

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C	
	VOLTAGE	30 V AC	CURRENT	1 A	
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
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		1A DC.	SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX .	x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX .	x	—
INSULATION RESISTANCE		500 V DC	100 MΩ MIN.	x	—
VOLTAGE PROOF		500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x	—
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES		— BY STEEL GAUGE.	INSERTION FORCE — N MAX. EXTRACTION FORCE — N MIN.	—	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1 m/s ² AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
SHOCK		ACCELERATION 980m/s ² ,6ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
LOCK STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX.	① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	x	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE-40→5 TO 35→ 85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
DRY HEAT		EXPOSED AT 105°C, 1000 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
COLD		EXPOSED AT -40°C, 1000 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
RESISTANCE TO SO ₂ GAS		EXPOSED IN 500 PPM FOR 8 h.	CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX .	x	—
RESISTANCE TO SOLDERING HEAT		SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE TINNED SURFACE BEING IMMersed.	x	—
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	AR. SHIRAI	17.03.14
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	TH. MIZUGUCHI	17.03.13
(NOTE2) APPLICABLE BOARD : 1.6±0.2.			DESIGNED	TS. KUBOTA	17.03.13
			DRAWN	TS. KUBOTA	17.03.13
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-361827-11-01
HRS	SPECIFICATION SHEET		PART NO.	GT32-4DP-1. 5H (A) (11)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL782-0061-3-11	△ 1/1