17. 07. 26
			DRAWN	XINGYU CHENG	17. 07. 26
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC-354341-03-00
HRS	SPECIFICATION SHEET		PART NO.	FX10-168IP-52Q-8PH (03)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL608-0005-4-03	△ 1/1