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APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C (Note 1)		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C (Note 2)
	VOLTAGE	60 V AC/DC		STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX
	CURRENT	1.5 A			(NOT DEWED)
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 MILLIVOLT LEVEL METHOD	20 mV AC MAX, 1 mA(DC OR 1000Hz)		30 mΩ MAX .	X	-
INSULATION RESISTANCE	100 V DC.		500 MΩ MIN.	X	-
VOLTAGE PROOF	300 V AC FOR 1 min.		NO BREAKDOWN.	X	-
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 5 TO 600Hz (5 TO 14.9Hz:16.5mm(p-p), 14.9 TO 600Hz:73.0m/s ²) AT 3h FOR 8 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② CONTACT RESISTANCE: 50 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK	500m/s ² DURATION OF PULSE 10ms AT 10 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
LOCK STRENGTH	MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.		25 N MIN	X	-
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE:500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40→5 TO 35→125→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
DRY HEAT	EXPOSED AT 125°C, 1000 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
COLD	EXPOSED AT -40°C, 1000 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
RESISTANCE TO SOLDERING HEAT	△ SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.		NO DEFORMATION OF CASE AND EXCESSIVE DISTORTION OF THE TERMINALS. (Note 3)	X	-
SOLDERABILITY	SOLDERED AT SPECIFIED TEMPERATURE PROFILE.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	2	DIS-T-00019275	RS. TAKAGI	HH. TSUKUMO	20231013
	REMARK			APPROVED	20230419
	(NOTE1) Include the temperature rising by current.			CHECKED	20230419
	(NOTE2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			DESIGNED	20230419
	(NOTE3) Swellings which may be generated on the surface of housing do not affect product performance.			DRAWN	20230419
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-392591-00-00	
HRS	SPECIFICATION SHEET		PART NO.	GT50-8P-1H	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0760-1008-0-00	△ 1/1