

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-30°C TO +80°C	CURRENT	0.5A/1pin (1A/2pin-ONLY No1, 18)	
	STORAGE TEMPERATURE RANGE	-40°C TO +85°C			
	VOLTAGE	AC 30V			
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING		CONFIRMED VISUALLY.		X	X
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).	60 mΩ MAX.	X	—
INSULATION RESISTANCE		100 V DC.	100 MΩ MIN.	X	—
VOLTAGE PROOF		100 V AC FOR 60 sec.	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. (APPLICABLE CONNECTOR:GX40-18S)	INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 10 N MIN.	X	—
MECHANICAL OPERATION		10000 TIMES INSERTIONS AND WITHDRAWALS AT THE SPEED OF LESS THAN 600 TIMES PER 1hour.	1) CONTACT RESISTANCE : 100 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 3) INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 10 N MIN. (BIGINING TO 5000 TIMES) 5 N MIN. (5001 TO 10000 TIMES)	X	—
VIBRATION		FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, FREQUENCY PACE OF CHANGE 1 OCTAVE/min, FOR 3 DIRECTIONS FOR 10 CYCLES.	1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK		490 m/s ² , DIRECTIONS OF PULSE 11 ms FOR 6 DIRECTIONS AT 3 TIMES.		X	—
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → 15 TO 35 → +85 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min. UNDER 5 CYCLES. AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY.	1) CONTACT RESISTANCE : 100 mΩ MAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. (AT HIGH HUMIDITY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±3 °C, 90 TO 95 %RH FOR 96±4 hours . AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY.		X	—
DRY HEAT		EXPOSED AT 85±2 °C FOR 96±4 hours. AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY.		X	—
COLD		EXPOSED AT -40±3 °C FOR 96±4 hours. AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY.		X	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER , 35 °C FOR 48±4 hours. AFTER : WET-CLEAN, 24 hours AT AMBIENT TEMPERATURES AND HUMIDITY.	NO SPECTACULAR CORRODE.	X	—
RESISTANCE TO SOLDERING HEAT (SOLDERIRON METHOD)		TEMPERATURE : 350 ± 10 °C TIME : 3 TO 4 sec. / 1pin	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SOLDERBILITY		SOLERRING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF 230±5 °C , 2 TO 4 sec.	SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER 95% MIN.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Δ					
REMARK			APPROVED	NM. NISHIMATSU	15. 10. 27
			CHECKED	KN. ICHIKAWA	15. 10. 27
			DESIGNED	TS. ITO	15. 10. 27
			DRAWN	AK. AKIYAMA	15. 10. 27
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-125502-30-00
HRS	SPECIFICATION SHEET		PART NO.	GX60-18P (30)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL247-0001-3-30	Δ 1/1