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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.	30 mΩ MAX.	x	-
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	30 mΩ MAX.	x	-
INSULATION RESISTANCE	- V DC	100 MΩ MIN.	-	-
VOLTAGE PROOF	- V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	-	-
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	- BY STEEL GAUGE.	INSERTION FORCE - N MAX. EXTRACTION FORCE - N.	-	-
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE : 60 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 : 60 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
SHOCK	ACCELERATION 981m/s ² ,6ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : 60 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT - N MAX.	① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	-	-
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.	① CONTACT RESISTANCE : 60 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 : 60 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 : 60 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
COLD	EXPOSED AT -40°C, 1000 h.	① CONTACT RESISTANCE : 60 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
RESISTANCE TO SO ₂ GAS	EXPOSED IN 500 PPM FOR 8 h.	① CONTACT RESISTANCE : 60 mΩ MAX .	x	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK		APPROVED	NH. NAKATA	15.06.18
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.		CHECKED	KI. HIROKAWA	15.06.18
		DESIGNED	KK. FURUKAWA	15.06.18
		DRAWN	KK. FURUKAWA	15.06.18
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-359508-00-00	
HRS	SPECIFICATION SHEET	PART NO.	GT32A-2428PCF	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL782-0050-7-00	△ 1/1