

SIPLUS LOGO! DM8 230 V -40...+70°C start up -25°C with conformal coating based on 6ED1055-1FB00-0BA2 . Expansion module, PS/I/O: 230V/230V/relay, 2 MW, 4 DI/4 DO for LOGO! 8



Figure similar

| 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                                       |

|  |   |
|--|---|
| <b>Input voltage</b>                                   |   |
| • Type of input voltage                                | AC/DC                                     |
| • for signal "0"                                       | < 40 V AC, < 30 V DC                      |
| • for signal "1"                                       | > 79 V AC, > 79 V DC                      |
| <b>Input current</b>                                   |   |
| • for signal "0", max. (permissible quiescent current) | 0.06 mA; 0.05 mA with AC, 0.06 mA with DC |
| • for signal "1", typ.                                 | 0.37 mA                                   |
| <b>Input delay (for rated value of input voltage)</b>  |   |
| for standard inputs                                    |   |
| — at "0" to "1", max.                                  | 40 ms                                     |
| — at "1" to "0", max.                                  | 75 ms                                     |
| <b>Digital outputs</b>                                 |   |
| Number of digital outputs                              | 4; Relays                                 |
| Short-circuit protection                               | No  |
| Controlling a digital input                            | Yes                                       |
| <b>Switching capacity of the outputs</b>               |   |
| • on lamp load, max.                                   | 1 000 W; 500 W at 115V AC                 |
| <b>Output current</b>                                  |   |
| • for signal "1" rated value                           | 5 A                                       |
| • for signal "1" minimum load current                  | 100 mA                                    |
| <b>Parallel switching of two outputs</b>               |   |
| • for uprating   | No  |
| <b>Switching frequency</b>                             |   |
| • 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>                  |   |
| Degree of protection acc. to EN 60529                  |   |
| • IP20   | Yes                                       |
| <b>Standards, approvals, certificates</b>              |   |
| CE mark  | Yes                                       |
| CSA approval   | No  |
| UL approval  | No  |

|  |     |
|--|-----|
| FM approval                            | No  |
| developed in accordance with IEC 61131 | Yes |
| according to VDE 0631                  | Yes |
| Marine approval                        | No  |

### Ambient conditions

#### Ambient temperature during operation

- min. -40 °C; = Tmin; Startup @ -25 °C
- max. 70 °C; = Tmax; Tmax > +55 °C max. load 3 A per relay or max. total current 10 A
- At cold restart, min. -25 °C

#### Ambient temperature during storage/transportation

- min. -40 °C
- max. 70 °C

#### Altitude during operation relating to sea level

- Installation altitude above sea level, max. 2 000 m
- Ambient air temperature-barometric pressure-altitude Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m)

#### Relative humidity

- With condensation, tested in accordance with IEC 60068-2-38, max. 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation

#### Resistance

##### Coolants and lubricants

- Resistant to commercially available coolants and lubricants Yes; Incl. diesel and oil droplets in the air

##### Use in stationary industrial systems

- to biologically active substances according to EN 60721-3-3 Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); \*
- to mechanically active substances according to EN 60721-3-3 Yes; Class 3S4 incl. sand, dust, \*

##### Use on ships/at sea

- to biologically active substances according to EN 60721-3-6 Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
- to chemically active substances according to EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); \*
- to mechanically active substances according to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; \*

#### Remark

- Note regarding classification of environmental conditions acc. to EN 60721 \* The supplied plug covers must remain in place over the unused interfaces during operation!

#### Conformal coating

- Coatings for printed circuit board assemblies acc. to EN 61086 Yes; Class 2 for high availability

- Military testing according to MIL-I-46058C, Amendment 7

Yes; Discoloration of coating possible during service life

#### Dimensions

|                       |            |
|-----------------------|------------|
| Width                 | 35.5 mm    |
| Height                | 90 mm      |
| Depth                 | 58 mm      |
| <b>last modified:</b> | 12/25/2018 |