APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	△1 −55 °C TO +85 °C(1)	STORAGE TEMPERATURE RANGE	△1 −40 °C TO +60 °C(2)
	OPERATING HUMIDITY RANGE	85 % MAX(3)	STORAGE HUMIDITY RANGE	△1 5 % TO 85 %(2)
	VOLTAGE	250 V AC	APPLICABLE CABLE	—
	CURRENT	3 A	INSULATION	—

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	30 mΩ MAX .	×	—
INSULATION RESISTANCE	500 V DC.	1000 MΩ MIN.	×	—
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	□0.635 ± 0.002 mm BY STEEL GAUGE.	INSERTION FORCE : 4.4 N MAX. EXTRACTION FORCE: 0.4 N MIN.	×	—
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 30 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, 2 h IN 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
SHOCK	490 m/s², DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		×	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	1) CONTACT RESISTANCE: 30 mΩ MAX. 2) INSULATION RESISTANCE: 500 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE −55 → +15 TO +35 → +85 → +15 TO +35 °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min. UNDER 5 CYCLES.	1) CONTACT RESISTANCE: 30 mΩ MAX. 2) INSULATION RESISTANCE: 1000 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RESISTANCE TO SOLDERING HEAT	SOLDER BATH:SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION,DURATION, 10 ± 1 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—
	SOLDERING IRONS : 360°C FOR 5 s MAX.		×	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 ± 5 °C, FOR IMMERSION DURATION, 5 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△1	4	DIS-F-00000458	MT. ITANO	HT. YAMAGUCHI	15.07.14

REMARK
(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.
△1 (3) NO CONDENSATION.
Unless otherwise specified, refer to IEC-60512.

APPROVED	HS. OKAWA	12.12.25
CHECKED	HT. YAMAGUCHI	12.12.25
DESIGNED	KJ. NISHIWAKI	12.12.25
DRAWN	CR. TAKESHIMA	12.12.25

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-342847-00

HRS	SPECIFICATION SHEET	PART NO.	MA49-19S-2.54DSA	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL588-0500-3-00	△1 1/1

FORM HD0011-2-1