

SIPLUS ET 200SP -40...+60 °C Start-up temperature:-25 °C with conformal coating based on 6ES7132-6GD50-0BA0 . SIMATIC ET 200SP, Signal relay module changeover contact, RQ 4x 24VDC/2A CO ST, suitable for BU type A0, Color code CC00, Module diagnostics

General information	
Product type designation	230 RCE
Firmware version	V1.0
<ul style="list-style-type: none"> FW update possible 	Yes
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC00
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> PROFIBUS as of GSD version/GSD revision 	GSD Revision 5
<ul style="list-style-type: none"> PROFINET as of GSD version/GSD revision 	GSDML V2.3
Operating mode	
<ul style="list-style-type: none"> DQ 	Yes
<ul style="list-style-type: none"> DQ with energy-saving function 	No
<ul style="list-style-type: none"> PWM 	No
<ul style="list-style-type: none"> Oversampling 	No
<ul style="list-style-type: none"> MSO 	No
Supply voltage	
permissible range, lower limit (DC)	100 V
permissible range, upper limit (DC)	253 V
Input current	
Current consumption (rated value)	50 mA
Current consumption, max.	40 mA
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	1 byte; + 1 byte for QI information
<ul style="list-style-type: none"> Inputs 	1 byte; With QI
<ul style="list-style-type: none"> Outputs 	1 byte
Digital outputs	
Type of digital output	Relays
Number of digital outputs	4; Relays

Short-circuit protection	No; external fusing necessary
Switching frequency	
• with resistive load, max.	2 Hz
Total current of the outputs	
• Current per channel, max.	2 A
• Current per module, max.	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	8 A
vertical installation	
— up to 60 °C, max.	8 A
Relay outputs	
• Number of relay outputs	4
• Rated supply voltage of relay coil L+ (DC)	24 V
• Current consumption of relays (coil current of all relays), max.	40 mA
Switching capacity of contacts	
— with inductive load, max.	3 A
— with resistive load, max.	10 A
— Thermal continuous current, max.	2 A
— Switching current, min.	1 mA; 5 V DC
— Rated switching voltage (DC)	24 V
— Rated switching voltage (AC)	24 V
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	200 m
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Monitoring the supply voltage	Yes
• Wire-break	No
• Short-circuit	No
• Group error	Yes
Diagnostics indication LED	
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED

- | | |
|---------------------------|-------------------------|
| • Channel status display | Yes; Green LED |
| • for channel diagnostics | No |
| • for module diagnostics | Yes; green/red DIAG LED |

Potential separation

Potential separation channels

- | | |
|--|-----|
| • between the channels | Yes |
| • between the channels and backplane bus | Yes |
| • between the channels and the power supply of the electronics | Yes |

Permissible potential difference

between different circuits	75 V DC/60 V AC (base isolation)
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Isolation

Isolation tested with	707 V DC (type test)
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Ambient conditions

Ambient temperature during operation

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| • horizontal installation, min. | -40 °C; = Tmin; Startup @ -25 °C |
| • horizontal installation, max. | 60 °C; = Tmax |

Altitude during operation relating to sea level

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| • 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 |
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Resistance

Coolants and lubricants

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| — Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air |
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Use in stationary industrial systems

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|---|--|
| — 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; * |

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.	30 g
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last modified: 05/18/2018