

SIPLUS ET 200SP, digital output module, DQ 16x 24VDC/0.5A
Standard, -40...+70 °C with conformal coating based on 6ES7132-
6BH00-0BA0 . suitable for BU type A0, Color code CC00, Module
diagnostics

General information

Product type designation	DQ 16x24VDC/0.5A ST
--------------------------	---------------------

Supply voltage

Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V

Power loss

Power loss, typ.	1 W
------------------	-----

Address area

Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	32 byte

Digital outputs

Number of digital outputs	16; > +60 °C max. total current 1.0 A
Current-sourcing	Yes
Short-circuit protection	
<ul style="list-style-type: none"> 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

- | | |
|---|--------------|
| <ul style="list-style-type: none"> with resistive load, max. on lamp load, max. | 0.5 A
5 W |
|---|--------------|

Load resistance range

- | | |
|--|---------------|
| <ul style="list-style-type: none"> lower limit upper limit | 48 Ω
12 kΩ |
|--|---------------|

Output current

- | | |
|--|-------|
| <ul style="list-style-type: none"> for signal "1" rated value | 0.5 A |
|--|-------|

Output delay with resistive load

- | | |
|--|-----------------|
| <ul style="list-style-type: none"> "0" to "1", max. "1" to "0", max. | 50 μs
100 μs |
|--|-----------------|

Parallel switching of two outputs

- | | |
|---|-----------|
| <ul style="list-style-type: none"> for uprating for redundant control of a load | No
Yes |
|---|-----------|

Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
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
• horizontal installation, max.	70 °C; = Tmax; > +60 °C max. total current 1.0 A
• vertical installation, min.	-40 °C; = Tmin
• vertical installation, max.	50 °C; = Tmax
Altitude during operation relating to sea level	
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 080 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	
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 according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Dimensions	

Width	15 mm
Height	73 mm
Depth	58 mm

Weights

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

last modified: 05/18/2018