## **SIEMENS**

## **Data sheet**

## 6ES7132-6HD01-0BB1



SIMATIC ET 200SP, Relay module, RQ NO 4x 120V DC..230VAC/5A ST. 4 normally open contacts, isolated contacts, packing unit: 1 piece, fits to BU-type B0 and B1, Colour Code CC40, substitute value output, module diagnostics for: supply voltage

General information	
Product type designation	RQ 4x120 VDC 230 VAC/5 A NO ST
HW functional status	From FS02
Firmware version	V0.0
FW update possible	No
usable BaseUnits	BU type B0, B1
Color code for module-specific color identification plate	CC40
Product function	
● I&M data	Yes; I&M0 to I&M3
<ul> <li>Isochronous mode</li> </ul>	No
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V14
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3
<ul> <li>PCS 7 configurable/integrated from version</li> </ul>	V8.1 SP1
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.3
Operating mode	
• DQ	Yes
<ul> <li>DQ with energy-saving function</li> </ul>	No
• PWM	No
Oversampling	No
• MSO	No
Redundancy	
<ul> <li>Redundancy capability</li> </ul>	Yes
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 (rated value)	55 mA; without load
output voltage / header	
Rated value (AC)	230 V
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
• Inputs	+ 1 byte for QI information
Outputs	1 byte
Hardware configuration	

Automatic encoding	Yes
Mechanical coding element	Yes
Type of mechanical coding element	type C
Selection of BaseUnit for connection variants	
2-wire connection	BU type B1
3-wire connection	BU type B0
Digital outputs	
Type of digital output	Relays
Number of digital outputs	4
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
Parallel switching of two outputs	
• for logic links	Yes
• for uprating	No
for redundant control of a load	Yes
Switching frequency	
with resistive load, max.	2 Hz
with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, AC15), max.</li> </ul>	0.5 Hz
• on lamp load, max.	2 Hz
Total current of the outputs	
Current per channel, max.	5 A
Current per module, max.	20 A
Total current of the outputs (per module)	
horizontal installation	
— up to 50 °C, max.	20 A
— up to 60 °C, max.	16 A
vertical installation	
— up to 40 °C, max.	20 A
— up to 50 °C, max.	16 A
Relay outputs	
Number of relay outputs	4
Rated supply voltage of relay coil L+ (DC)	24 V
<ul> <li>Current consumption of relays (coil current of all relays), max.</li> </ul>	40 mA
external protection for relay outputs	Yes, with miniature fuse max. 6 A tripping current and quick-response tripping characteristic
<ul> <li>Number of operating cycles, max.</li> </ul>	7 000 000; see additional description in the manual
Switching capacity of contacts	
— with inductive load, max.	2 A; see additional description in the manual
— with resistive load, max.	5 A; see additional description in the manual
<ul> <li>Thermal continuous current, max.</li> </ul>	5 A; Max. 1 385 VA, 150 W
<ul><li>— Switching current, min.</li></ul>	100 mA; 5 V DC
<ul> <li>Rated switching voltage (DC)</li> </ul>	24 V DC to 120 V DC
<ul> <li>Rated switching voltage (AC)</li> </ul>	24V AC to 230V AC
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	No
Short-circuit	No
Diagnostics indication LED	
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green PWR LED

