

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1) \triangle 2		STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C \triangle 2	
	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 m Ω MAX.	- -	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		50 m Ω MAX.	- -	
INSULATION RESISTANCE		500 V DC		100 M Ω 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 m Ω 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 μ s. ② CONTACT RESISTANCE: 100 m Ω MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	- - - - x -	
SHOCK		FREQUENCY 20 TO 50 Hz, 66.6 m/s ² AT 1 h.		① NO ELECTRICAL DISCONTINUITY OF 10 μ s. ② CONTACT RESISTANCE: 100 m Ω 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 - x -	
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.		① CONTACT RESISTANCE: 100 m Ω MAX. ② INSULATION RESISTANCE:100 M Ω MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	- x x - - -	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE-40 \rightarrow 5 TO 35 \rightarrow 105 \rightarrow 5 TO 35 \triangle 2 TIME 30 \rightarrow 5 \rightarrow 30 \rightarrow 5 min UNDER 1000 CYCLES.		① CONTACT RESISTANCE: 100 m Ω MAX. ② INSULATION RESISTANCE:100 M Ω MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	- x x - - -	
DRY HEAT		EXPOSED AT 105 \triangle 2 \circ C, 300 h.		① CONTACT RESISTANCE: 100 m Ω MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	- x -	
COLD		EXPOSED AT -40 \circ C , 120 h.		① CONTACT RESISTANCE: 100 m Ω MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	- x -	
RESISTANCE TO SO ₂ GAS		EXPOSED IN 25 PPM FOR 96h.		① CONTACT RESISTANCE: 100 m Ω MAX. ② NO HARMFUL CORROSION.	- - - -	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
\triangle 2	4	DIS-T-00003792	NK. IKUTA	MO. OKADA	20180927	
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. (NOTE2) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 150m Ω MAX.				APPROVED	KI. HIROKAWA	20180307
				CHECKED	KI. HIROKAWA	20180307
				DESIGNED	KT. OKABE	20180307
				DRAWN	GYEONGMIN LEE	20180307
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-376894-00-00	
HRS	SPECIFICATION SHEET		PART NO.	GT43-1S-HU (F)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL753-1012-0-00	\triangle 2 1/1	