



LOGO! DM8 12/24R expansion module, PS/I/O: 12, 24V/12V/24V/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)                                       |                                         |
| • 12 V DC                                              | Yes                                     |
| • 24 V DC                                              | Yes                                     |
| permissible range, lower limit (DC)                    | 10.8 V                                  |
| permissible range, upper limit (DC)                    | 28.8 V                                  |
| Digital inputs                                         |                                         |
| Number of digital inputs                               | 4                                       |
| Input voltage                                          |                                         |
| • Type of input voltage                                | DC                                      |
| • for signal "0"                                       | < 5 V DC                                |
| • for signal "1"                                       | > 8.5 V                                 |
| Input current                                          |                                         |
| • for signal "0", max. (permissible quiescent current) | 0.88 mA                                 |
| • for signal "1", typ.                                 | 1.5 mA                                  |
| Input delay (for rated value of input voltage)         |                                         |
| for standard inputs                                    |                                         |
| — at "0" to "1", max.                                  | 1.5 ms                                  |
| — at "1" to "0", max.                                  | 1.5 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                                 |
| 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                                   |
| Relay outputs                                          |                                         |
| Switching capacity of contacts                         |                                         |
| — with inductive load, max.                            | 3 A                                     |
| — with resistive load, max.                            | 5 A                                     |

| EMC                                                            |                                                                                                |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Emission of radio interference acc. to EN 55 011               |                                                                                                |
| • Limit class B, for use in residential areas                  | Yes                                                                                            |
| Degree and class of protection                                 |                                                                                                |
| IP degree of protection                                        | IP20                                                                                           |
| Standards, approvals, certificates                             |                                                                                                |
| CE mark                                                        | Yes                                                                                            |
| CSA approval                                                   | Yes                                                                                            |
| UL approval                                                    | Yes                                                                                            |
| FM approval                                                    | Yes                                                                                            |
| developed in accordance with IEC 61131                         | Yes                                                                                            |
| Marine approval                                                | Yes                                                                                            |
| Ecological footprint                                           |                                                                                                |
| • environmental product declaration                            | Yes                                                                                            |
| Global warming potential                                       |                                                                                                |
| — global warming potential, (total) [CO2 eq]                   | 59.1 kg                                                                                        |
| — global warming potential, (during production) [CO2 eq]       | 5.82 kg                                                                                        |
| — global warming potential, (during operation) [CO2 eq]        | 53.6 kg                                                                                        |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.373 kg                                                                                      |
| Ambient conditions                                             |                                                                                                |
| Ambient temperature during operation                           |                                                                                                |
| • min.                                                         | -20 °C; No condensation                                                                        |
| • max.                                                         | 55 °C                                                                                          |
| Dimensions                                                     |                                                                                                |
| Width                                                          | 35.5 mm                                                                                        |
| Height                                                         | 90 mm                                                                                          |
| Depth                                                          | 58 mm                                                                                          |
| last modified:                                                 | 12/10/2024  |