

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C (NOTE 2)	
	CURRENT	3 A	Storage Humidity Range	Relative humidity 85% max (Not dewed)	
	VOLTAGE	250 V AC	Operating Humidity Range		
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.	—	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	30 mΩ MAX.	—	—
INSULATION RESISTANCE		500 V DC	100 MΩ MIN.	X	—
VOLTAGE PROOF		650 V AC FOR 1 min.	NO BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS					
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 400 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		FREQUENCY 20 TO 50 Hz, 66.6 m/s ² AT 3 h.	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 98N 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: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— X X	— — —
HEAT SHOCK		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 X	— — —
DRY HEAT		EXPOSED AT 105°C, 300 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— X	— —
COLD		EXPOSED AT -40°C , 120 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 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	— —	— —
RESISTANCE TO SOLDERING HEAT		SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY		SOLDERED AT SPECIFIED TEMPERATURE PROFILE.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK (NOTE1) Include temperature rise caused by current-carrying. (NOTE2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			APPROVED	HK. UMEHARA	20200824
			CHECKED	HH. TSUKUMO	20200824
			DESIGNED	DONGCHAN KIM	20200824
			DRAWN	AN. SAIKI	20200824
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-169602-00	
	SPECIFICATION SHEET		PART NO.	GT25-16DS-R	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL775-0067-1-00	△ 1/1