

APPLICABLE STANDARD		SPECIFICATIONS				
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-*P-2. 54DSA (**)	
	CURRENT	3A				
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						
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.		X —	
MECHANICAL OPERATION	50TIMES 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 ² 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						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ 5 TO 35→85→5 TO 35°C TIME 30→10 TO 15→30→10TO15min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X —	
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 —	
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		X —	
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEITA-39)		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		X —	
RESISTANCE TO SOLDERING HEAT	【FLOW CONDITION BY AUTOMATIC SOLDERING UNIT】 SOLDER TEMPERATURE 260±5°C, FOR IMMERSION DURATION 10s.(ONE TIME) 【RECOMMENDED MANUAL SOLDERING 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	
 6		DIS-H-006198	YN. SAKAMOTO	TS. MIYAZAKI	11.10.12	
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.		ELC4-162738-11	
	SPECIFICATION SHEET		PART NO.	MDF7-*S-2. 54DSA (56)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	 1/1		