

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-35°C TO 85°C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C
	VOLTAGE	250V AC	APPLICABLE CONNECTOR	MDF7-*S-2. 54DSA (**)
	CURRENT	3A		

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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#### CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

#### ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE	100m A (DC OR 1000 Hz).	30mΩ MAX.	X	—
INSULATION RESISTANCE	500V DC	1000MΩ MIN.	X	—
VOLTAGE PROOF	650V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—

#### MECHANICAL CHARACTERISTICS

MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—


#### ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ 5 TO 35→85→ 5 TO 35°C TIME 30→10 TO 15→30→10 TO15min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
RESISTANCE TO SOLDERING HEAT	【FLOW CONDITION BY AUTOMATIC SOLDERING UNIT】 SOLDER TEMPERATURE 260±5°C, FOR IMMERSION DURATION 10s.(ONE TIME) 【RECOMMENDED MANUAL SOLDELING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS. DO NOT APPLY ANY FORCE TO THE CONTACTS.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 245±5°C FOR IMMERSION DURATION 5s.	SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMersed.	X	—

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
1	DIS-H-008899	YN. SAKAMOTO	TS. MIYAZAKI	14. 07. 04

REMARKS NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.  UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .	APPROVED	KJ. KATAYOSE	05. 01. 05
	CHECKED	KI. AKIYAMA	05. 01. 05
	DESIGNED	TH. ARAI	05. 01. 05
	DRAWN	TH. ARAI	05. 01. 05

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-162622-10
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<b>HRS</b>	SPECIFICATION SHEET	PART NO.	MDF7-*P-2. 54DSA (55)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL547-  1/1

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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.

