



Figure similar

SIPLUS LOGO! DM8 24R based on 6ED1055-1HB00-0BA2 with conformal coating, -40...+70 °C, start up -25 °C, expansion module, power supply / I/O: 24 V/24 V/relay, 2 MW 4 DI/4 DQ, AC/DC/NPN input for LOGO! 8

| General information | |
|--|---|
| based on | 6ED1055-1HB00-0BA2 |
| 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. | 5.5 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. | 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 | |

| | |
|--|---|
| <ul style="list-style-type: none"> • with resistive load, max. • with inductive load, max. • mechanical, max. | 2 Hz 0.5 Hz 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 |
| 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; incl. condensation / frost permitted (no commissioning under condensation conditions) |
| 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; * |
| Usage in industrial process technology | |
| — Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * 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 reliability |
| • Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| • Military testing according to MIL-I-46058C, Amendment 7 | Yes; Discoloration of coating possible during service life |
| • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A |

| Dimensions | |
|------------|---------|
| Width | 35.5 mm |
| Height | 90 mm |
| Depth | 58 mm |

last modified:

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