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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
△					△				
△					△				
<b>APPLICABLE STANDARD</b>									
<b>RATING</b>	OPERATING TEMPERATURE RANGE	-			STORAGE TEMPERATURE RANGE	- 10 °C TO 60 °C			
	VOLTAGE	-			APPLICABLE CONNECTOR	-			
	CURRENT	-			APPLICABLE CABLE	UL1571,28 AWG, OUTER DIAMETER: φ0.58			
<b>SPECIFICATIONS</b>									
<b>ITEM</b>		<b>TEST METHOD</b>			<b>REQUIREMENTS</b>			<b>QT</b> <b>AT</b>	
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			<input type="radio"/> <input type="radio"/>	
MARKING		CONFIRMED VISUALLY.						<input type="radio"/> <input type="radio"/>	
<b>ELECTRICAL CHARACTERISTICS</b>									
CONTACT RESISTANCE		mA (DC OR 1000 Hz).			mΩ MAX.			- -	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		mV MAX, mA(DC OR 1000 Hz).			mΩ MAX. CONTACT RESISTANCE OF GROUND FITTING: mΩ MAX.			- -	
INSULATION RESISTANCE		V DC.			MΩ MIN.			- -	
VOLTAGE PROOF		V AC FOR min.			NO FLASHOVER OR BREAKDOWN.			- -	
<b>MECHANICAL CHARACTERISTICS</b>									
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE.			INSERTION FORCE: N MAX. EXTRACTION FARCE: N MIN.			- -	
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: N MAX. EXTRACTION FARCE: N MIN.			- -	
MECHANICAL OPERATION		TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: mΩ MAX. CONTACT RESISTANCE OF GROUND FITTING: mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			- -	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, - m/s <sup>2</sup> AT 50 min, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF - μs. ② CONTACT RESISTANCE: - mΩ MAX. CONTACT RESISTANCE OF GROUND FITTING: - mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○ -	
SHOCK		490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF - μs. ② CONTACT RESISTANCE: - mΩ MAX. CONTACT RESISTANCE OF GROUND FITTING: - mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○ -	
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: - mΩ MAX. CONTACT RESISTANCE OF GROUND FITTING: - mΩ MAX. ② INSULATION RESISTANCE: - MΩ MIN ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○ -	
<b>REMARKS</b>					<b>DRAWN</b>	<b>DESIGNED</b>	<b>CHECKED</b>	<b>APPROVED</b>	<b>RELEASED</b>
NOTE1: EXPECT CONSTRUCTION,APPLY THESE SPECIFICATION TO PAIR DF9M-31S-1R-PA WITH DF9M-31S-1R-PB.					<i>J. Gai</i>	<i>J. Gai</i>	<i>J. Ona</i>	<i>M. Yamamoto</i>	
Unless otherwise specified, refer to MIL-STD-1344.					'96.12.4	'96.12.4	'96.12.10	'96.12.13	
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test									
<b>HRS HIROSE ELECTRIC CO., LTD.</b>					<b>SPECIFICATION SHEET</b>			<b>PART NO.</b>	
					DF9M-31S-1R-PB			1	
CODE NO.(OLD)		DRAWING NO.			CODE NO.			2	
CL		ELC4-160592-01			CL540-0233-9				

TO

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## SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
<b>ENVIRONMENTAL CHARACTERISTICS</b>				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55→15 TO 35→ 85→15 TO 35 °C TIME: 30→ 5 MAX→ 30→ 5 MAX min UNDER 5 CYCLES.	① CONTACT RESISTANCE: - mΩ MAX. CONTACT RESISTANCE OF GROUND FITTING: - mΩ MAX. ② INSULATION RESISTANCE: - MΩ MIN ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	-

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	<i>J. Gai</i> '96.12.4	<i>J. Gai</i> '96.12.4	<i>J. Ona</i> '96.12.10	<i>M. Yamamoto</i> '96.12.13	

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

<b>HRS</b> HIROSE ELECTRIC CO., LTD.	<b>SPECIFICATION SHEET</b>	PART NO. DF9M-31S-1R-PB
CODE NO.(OLD) CL	DRAWING NO. ELC4-160592-01	CODE NO. CL540-0233-9

TO

