

Apr.1.2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾		
	VOLTAGE	200 V AC	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX (NOT DEWED)		
	CURRENT	1 A	STORAGE 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	100 mA (DC or 1000 Hz).	15 mΩ MAX.	x	-		
INSULATION RESISTANCE	500 V DC.	1000 MΩ MIN.	x	-		
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x	-		
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND EXTRACTION FORCES	□0.635±0.002mm BY STEEL GAUGE	INSERTION FORCE: 3.43 N MAX EXTRACTION FORCE: 0.39 N MIN	x	-		
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 15 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-		
VIBRATION	FREQUENCY 10 TO 55 TO 10Hz, APPROX 5min SINGLE AMPLITUDE : 0.75 mm, 10CYCLES FOR 3 AXIAL DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-		
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 BOTH AXIAL DIRECTIONS.		x	-		
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 15 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +125 °C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2~3MIN)		x	-		
DRY HEAT	EXPOSED AT 85°C, 96h	① CONTACT RESISTANCE: 15 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-		
COLD	EXPOSED AT -55°C, 96h		x	-		
SULFUR DIOXIDE	EXPOSED AT 25±2°C, 75±5%RH, 25PPM FOR 96 h.(TEST STANDARD :JIS C 60068)	① CONTACT RESISTANCE: 15 mΩ MAX. ② NO HEAVY CORROSION.	x	-		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		x	-		
COUNT		DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.			APPROVED	HT. YAMAGUCHI	20181211	
			CHECKED	HT. YAMAGUCHI	20181211	
			DESIGNED	MT. ITANO	20181211	
			DRAWN	TS. HORI	20181207	
Unless otherwise specified, refer to IEC 60512.			DRAWING NO.		ELC-386209-00-00	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-386209-00-00	
	SPECIFICATION SHEET		PART NO.	HIF3M*W-*D-2. 54R (63)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.			1/1