SIEMENS

## Data sheet 6ED1055-1HB00-0BA2



LOGO! DM8 24R expansion module, PS/I/O: 24V/24V/relay, 2 MW 4 DI/4 DO, AC/DC/NPN input for LOGO! 8

| | |
|---|---|
| **Installation type/mounting** | |
| Mounting | on 35 mm DIN rail, 2 spacing units wide |
| **Supply voltage** | |
| Rated value (DC) | |
| ● 24 V DC | Yes |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Rated value (AC) | |
| ● 24 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" | < 5 V AC/DC |
| ● for signal "1" | > 12 V AC/DC |
| Input current | |
| ● for signal "0", max. (permissible quiescent current) | 1.1 mA |
| ● for signal "1", typ. | 2.63 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. | 15 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 |


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| | |
|---|---|
| ● 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 |
| according to VDE 0631 | 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 |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-04 |
| eClass | 14 | 27-24-22-04 |
| eClass | 12 | 27-24-22-04 |
| eClass | 9.1 | 27-24-22-04 |
| eClass | 9 | 27-24-22-04 |
| eClass | 8 | 27-24-22-04 |
| eClass | 7.1 | 27-24-22-04 |
| eClass | 6 | 27-24-22-04 |
| ETIM | 10 | EC001419 |
| ETIM | 9 | EC001419 |
| ETIM | 8 | EC001419 |
| ETIM | 7 | EC001419 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**


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Miscellaneous

Metrological Approval

**General Product Approval**

China RoHS

| General Product Approval | For use in hazardous locations | | | | Maritime application |
|---|---|---|---|---|---|
| Manufacturer Declaration | CCC-Ex | | FM | CCC-Ex | |

**Maritime application**

| | | | | | |
|---|---|---|---|---|---|
| | | | NK / Nippon Kaiji Kyokai | CCS (China Classification Society) | KR (Korean Register of Shipping) |

**Environment**

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