

SIPLUS ET 200SP, digital output module, DQ 8x 24VDC/0.5A
 Standard, -40...+70 °C Start-up -25 °C with conformal coating based
 on 6ES7132-6BF00-0BA0 . suitable for BU type A0, Color code
 CC02, Module diagnostics

General information

Product type designation 230 RCE

Redundancy

• Redundancy capability Yes

Supply voltage

permissible range, lower limit (DC) 100 V

permissible range, upper limit (DC) 253 V

Input current

Current consumption, max. 40 mA

Address area

Address space per module

• Address space per module, max. 32 byte

Digital outputs

Number of digital outputs 4; Relays

Short-circuit protection No; external fusing necessary

• Response threshold, typ. 0.7 to 1.3 A

Limitation of inductive shutdown voltage to Typ. L+ (-50 V)

Controlling a digital input Yes

Switching capacity of the outputs

• with resistive load, max. 0.5 A

• on lamp load, max. 5 W

Load resistance range

• lower limit 48 Ω

• upper limit 12 kΩ

Output current

• for signal "1" rated value 0.5 A

Output delay with resistive load

• "0" to "1", max. 50 μs

• "1" to "0", max. 100 μs

Parallel switching of two outputs

• for uprating No

• for redundant control of a load Yes

| Switching frequency | |
|---|---|
| • with resistive load, max. | 100 Hz |
| • with inductive load, max. | 2 Hz |
| • on lamp load, max. | 10 Hz |
| Relay outputs | |
| Switching capacity of contacts | |
| — with inductive load, max. | 3 A |
| — with resistive load, max. | 10 A |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostic messages | |
| • Monitoring the supply voltage | Yes |
| • Wire-break | Yes |
| • Short-circuit | Yes |
| • Group error | Yes |
| Permissible potential difference | |
| between different circuits | 75 V DC/60 V AC |
| Isolation | |
| Isolation tested with | 707 V DC |
| Ambient conditions | |
| Ambient temperature during operation | |
| • horizontal installation, min. | -40 °C; = Tmin; Startup @ -25 °C |
| • horizontal installation, max. | 70 °C; = Tmax; > +60 °C max. total current 1.0 A |
| • vertical installation, min. | -40 °C; = Tmin; Startup @ -25 °C |
| • vertical installation, max. | 50 °C; = Tmax |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 3 000 m |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... Tmax -5K) at 795 hPa ... 701 hPa (+2 000 m ... +3 000 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
— to mechanically 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); *
Yes; Class 3S4 incl. sand, dust, *

Use on ships/at sea

— to biologically active substances according to EN 60721-3-6
— to chemically active substances according to EN 60721-3-6
— to mechanically active substances according to EN 60721-3-6

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

from supply voltage 1L+

— Note regarding classification of environmental conditions acc. to EN 60721

* The supplied plug covers must remain in place over the unused interfaces during operation!

Dimensions

| | |
|--------|---------|
| Width | 71.5 mm |
| Height | 90 mm |
| Depth | 60 mm |

Weights

| | |
|-----------------|------|
| Weight, approx. | 28 g |
|-----------------|------|

last modified: 05/18/2018