

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	20190111
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	TH. MIZUGUCHI	20190110
(NOTE2) APPLICABLE BOARD : 1.6±0.2.			DESIGNED	TS. KUBOTA	20190110
			DRAWN	TS. KUBOTA	20190110
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-361829-12-01
HRS	SPECIFICATION SHEET		PART NO.	GT32-4DP-1. 5H (C) (12)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL782-0063-9-12	△ 1/1