

Apr.1.2019 Copyright 2019 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.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△				. .	△				. .
△				. .	△				. .
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C			STORAGE TEMPERATURE RANGE	— °C TO — °C			
	VOLTAGE	300 V			OPERATING HUMIDITY RANGE	— % TO — %			
	CURRENT	3 A			APPLICABLE CABLE	AWG 24			
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			○	○
MARKING		CONFIRMED VISUALLY.						○	○
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			15 mΩ MAX.			○	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.		20 mV MAX. mA (DC OR 1000 Hz).						—	—
INSULATION RESISTANCE		500 V DC			1000 MΩ MIN.			○	—
VOLTAGE PROOF		1000 V AC FOR 1 min			NO FLASHOVER OR BREAKDOWN.			○	—
MECHANICAL CHARACTERISTICS									
CONTACT INSERTION AND EXTRACTION FORCES		0.635±0.002 BY STEEL GAUGE.			INSERTION FORCE 2.9 N MAX. EXTRACTION FORCE 0.4 N MIN.			○	—
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.			—	—
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS			① CONTACT RESISTANCE: 15 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	—
VIBRATION		FREQUENCY 10 TO 55 Hz, TOTAL AMPLITUDE 1.5 mm, - m/s ² AT 2 h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 15 mΩ MAX.			○	—
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTION.			③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	—
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY-STATE)		EXPOSED AT 40±2 °C, 90 TO 95 % RH, 96 h.			① CONTACT RESISTANCE: 15 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	—
DAMP HEAT, CYCLIC		EXPOSED AT °C, TO °C, % CYCLES, TOTAL h. TO h.			① CONTACT RESISTANCE: mΩ MAX. ② INSULATION RESISTANCE: MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			—	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -65→5 TO 35→125→5 TO 35 °C TIME 30→10 TO 15→30→10 TO 15 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 15 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	—
DRY HEAT		EXPOSED AT °C, h.			① CONTACT RESISTANCE: mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			—	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 15 mΩ MAX. ② NO HEAVY CORROSION.			○	—
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)						○	—
SULPHUR DIOXIDE		EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-39)						—	—
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
Unless otherwise specified, refer to JIS C 5402.				<i>H. Kawachi</i> '94.9.6	<i>H. Kawachi</i> '94.4.6	<i>M. Nohamura</i> '94.4.7	<i>M. Nohamura</i> '94.4.7		
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. HIF4-40D-3.18R		
CODE NO. (OLD) CL		DRAWING NO. ELC4-016957			CODE NO. CL 563-0029-6			1	1

TO
HM