

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7132-6HD01-0BB1

FOUR-CHANNEL RELAY OUTPUT MODULE

Used with the applicable SIMATIC ET 200SP configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official technical documentation for 6ES7132-6HD01-0BB1

Properties

The module has the following technical properties:

- Digital output module with 4 floating relay outputs
- Supply voltage L+
- Output current per output 5 A
- Normally open contact (NO: normally open)
- Configurable diagnostics (per module)
- Configurable substitute values (per channel)
- Suitable for solenoid valves, DC contactors, and indicator lights

The module supports the following functions:

Table 2- 1 Version dependencies of the functions

Function	HW version	FW version	STEP 7		GSD file	
			TIA Portal	V5.x	PROFINET IO	PROFIBUS DP
Identification data I&M0 to I&M3	FS01	V0.0.0 and higher	V14 or higher with HSP 0222	V5.5 SP3 or higher with HSP 0232 V7.0	X	X
Configuration in RUN	FS01	V0.0.0 and higher	V14 or higher with HSP 0222	V5.5 SP3 or higher with HSP 0232 V7.0	X	X
PROFenergy	FS01	V0.0.0 and higher	V14 or higher with HSP 0222	V5.5 SP3 or higher with HSP 0232 V7.0	X	X
Value status	FS01	V0.0.0 and higher	V14 or higher with HSP 0222	V5.5 SP3 or higher with HSP 0232 V7.0	X	X

Accessories

The following accessories must be ordered separately:

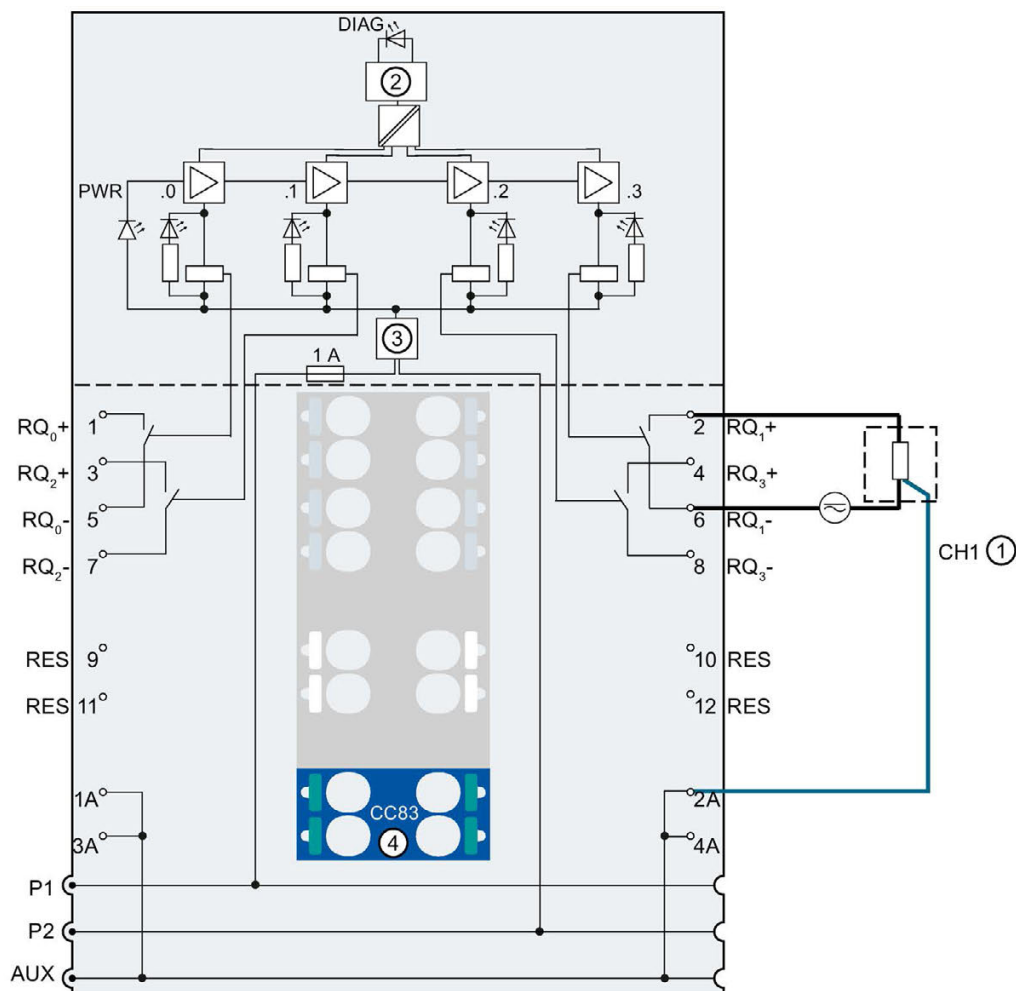
- Labeling strips
- Color identification labels
- Reference identification label
- Shield connector

See also

You can find more information on accessories in the ET 200SP distributed I/O system (<http://support.automation.siemens.com/WW/view/en/58649293>) system manual.

Connection: 3-wire connection of actuators

The following figure shows the block diagram and an example for the terminal assignment of the digital output module RQ 4x120VDC-230VAC/5A NO ST on the BaseUnit BU type B0.



①	3-wire connection	RES	Reserve, must remain unused for future function extensions
②	Backplane bus interface	1A to 4A	AUX terminals (freely usable up to 230 V AC)
③	Polarity reversal protection	DIAG	Diagnostics LED (green, red)
④	Color identification label CCxx (optional)	.0, .1, .2, .3	Channel status LED (green)
RQ _n +, RQ _n -	Channel n	PWR	Power LED (green)
P1, P2, AUX	Internal self-assembling voltage buses		
	Connection to left (dark-colored BaseUnit)		

Figure 3-1 Wiring and block diagram for 3-wire connection of actuators

6.1 Technical specifications

Article number	6ES7132-6HD01-0BB1
Input current	
Current consumption (rated value)	55 mA; without load
Output voltage	
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
Digital outputs	
Type of digital output	Relays
Number of digital outputs	4
Current-sinking	Yes
Current-sourcing	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, 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; in all other mounting positions

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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
• external protection for relay outputs	Yes, with 6A
• Number of operating cycles, max.	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
– Thermal continuous current, max.	5 A; Max. 1 385 VA, 150 W
– Switching current, min.	100 mA; 5 V DC
– Rated switching voltage (DC)	24 V DC to 120 V DC
– Rated switching voltage (AC)	24V AC to 230V AC
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
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