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

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 • IsSchronous mode No • STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision GSDML V2.3 Operating mode Ves • DQ Yes • DQ Yes • DQ Yes • DQ No • No No • Oversampling No • MSO No • Redundancy capability Yes Supply voltage Zel V • permissible range, upper limit (DC) 24 V • permissible range, upper limit (DC) 24 V	General information	
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	Product type designation	RQ 4x120 VDC 230 VAC/5 A NO ST
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Color code for module-specific color identification plate CC40 Product function • I&M data Yes; I&M0 to I&M3 • Isochronous mode No Engineering with • STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PCS 7 configurable/integrated from version V8.1 SP1 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFIBUS from GSD version/GSD revision GSDML V2.3 Operating mode • DQ Yes • DQ Yes • DQ Yes • DQ Yes • DQ No • NSO No • Redundancy No • Redundancy capability Yes Supply voltage 24 V Permissible range, lower limit (DC) 19.2 V	 FW update possible 	No
Product function Yes; I&M0 to I&M3 • Is&M data Yes; I&M0 to I&M3 • Isochronous mode No Engineering with STEP 7 TIA Portal configurable/integrated from version • STEP 7 configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PCS 7 configurable/integrated from version V8.1 SP1 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision GSDML V2.3 Operating mode Yes • DQ Yes • DQ Yes • DQ with energy-saving function No • NSO No • MSO No • Redundancy capability Yes • Redundancy capability Yes • Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	usable BaseUnits	BU type B0, B1
• I&M data Yes; I&M0 to I&M3 • Isochronous mode No Engineering with	Color code for module-specific color identification plate	CC40
Isochronous mode No Engineering with	Product function	
Engineering with • STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PCS 7 configurable/integrated from version V8.1 SP1 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision GSDML V2.3 Operating mode Ves • DQ Yes • DQ Yes • DQ with energy-saving function No • Oversampling No • MSO No • Redundancy Yes • Redundancy capability Yes Supply voltage Z4 V Permissible range, lower limit (DC) 19.2 V	• I&M data	Yes; I&M0 to I&M3
• STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PCS 7 configurable/integrated from version V8.1 SP1 • PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision GSDML V2.3 Operating mode Vers • DQ Yes • DQ No • PWM No • Oversampling No • MSO No Redundancy Yes Supply voltage Yes Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	 Isochronous mode 	No
• STEP 7 configurable/integrated from versionV5.5 SP3• PCS 7 configurable/integrated from versionV8.1 SP1• PROFIBUS from GSD version/GSD revisionOne GSD file each, Revision 3 and 5 and higher• PROFINET from GSD version/GSD revisionGSDML V2.3Operating modeYes• DQYes• DQ with energy-saving functionNo• PWMNo• OversamplingNo• MSONo• RedundancyYes• Redundancy capabilityYes• Redundancy capabilityYes• Rated value (DC)24 Vpermissible range, lower limit (DC)19.2 V	Engineering with	
• PCS 7 configurable/integrated from versionV8.1 SP1• PROFIBUS from GSD version/GSD revisionOne GSD file each, Revision 3 and 5 and higher• PROFINET from GSD version/GSD revisionGSDML V2.3Operating modeYes• DQYes• DQ with energy-saving functionNo• PWMNo• OversamplingNo• MSONo• Redundancy capabilityYes• Redundancy capabilityYes• Rated value (DC)24 Vpermissible range, lower limit (DC)19.2 V	 STEP 7 TIA Portal configurable/integrated from version 	V14
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• DQ with energy-saving functionNo• PWMNo• OversamplingNo• MSONo• RedundancyNo• Redundancy capabilityYesSupply voltage24 VRated value (DC)24 V• permissible range, lower limit (DC)19.2 V	Operating mode	
• PWM No • Oversampling No • MSO No • MSO No Redundancy Yes • Redundancy capability Yes Supply voltage 24 V Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	• DQ	Yes
• Oversampling No • MSO No • Redundancy No • Redundancy capability Yes • Redundancy capability Yes Supply voltage 24 V permissible range, lower limit (DC) 19.2 V	 DQ with energy-saving function 	No
MSO No Redundancy Redundancy capability Yes Supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	• PWM	No
Redundancy Yes • Redundancy capability Yes Supply voltage 24 V Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	Oversampling	No
Redundancy capability Yes Supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	• MSO	No
Supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	Redundancy	
Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V	 Redundancy capability 	Yes
permissible range, lower limit (DC) 19.2 V	Supply voltage	
	Rated value (DC)	24 V
permissible range, upper limit (DC) 28.8 V	permissible range, lower limit (DC)	19.2 V
	permissible range, upper limit (DC)	28.8 V
Reverse polarity protection Yes	Reverse polarity protection	Yes
Input current	Input current	
Current consumption (rated value) 55 mA; without load	Current consumption (rated value)	55 mA; without load
output voltage / header	output voltage / header	
Rated value (AC) 230 V	Rated value (AC)	230 V
Power loss	Power loss	
Power loss, typ. 1.5 W		1.5 W
Address area		
Address space per module	Address space per module	
Inputs + 1 byte for QI information	· · ·	+ 1 byte for QI information
Outputs 1 byte	-	
Hardware configuration		

