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 In case that the application demands a high level of reliability, such as automotive,  
 please contact a company representative for further information.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C	
	VOLTAGE	250 V AC	CURRENT	1 A	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
STRUCTURE					
EXAMINATION OF APPEARANCE, STRUCTURE AND FINISHING	MEASUREMENT VIA VISUAL CHECK AND MEASURING INSTRUMENT	BE CONSISTENT WITH DRAWING.	X	X	
MARKING	VISUAL CONFIRMATION		X	X	
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE	MEASURE AT 1A DC.	30 mΩ MAX	X	-	
CONTACT RESISTANCE UNDER LOW VOLTAGE AND LOW CURRENT CONDITION	MEASURE AT 20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	30 mΩ MAX	X	-	
INSULATION RESISTANCE	MEASURE AT 500 V DC	100 MΩ MIN.	X	-	
VOLTAGE RESISTANCE	APPLY 650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-	
MECHANICAL CHARACTERISTICS					
REPEATED MECHANICAL OPERATION	30 TIMES FOR EACH INSERTION AND WITHDRAWAL.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
VIBRATION RESISTANCE	FREQUENCY AT 20 TO 200 Hz, ACCELERATION AT 43.1 m/s <sup>2</sup> ON EACH 3 DIRECTIONS FOR 3h.	① ELECTRICAL INSTANTANEOUS INTERRUPTION IS BELOW 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X	-	
IMPACT RESISTANCE	FREQUENCY AT 20 TO 50 Hz, ACCELERATION AT 66.6 m/s <sup>2</sup> FOR 1h.	① ELECTRICAL INSTANTANEOUS INTERRUPTION IS BELOW 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X	-	
LOCK STRENGTH	APPLY A PULL FORCE WITH 98N MAX ON THE DIRECTION OF MATING AXIS.	① MATING COMPLETELY DURING THE TEST. ② NO DEFECT ON MATING PARTS AFTER EVALUATION.	X	-	
ENVIRONMENTAL CHARACTERISTICS					
HUMIDITY RESISTANCE (STEADY STATE)	EXPOSE AT 60 °C, RH:90 ~ 95 % FOR 96h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X	-	
THERMAL SHOCK	TEMPERATURE: -40°C (30min) → ROOM TEMP (5min)→105°C (30min)→ ROOM TEMP (5min) UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X	-	
HEAT RESISTANCE	EXPOSE AT 105°C FOR 300 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X	-	
COLD RESISTANCE	EXPOSE AT -40°C FOR 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X	-	
RESISTANCE TO SO <sub>2</sub> GAS	EXPOSE TO THE GAS WITH CONCENTRATION OF 500 ppm FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. (WITHOUT AFFECTING THE ELECTRICAL CHARACTERISTICS.)	X	-	
RESISTANCE TO SOLDERING HEAT	PASS THROUGH THE SPECIFIED TEMPERATURE PROFILE FOR 2 TIMES.	NO DEFORMATION OF APPEARANCE, WITHOUT EXCESSIVE LOOSENESS OF TERMINALS.	X	-	
SODERABILITY	SOLDERING AT 245°C FOR 3sec.	NEW SOLDERING SURFACE SHALL COVER AT LEAST 95% OF THE SURFACE BEING IMMERSED.	X	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	0				
REMARK (NOTE1) INCLUDING TEMPERATURE RISING DUE TO CURRENT FLOW.			APPROVED	AR. SHIRAI	12.09.14
			CHECKED	NH. NAKATA	12.09.14
			DESIGNED	RZ. KANO	12.09.14
			DRAWN	RZ. KANO	12.09.14
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-167885-00
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	GT8E-16DP-2H	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL758-1009-5-00	△ 1/1