For infanile satus display for channel diagnostics for module diagnostics  Fotomatial separation  Potential separation channels between the channels between the channels and backplane bus between the channels and the power supply of the electronics  Permissible potential difference  between channels and backplane bus/supply voltage  240 V AC  Isolation tested with between channels and backplane bus/supply voltage  2 500 V DC (type test)  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient conditions  For installation, min. For installation, max. For installation altitude above sea level, max.  Dienth  For installation altitude above sea level, max.  Dienth  For installation altitude above sea level, max.  Dienth  For installation altitude above sea level, max.  For installation altitude above sea le	Channel status display	Yes; green LED
• for module diagnostics  Potential separation  Potential separation channels  • between the channels obstween the channels and backplane bus • between the channels and the power supply of the electronics  Permissible potential difference  between channels and backplane bus/supply voltage  5000 V DC (type test)  stated with  between backplane bus and supply voltage  707 V DC (type test)  Standards, approvals, certificates  Sultable for safety functions  Ambient conditions  Ambient conditions  Ambient temperature during operation  horizontal installation, min. horizontal installation, min. vertical installation, max. vertical installation, max. vertical installation relating to sea level Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  58 mm  Weights	. ,	
Potential separation  Potential separation channels  • between the channels and backplane bus • between the channels and the power supply of the electronics  Permissible potential difference  between channels and backplane bus/supply voltage  Isolation  Isolation tested with • between channels and backplane bus/supply voltage • between channels and backplane bus/supply voltage • between backplane bus and supply voltage  Standards, approvals, certificates  Suitable for safely functions  Ambient conditions  Ambient conditions  Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, max. • vertical installation, max.  • vertical installation, max.  • vertical installation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  Depth  58 mm  Weights	9	
Potential separation channels  • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics  Permissible potential difference  between channels and backplane bus/supply voltage  1 solation  Isolation tested with • between channels and backplane bus/supply voltage • between backplane bus and supply voltage • between backplane bus and supply voltage  • between backplane bus and supply voltage  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • horizontal installation, min. • vertical installation, max. • vertical installation, max.  50 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  Weights		res, greenned DIAG LED
between the channels and backplane bus between the channels and backplane bus between the channels and the power supply of the electronics  Permissible potential difference  between channels and backplane bus/supply voltage  Isolation  Solation  Solation  between channels and backplane bus/supply voltage  between backplane bus and supply voltage  707 V DC (type test)  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  horizontal installation, min.  horizontal installation, max.  on °C  vertical installation, max.  or °C  Altitude during operation relating to sea level  installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  Weights		
between the channels and backplane bus between the channels and the power supply of the electronics  Permissible potential difference  between channels and backplane bus/supply voltage  240 V AC  Isolation  Isolation tested with between channels and backplane bus/supply voltage between channels and backplane bus/supply voltage between backplane bus and supply voltage between backplane bus/supply voltage between backplane bus/supply voltage between channels and backplane bus/supply between channels and backplane		v.
between the channels and the power supply of the electronics  Permissible potential difference  between channels and backplane bus/supply voltage  Isolation  Isolation tested with  • between channels and backplane bus/supply voltage • between channels and backplane bus/supply voltage • between backplane bus and supply voltage • between backplane bus and supply voltage • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • between backplane bus and supply voltage  • bot V DC  (type test)  Standards, approvals, certificates  Suitable for safety functions  No  Ambient conditions  Ambient conditions  Ambient conditions  • horizontal installation, min.  • horizontal installation, max.  • oo °C  • vertical installation, max.  • vertical installation, max.  • vertical installation, max.  • vertical installation attitude above sea level, max.  50 °C  Altitude during operation relating to sea level  • installation attitude above sea level, max.  2 000 m; On request: Installation attitudes greater than 2 000 m  Dimensions  Width  Height  73 mm  Depth  Weights		
electronics  Permissible potential difference  between channels and backplane bus/supply voltage  Isolation  Isolation tested with  • between channels and backplane bus/supply voltage • between channels and backplane bus/supply voltage • between backplane bus and supply voltage • between backplane bus and supply voltage  Tor V DC (type test)  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, max. • vertical installation, max. • vertical installation, max. • vertical installation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  Weights	·	
between channels and backplane bus/supply voltage  Isolation  Isolation tested with  • between channels and backplane bus/supply voltage • between backplane bus and supply voltage  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • oo °C • vertical installation, min. • vertical installation, max. 50 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  68 mm  Weights		Yes