	Vec
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
• with inductive load (acc. to IEC 60947-5-1, AC15), max.	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
Current consumption of relays (coil current of all relays),	40 mA
max.	Vec. with miniature fuse may 6.4 tripping current and quick response tripping
	Yes, with miniature fuse max. 6 A tripping current and quick-response tripping characteristic
max.	
max.external protection for relay outputsNumber of operating cycles, max.	characteristic
external protection for relay outputs	characteristic
 max. external protection for relay outputs Number of operating cycles, max. Switching capacity of contacts 	characteristic 7 000 000; see additional description in the manual
 max. external protection for relay outputs Number of operating cycles, max. Switching capacity of contacts with inductive load, max. 	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual
 max. external protection for relay outputs Number of operating cycles, max. Switching capacity of contacts with inductive load, max. with resistive load, max. Thermal continuous current, max. 	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W
max. • external protection for relay outputs • Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — with resistive load, max. — Thermal continuous current, max. — Switching current, min.	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W 100 mA; 5 V DC
 max. external protection for relay outputs Number of operating cycles, max. Switching capacity of contacts with inductive load, max. with resistive load, max. Thermal continuous current, max. Switching current, min. Rated switching voltage (DC) 	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W
max.	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W 100 mA; 5 V DC 24 V DC to 120 V DC
max.	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W 100 mA; 5 V DC 24 V DC to 120 V DC 24V AC to 230V AC
max. • external protection for relay outputs • Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — with resistive load, max. — with resistive load, max. — Thermal continuous current, max. — Switching current, min. — Rated switching voltage (DC) — Rated switching voltage (AC) Cable length • shielded, max.	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W 100 mA; 5 V DC 24 V DC to 120 V DC 24V AC to 230V AC 1 000 m
max.	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W 100 mA; 5 V DC 24 V DC to 120 V DC 24V AC to 230V AC
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max. • external protection for relay outputs • Number of operating cycles, max. Switching capacity of contacts	characteristic 7 000 000; see additional description in the manual 2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W 100 mA; 5 V DC 24 V DC to 120 V DC 24V AC to 230V AC 1 000 m 200 m Yes Yes Yes
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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 channels and backplane bus/supply voltage	240 V AC
Isolation	
Isolation tested with	2 500 V DC (type test)
tested with	
 between channels and backplane bus/supply voltage 	2 500 V DC
 between backplane bus and supply voltage 	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
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. 	2 000 m; On request: Installation altitudes greater than 2 000 m
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	40 g

last modified:

8/16/2023 🖸