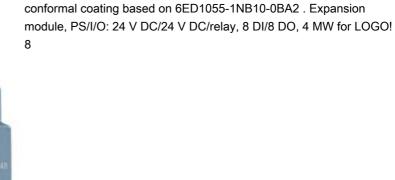
Data sheet



SIPLUS LOGO! DM16 24R -40...+70 °C start up -25°C with



| Installation type/mounting | |
|--|---|
| Mounting | on 35 mm DIN rail, 4 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 | No |
| Digital inputs | |
| Number of digital inputs | 8 |
| Input voltage | |
| Type of input voltage | DC |
| • for signal "0" | < 5 V DC |
| • for signal "1" | > 12 V DC |
| Input current | |
| for signal "0", max. (permissible quiescent current) | 0.85 mA |

| ● for signal "1", typ. | 3.5 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 | 0. Delaye |
| Number of digital outputs | 8; Relays |
| Short-circuit protection | No Yes |
| Controlling a digital input | 165 |
| Switching capacity of the outputs | 1 000 W |
| • on lamp load, max. | 1 000 W |
| Output current | . A |
| • 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 | |
| Degree of protection acc. to EN 60529 | |
| • IP20 | Yes |
| Standards, approvals, certificates | |
| CE mark | Yes |
| developed in accordance with IEC 61131 | Yes |
| according to VDE 0631 | Yes |
| Marine approval | Yes |
| 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 |
| 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. | 5 000 m |
| Ambient air temperature-barometric pressure- altitude | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 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 | 71.5 mm |
| Height | 90 mm |
| Depth | 58 mm |
| last modified: | 12/25/2018 |