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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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 (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. (NOTE2) APPLICABLE BOARD : 1.6±0.2.				APPROVED	AR. SHIRAI	20190111
				CHECKED	TH. MIZUGUCHI	20190110
				DESIGNED	TS. KUBOTA	20190110
				DRAWN	TS. KUBOTA	20190110
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-361828-12-01	
HRS	SPECIFICATION SHEET		PART NO.	GT32-4DP-1. 5H (B) (12)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL782-0062-6-12		1/1