

The product's outlined important specifications

576/0001/4

Product name: magnetic relays

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| Product name: magnetic relays | Quality group: electronic | Code:12131,12111,12113,12161,12171,12112 |
| Technical No.---- | Map number and index 9253798380,9458628780,7905522200 | Review date:---- |

| R | Important parameters | Value/tolerance | Importance level | Importance reason |
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| 1 | Physical specifications | No outward bug | B | The ingress of dust and liquid into the relay and reducing its durability(3) |
| 2 | Dimension specifications | In accordance with the Peugeot maps or its references or the standard internal dimension, the height of the blades | B | Assembly ease (2) |
| 3 | Color of the relay | Yellow for the air conditioner system's relay, green for the contactor relay, and black for the rest | C | Identification capability in the customer line (2) |
| 4 | Geometrically producing the connector blades | In accordance with the standardNFR13431 | B | Assembly ease (2) |
| 5 | The quality and type of the connector blades' cover | The blade should have been made of copper or brass; the blade's cover should have been made of silver with the thickness of 1mm at least or tin in accordance with the following standard B154210 Sn4 | B | The lowered voltage drop and jack strength and not to corrupt in the humid, especially coastal, climate. (3) |
| 6 | Set-up specific voltage | In the normal mode: $\leq 8v$ (16v is appropriate for the | A | Relay function guaranteed by |

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| | | 24v relay) and after 30 min of being heated through voltage, it must be $\leq 10.5v$ (21v for the 24v relay). | | applying the voltage to the coil (2) (3) |
| 7 | Disconnect voltage | For the 24v relay($1.5v < U < 11v$) ($1.5v < U < 5.5v$) | A | Turning back of the relay to the normal mode when cutting the prompt command (2) (3) |
| 8 | The assimilated power | 2.8W | C | The increased assimilated power causes damage in the steering system of the relay function (3) |
| 9 | Dielectric strength | Not to find the short circuit (tolerance of 500VAC) | C | Isolation of the command circuit and strength circuit of the relay (unavailable circuit) (3) |
| 10 | Insulation resistance | 20Mega Ohm | C | Isolation of the command circuit and strength circuit of the relay (unavailable circuit) (3) |
| 11 | Voltage drop | $< 67mv/10A$ | B | Reduced electric power loss in the relay circuit (corrosion of platinum) (3) |
| 12 | Resistance against overload | Meeting the requirements of the tests 6,7,10,13 | B | The relay function guaranteed when the temporary connection occurs (3) |
| 13 | Mechanical strength of the connector blades | No mechanical and electrical defect and meeting the requirements (100 N for pressure, 70 N for stretching, and 20 and 50 N for the alternative requirements) | B | No function caused by applying the power to the jack while assembly/disassembly (2) (3) |
| 14 | The power of connection between the insole and lid of the relay | No distinction from the lid caused by the stretch or pressure power of 80N | B | No distinction from the body and penetration of dust and liquid into the relay and reduction of |

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| | | | | the relay's durability (2) (3) |
| 15 | Vibration resistance | When performing the test, the voltage drop should not be more than 500mv at any moment and the average voltage drop should be less than 80mv per 10amp. No defect in relays and supplying the requirements of the tests 6,7,9,11 | C | The relay's proper function despite the vehicle's vibration in the road and the engine's vibration (3) |
| 16 | Cold resistance | After ending the test applying a 10v voltage (20v for the 24v relay) in the temperature of -30±2 degree to the coil, the requirements of the 11th test must be provided. | B | Proper function in the extreme cold (3) |
| 17 | Heat resistance | At the 110 ° C temperature the excitation voltage ≤ 10.5v (21v for the 24v relay), the requirements of the 11th test must be met after the temperature fixed. | B | No corrupt in the high temperatures (3) |
| 18 | Thermal shock resistance | Meeting the requirements of the tests 6,7,9,11 And absence of any visible defects | B | No corrupt in the relay caused by sudden temperature change (3) |
| 19 | Resistance to the chemical and environmental factors | The relay normal operation, no apparent drawback caused by the alcohols, fuels and oils that are commonly used in the vehicles. | B | No apparent deformation and proper function of the relay despite pour of the materials on it (3) |
| 20 | Corrosion resistance (salt spray) | The corrosion level in accordance with the standard D171058, paragraph 4, meeting the requirements of the tests 6,7,9 | B | No corruption in the humid, especially coastal, climate (3) |
| 21 | Sealing | Meeting the 9th testing requirements, absence of water particles inside the relays | B | Ensuring of the evaporation of water inside the relay in order to keep its components from |

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| | | | | rusting (For example, motor laundering) (3) |
| 22 | Durability | Proper function of the relay, the remaining metal state in contact must be acceptable, meeting the requirements of the tests 9 to 12 and the tests 6 and 7 with a 10% tolerance and the 11th test with a 50% tolerance. | B | High useful Life for lowering the maintenance costs for the vehicles (3) |
| 23 | Strength of the preservative handle (the wiring harness relay and the handled relay) | 80N | B | Connection of the relay to the radiator fan frame (2)(3) |
| Consideration | | Producer | Verifier | |

- Every parameter is placed in one of the three categories of A, B, and C, respective to its identified importance.
- 1 refers to the supplier's assembly line, 2 refers to the auto maker's assembly line, and 3 refers to the final customer.