



LOGO! DM8 230R expansion module, PS//O: 230V/230V/relay, 2 MW, 4 DI/4 DO for LOGO! 8

| Installation type/mounting                             |   |
|--|---|
| Mounting   | on 35 mm DIN rail, 2 spacing units wide   |
| Supply voltage   |   |
| Rated value (DC)                                       |   |
| • 115 V DC   | Yes                                       |
| • 230 V DC   | Yes                                       |
| permissible range, lower limit (DC)                    | 100 V                                     |
| permissible range, upper limit (DC)                    | 253 V                                     |
| Rated value (AC)                                       |   |
| • 115 V AC   | Yes                                       |
| • 230 V AC   | Yes                                       |
| Line frequency   |   |
| • permissible range, lower limit                       | 47 Hz                                     |
| • permissible range, upper limit                       | 63 Hz                                     |
| Digital inputs   |   |
| Number of digital inputs                               | 4   |
| Input voltage  |   |
| • Type of input voltage                                | AC/DC                                     |
| • for signal "0"                                       | < 40 V AC, < 30 V DC                      |
| • for signal "1"                                       | > 79 V AC, > 79 V DC                      |
| Input current  |   |
| • for signal "0", max. (permissible quiescent current) | 0.06 mA; 0.05 mA with AC, 0.06 mA with DC |
| • for signal "1", typ.                                 | 0.13 mA                                   |
| Input delay (for rated value of input voltage)         |   |
| for standard inputs                                    |   |
| — at "0" to "1", max.                                  | 40 ms                                     |
| — at "1" to "0", max.                                  | 75 ms                                     |
| Digital outputs  |   |
| Number of digital outputs                              | 4; Relays                                 |
| Short-circuit protection                               | No  |
| Controlling a digital input                            | Yes                                       |
| Switching capacity of the outputs                      |   |
| • on lamp load, max.                                   | 1 000 W; 500 W at 115V AC                 |
| Output current   |   |
| • for signal "1" rated value                           | 5 A                                       |
| • for signal "1" minimum load current                  | 100 mA                                    |
| Parallel switching of two outputs                      |   |
| • for uprating   | No  |
| Switching frequency                                    |   |
| • with resistive load, max.                            | 2 Hz                                      |

|  |                               |
|--|-------------------------------|
| • with inductive load, max.                      | 0.5 Hz                        |
| • mechanical, max.                               | 10 Hz                         |
| <b>Relay outputs</b>                             |                               |
| Switching capacity of contacts                   |                               |
| — with inductive load, max.                      | 3 A                           |
| — with resistive load, max.                      | 5 A                           |
| <b>EMC</b>                                       |                               |
| Emission of radio interference acc. to EN 55 011 |                               |
| • Limit class B, for use in residential areas    | Yes                           |
| <b>Degree and class of protection</b>            |                               |
| IP degree of protection                          | IP20                          |
| <b>Standards, approvals, certificates</b>        |                               |
| CE mark  | Yes                           |
| CSA approval                                     | Yes                           |
| UL approval                                      | Yes                           |
| FM approval                                      | Yes                           |
| developed in accordance with IEC 61131           | Yes                           |
| according to VDE 0631                            | Yes                           |
| Marine approval                                  | Yes                           |
| <b>Ambient conditions</b>                        |                               |
| Ambient temperature during operation             |                               |
| • min.   | 0 °C; ES03 and higher: -20 °C |
| • max.   | 55 °C                         |
| <b>Dimensions</b>                                |                               |
| Width  | 35.5 mm                       |
| Height   | 90 mm                         |
| Depth  | 58 mm                         |

**last modified:** 4/25/2024 