Isolation  Isolation tested with  • between channels and backplane bus/supply voltage • between backplane bus and supply voltage • between backplane bus and supply voltage  • between backplane bus and supply voltage  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • horizontal installation, max. • vertical installation, max. • vertical installation, max. • vertical installation, max. • vertical installation, max.  • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  Weights	Permissible potential difference	
Isolation tested with  • between channels and backplane bus/supply voltage • between backplane bus and supply voltage • between backplane bus and supply voltage  • between backplane bus and supply voltage  707 V DC (type test)  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  Weights	between channels and backplane bus/supply voltage	240 V AC
tested with  • between channels and backplane bus/supply voltage • between backplane bus and supply voltage  • between backplane bus and supply voltage  707 V DC (type test)  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • -30 °C • horizontal installation, max. 60 °C • vertical installation, min. • -30 °C  • vertical installation, max. 50 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width 20 mm  Height 73 mm  Depth 58 mm  Weights	Isolation	
between channels and backplane bus/supply voltage     between backplane bus and supply voltage  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation      horizontal installation, min.     horizontal installation, max.     horizontal installation, min.     vertical installation, min.     vertical installation, max.  Installation altitude above sea level  Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  58 mm  Weights	Isolation tested with	2 500 V DC (type test)
between backplane bus and supply voltage  To7 V DC (type test)  Standards, approvals, certificates  Suitable for safety functions  Ambient conditions  Ambient temperature during operation      • horizontal installation, min.     • horizontal installation, max.     • horizontal installation, min.     • vertical installation, min.     • vertical installation, max.      • vertical installation, max.      • vertical installation, max.      • vertical installation relating to sea level      • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  58 mm  Weights	tested with	
Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max.  • vertical installation, max.  • vertical installation, max.  • vertical installation at the temperature during operation of the temperature during operation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height  73 mm  Depth  58 mm  Weights	<ul> <li>between channels and backplane bus/supply voltage</li> </ul>	2 500 V DC
Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • horizontal installation, max. • horizontal installation, min. • vertical installation, min. • vertical installation, max. 50 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Dimensions  Width  20 mm  Height 73 mm  Depth 58 mm  Weights	<ul> <li>between backplane bus and supply voltage</li> </ul>	707 V DC (type test)
Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max.  50 °C  • vertical installation, max.  50 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  2 000 m; On request: Installation altitudes greater than 2 000 m  Dimensions  Width  20 mm  Height  73 mm  Depth  58 mm  Weights	Standards, approvals, certificates	
Ambient temperature during operation  • horizontal installation, min. • horizontal installation, max. 60 °C • vertical installation, min. • vertical installation, max. 50 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  2 000 m; On request: Installation altitudes greater than 2 000 m  Dimensions  Width 20 mm  Height 73 mm  Depth 58 mm  Weights	Suitable for safety functions	No
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>60 °C</li> <li>vertical installation, min.</li> <li>-30 °C</li> <li>vertical installation, max.</li> <li>50 °C</li> </ul> Altitude during operation relating to sea level <ul> <li>Installation altitude above sea level, max.</li> <li>2 000 m; On request: Installation altitudes greater than 2 000 m</li> </ul> Dimensions Width <ul> <li>20 mm</li> <li>Height</li> <li>73 mm</li> <li>Depth</li> <li>58 mm</li> </ul> Weights	Ambient conditions	
horizontal installation, max.     vertical installation, min.     vertical installation, max.     vertical installation, max.     50 °C  Altitude during operation relating to sea level     Installation altitude above sea level, max.  2 000 m; On request: Installation altitudes greater than 2 000 m  Dimensions  Width     20 mm  Height     73 mm  Depth     58 mm  Weights	Ambient temperature during operation	
<ul> <li>vertical installation, min.</li> <li>vertical installation, max.</li> <li>O °C</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>2 000 m; On request: Installation altitudes greater than 2 000 m</li> <li>Dimensions</li> <li>Width</li> <li>20 mm</li> <li>Height</li> <li>T3 mm</li> <li>Depth</li> <li>58 mm</li> <li>Weights</li> </ul>	<ul> <li>horizontal installation, min.</li> </ul>	-30 °C
vertical installation, max.      Altitude during operation relating to sea level     Installation altitude above sea level, max.      2 000 m; On request: Installation altitudes greater than 2 000 m  Dimensions  Width      20 mm  Height      73 mm  Depth      58 mm  Weights	<ul> <li>horizontal installation, max.</li> </ul>	60 °C
Altitude during operation relating to sea level  Installation altitude above sea level, max.  2 000 m; On request: Installation altitudes greater than 2 000 m  Dimensions  Width  20 mm  Height  73 mm  Depth  58 mm  Weights	<ul> <li>vertical installation, min.</li> </ul>	-30 °C
● Installation altitude above sea level, max.  2 000 m; On request: Installation altitudes greater than 2 000 m  Dimensions  Width 20 mm  Height 73 mm  Depth 58 mm  Weights	<ul> <li>vertical installation, max.</li> </ul>	50 °C
Dimensions           Width         20 mm           Height         73 mm           Depth         58 mm           Weights	Altitude during operation relating to sea level	
Width         20 mm           Height         73 mm           Depth         58 mm           Weights	<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m; On request: Installation altitudes greater than 2 000 m
Height 73 mm  Depth 58 mm  Weights	Dimensions	
Depth 58 mm Weights	Width	20 mm
Weights	Height	73 mm
	Depth	58 mm
Weight, approx. 40 g	Weights	
	Weight, approx.	40 g

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