

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

TO

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
Δ					Δ				
Δ					Δ				
Δ					Δ				

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE	STORAGE TEMPERATURE RANGE
RATING		-35 °C TO +85 °C(NOTE1)	-10 °C TO +60 °C
VOLTAGE	250 V AC		
CURRENT	3 A		

SPECIFICATIONS	
ITEM	TEST METHOD
CONSTRUCTION	REQUIREMENTS
GENERAL EXAMINATION	Q T A T

GENERAL EXAMINATION	MARKING	TEST METHOD	REQUIREMENTS	Q T A T
VISUALLY AND BY MEASURING INSTRUMENT.	CONFIRMED VISUALLY.			X X X

ELECTRIC CHARACTERISTICS		TEST METHOD	REQUIREMENTS	Q T A T
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		30 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		TEST METHOD	REQUIREMENTS	Q T A T
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 30 mΩ 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 1 μs. 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 1 μs. ② CONTACT RESISTANCE: 30 mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X

ENVIRONMENTAL CHARACTERISTICS		TEST METHOD	REQUIREMENTS	Q T A T
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35 °C TIME 30 → 5 MAX → 30 → 5 MAX min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 30 mΩ 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 ~ 95 %, 96 h.		① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X
RESISTANCE TO SOLDERING HEAT	1) AUTOMATIC SOLDERING (FLOW) SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 5 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 300 °C, SOLDERING TIME : 3 sec. NO STRENGTH ON CONTACT.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR INSERTION DURATION, 5 s.		SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.	X

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE: INCLUDE THE TEMPERATURE RISING BY CURRENT.	F. Matsuki	<i>H. Uemura</i>	<i>T. Miyazaki</i>	<i>T. Owa</i>	
Unless otherwise specified, refer to JIS C 5402.	04.03.25	04.03.25	04.03.25	04.03.29	
Note Q1:Qualification Test AT:Assurance Test X:Applicable Test					

<b>HRS</b> HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. DF1BD.*P-2.5DSA(05)
CODE NO.(OLD) CL	DRAWING NO. ELC4-071913-01	PART NO. CL541
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