SIEMENS

SIPLUS ET 200SP, DIGITAL OUTPUT MODULE,
DQ 4X24VDC/2A STANDARD,
-40 ... +70 DEGREES C WITH CONFORMAL COATING
BASED ON 6ES7132-6BD20-0BA0 . FITS TO BU-TYPE A0,
COLOR CODE CC02, MODULE DIAGNOSIS

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General information	
Product function	
I&M data	Yes
Engineering with	
STEP 7 TIA Portal configurable/integrated as of version	V11 SP2 with HSP0024 / -
STEP 7 configurable/integrated as of version	V5.5 SP2 with GSD file / -
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	60 mA ; without load
Power loss	
Power loss, typ.	1 W
Address area	
Address space per module	
Address space per module, max.	1 byte

Digital outputs	
Number of digital outputs	4 ; > +60 °C number of simultaneously controllable outputs max. 2 x 0.25 A or max. 4 x 0.125 A, max. total current 0.5 A
Short-circuit protection	Yes
Response threshold, typ.	2.8 to 5.2 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.	2 A
on lamp load, max.	10 W
Load resistance range	
lower limit	12 Ω
upper limit	3400 Ω
Output current	
for signal "1" rated value	2 A
for signal "0" residual current, max.	0.1 mA
Output delay with resistive load	
"0" to "1", max.	50 µs
"1" to "0", max.	100 µs
Parallel switching of 2 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
Total current of the outputs	
Max. current per module	8 A
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	200 m
Isochronous mode	
Isochronous mode (application synchronized up to terminal)	Yes
Jitter, max.	100 µs
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes

Diagnostic messages	
Monitoring the supply voltage	Yes
Wire-break	Yes
Short-circuit	Yes
Diagnostics indication LED	
Monitoring the supply voltage (PWR-LED)	Yes ; green PWR LED
Channel status display	Yes ; Green LED
for module diagnostics	Yes ; green/red DIAG LED
Galvanic isolation	
Galvanic isolation channels	
between the channels	No
between the channels and the backplane bus	Yes
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation tested with	707 V DC
Ambient conditions	
Operating temperature	
horizontal installation, min.	-40 °C
horizontal installation, max.	70 °C ; = Tmax; > +60 °C number of simultaneously controllable outputs max. 2 x 0.25 A or max. 4 x 0.125 A, max. total current 0.5 A
vertical installation, min.	-40 °C
vertical installation, max.	50 °C
Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
with condensation, tested in accordance with IEC 60068-2-38, maximum	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with 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/conformity with 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

Weights	
Weight, approx.	30 g
Status	Aug 4, 2014