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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 |
|-------|--------------------------|----|------|------|-------|--------------------------|----|------|------|
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| APPLICABLE STANDARD | | | | | |
|---------------------|-----------------------------|-----------------|---------------------------|----------|--|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C | STORAGE TEMPERATURE RANGE | °C TO °C | |
| | VOLTAGE | 250 V AC | OPERATING HUMIDITY RANGE | % TO % | |
| | CURRENT | 0.5 A | APPLICABLE CABLE | | |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

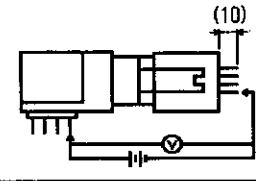
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|---------------------|---------------------------------------|-----------------------|---|---|
| CONSTRUCTION | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | ○ | ○ |
| MARKING | CONFIRMED VISUALLY. | | ○ | ○ |

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| ELECTRIC CHARACTERISTICS | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). 1 | 35 mΩ MAX. | ○ | ○ |
| INSULATION RESISTANCE | 500 V DC. | 500 MΩ MIN. | ○ | ○ |
| VOLTAGE PROOF | 500 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | ○ | ○ |

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| MECHANICAL CHARACTERISTICS | | | | |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | 31.4 N MIN. 117.6 N MAX. | ○ | - |
| MECHANICAL OPERATION | 1000 TIMES INSERTIONS AND EXTRACTIONS. 1 | ① CONTACT RESISTANCE: 35 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○ | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2h, FOR 3 DIRECTIONS. | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○ | - |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS. | | ○ | - |

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| ENVIRONMENTAL CHARACTERISTICS | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → 5~35 → 85 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES. | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○ | - |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 °C, 90~95 %, 96 h. | INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY.) 100 MΩ MIN. (AT DRY.) | ○ | - |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | NO HEAVY CORROSION. | ○ | - |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S. | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS. | ○ | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 °C FOR IMMERSION, DURATION 3 ± 1 S. | MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING. | ○ | - |

NOTE. 1 MEASUREMENT POINT OF CONTACT RESISTANCE



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| REMARKS | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | <i>T. Hamaya</i> | <i>T. Hamaya</i> | <i>Y. Enami</i> | <i>H. Miura</i> | |
| Unless otherwise specified, refer to JIS C 5402. | 03.10.21 | 03.10.21 | 03.10.22 | 03.10.22 | |

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| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test | | PART NO. DX10BM-80S(50) | |
| HRS HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | | |
| CODE NO.(OLD) CL | DRAWING NO. ELC4-040391-01 | CODE NO. CL230-5009-0-50 | 1/1 |

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