







APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1) 		STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C 	
	VOLTAGE	50 V DC		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.		50 mΩ MAX.		x -
CONTACT RESISTANCE		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		50 mΩ MAX.		x -
MILLIVOLT LEVEL METHOD						
INSULATION RESISTANCE		500 V DC		100 MΩ MIN.		x -
VOLTAGE PROOF		500 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		x -
MECHANICAL CHARACTERISTICS						
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1 m/s <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 100 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
SHOCK		FREQUENCY 20 TO 50 Hz, 66.6 m/s <sup>2</sup> AT 1 h.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 100 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
LOCK STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT 100N 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: 100 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→105→5 TO 35℃  TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.		① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
DRY HEAT		EXPOSED AT 105°C, 300 h.		① CONTACT RESISTANCE: 100 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
COLD		EXPOSED AT -40°C , 120 h.		① CONTACT RESISTANCE: 100 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
RESISTANCE TO SO <sub>2</sub> GAS		EXPOSED IN 25 PPM FOR 96h.		CONTACT RESISTANCE: 100 mΩ MAX.		x -
RESISTANCE TO SOLDERING HEAT		EXPOSE 2 TIMES AT SPECIFIED TEMPERATURE PROFILE.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		x -
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3s.		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
	3	DIS-T-00003792		NK. IKUTA	MO. OKADA	20180927
REMARK				APPROVED	K.I. HIROKAWA	20170705
NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				CHECKED	MO. OKADA	20170705
NOTE2) APPLICABLE BOARD : 0.8 mm				DESIGNED	NK. IKUTA	20170705
NOTE3) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 150mΩ.				DRAWN	GYEONGMIN LEE	20170705
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-377153-00-00
	SPECIFICATION SHEET			PART NO.	GT43-1P-H(E)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL753-1016-0-00	 1/1