6ES7522-5HH00-0AB0

Data sheet



SIMATIC S7-1500, digital output module DQ 16x 230V AC/2A ST; relay 16 channels in groups of 2; 4 A per group; switching cycle counter for integrated relay, diagnostics; substitute value: the module supports the safety-oriented shutdown of load groups up to SIL1 according to EN IEC 62061:2021 and Category 2 / PL c according to EN ISO 13849-1:2015. front connector (screw terminals or push-in) to be ordered separately

General information		
Product type designation	DQ 16x 230 V AC/2 A ST (relay)	
HW functional status	FS01	
Firmware version	V1.1.0	
FW update possible	Yes	
Product function		
I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Prioritized startup	Yes	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 / -	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1	
PROFINET from GSD version/GSD revision	V2.3 / -	
Operating mode		
• DQ	Yes	
 DQ with energy-saving function 	No	
• PWM	No	
 Oversampling 	No	
• MSO	Yes	
Integrated operating cycle counter	Yes; FW V1.1.0 or higher	
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.	185 mA	
output voltage / header		
Rated value (AC)	230 V; 24 V DC to 120 V DC / 24 V AC to 230 V AC	
Power		
Power available from the backplane bus	0.8 W	
Power loss		
Power loss, typ.	5 W	
Digital outputs		
Type of digital output	Relays	
Number of digital outputs	16	
Current-sinking	Yes	

Digital outputs, parameterizable Yes Short-circuit protection No Controlling a digital input Yes Size of motor starfers according to NEMA, max. 5 Switching capacity of the outputs • on lamp load, max. 50 W (230 V AC), 5 W (24 V DC) Output current • for signal "1" rated value • for signal "1" permissible range, min. 10 mA; 10 V • for signal "0" residual current, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for logic links • for or signal switching of two outputs • for redundant control of a load Yes Switching fequency • with resistive load, max. 1 Hz • with inductive load, max. 1 Hz • or lamp load, max. 1 Hz • or lamp load, max. 1 Hz • Current per group, max. 4 A; see additional description in the manual • Current per channel, max. 2 A; see additional description in the manual • Current per module, max. 3 A; see additional description in the manual • Current per module, max. 150 mA • Rated supply voltage of relay coil L+ (DC) 24 V • Current consumption of relays (coil current of all relays), typ. • Current consumption of relays (coil current of all relays), typ. • External protection (internal) No • Number of operating cycles, max. see additional description in the manual • Contact connection (internal) No • Number of operating cycles, max. see additional description in the manual • Relay approved acc. to UL 508 No Switching capacity of contacts — with inductive load, max. 2 A; see additional description in the manual • Relay approved acc. to UL 508 No Switching capacity of contacts — with inductive load, max. 2 A; see additional description in the manual • Seledidod, max. 600 m • shelded, max. 1000 m • shelded, max. 600 m • Current per contacts — with inductive load in max 600 m • No max 600 m • No max 600 m • No max 600	Digital outputs, parameterizable	
Short-circuit protection No Controlling a digital input Yes Size of motor starters according to NEMA, max. 5 Switching capacity of the outputs • on lamp load, max. 5 W (230 V AC), 5 W (24 V DC)		Yes
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Size of motor starters according to NEMA, max. Switching capacity of the outputs on lamp load, max. 1 or signal "1" permissible range, min. of or signal "1" permissible range, min. of or signal "1" permissible range, max. of or signal "0" residual current, max. No A Parallel switching of two outputs of or uprating of or redundant control of a load Yes Switching frequency with inductive load, max. of hamp load, max. of hamp load, max. of current per channel, max. of current per group, max. of current per module, max. of current per modules of current per modules Number of relay outputs of Relay outputs of Relay approved acc. to Ut. 508 Switching capacity of contacts with inductive load, max. of current per dop operating cycles, max. of Relay approved acc. to Ut. 508 Switching capacity of contacts with inductive load, max. of current per signal max. of current per modules of the outputs of the output output output outputs of the output	Controlling a digital input	
Switching capacity of the outputs on a lamp load, max. of or signal "1" rated value of or signal "1" permissible range, min. of or signal "1" permissible range, max. of or signal "0" residual current, max. OA Parallel switching of two outputs of or logic links of or uprating of or logic links of or uprating of redundant control of a load Yes Switching frequency with resistive load, max. of the loughts or lamp load, max. 1 Hz Total current of the outputs Current per channel, max. Current per group, max. current per group, max. current per group, max. current per group to lamp load, max. current per group load. No Total current of relay outputs No No No Subtining capacity of contacts		
• on lamp load, max. Output current • for signal "1" rated value • for signal "1" permissible range, min. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "1" permissible range, max. • for signal "0" residual current, max. • for signal "1" permissible range, max. • for logic links • for logic links • for uprating • for redundant control of a load • Yes Switching frequency • with resistive load, max. • with inductive load, max. • with inductive load, max. • unax. • Current per channel, max. • Current per channel, max. • Current per group, max. • Current per module, max. • Relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Number of operating cycles, max. • Relay approved acc. to UL 508 • Switching capacity of contacts — with inductive load, max. • Relay approved acc. to UL 508 • No Switching capacity of contacts — with resistive load, max. • Relay approved acc. to UL 508 • No Switching capacity of contacts — with resistive load, max. • Shielded, max. • I 000 m • Shielded, max. • unshielded, max. • Diagnostic alarm • Diagnostic alarm • Maintenance interrupt • Maintenance interrupt	-	3
Output current • for signal "1" partial value • for signal "1" permissible range, min. • for signal "1" permissible range, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for logic links • for logic links • for logic links • for uprating • for redundant control of a load • Yes Switching frequency • with resistive load, max. • on lamp load, max. • on lamp load, max. • on lamp load, max. • Current per group, frequency • Number of relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Relay autpote of operating cycles, max. • Relay approved acc. to UL 508 • Switching capacity of contacts — with inductive load, max. • Relay approved acc. to UL 508 • Switching capacity of contacts — with resistive load, max. • Lourent per operating cycles, max. • Relay approved acc. to UL 508 • Switching capacity of contacts — with resistive load, max. • Lourent per deplay counter to enter the sea additional description in the manual • No • Switching capacity of contacts — with resistive load, max. • Lourent per deplay counter to enter the sea additional description in the manual • No • Switching capacity of contacts — with resistive load, max. • Lourent per deplay counter to enter the sea additional description in the manual • No • Switching capacity of contacts — with resistive load, max. • Lourent per deplay counter to enter the sea additional description in the manual • No • Switching capacity of contacts — with resistive load, max. • Lourent per deplay counter to enter the sea additional description in the manual • Lourent per deplay counter the sea additional description in the manual • Lourent per deplay counter the sea additional description in the manual • No • Capacity of contacts — with resistive load, max. • Lourent per		50 W (230 V AC) 5 W (24 V DC)
• for signal "1" rated value • for signal "1" permissible range, min. • for signal "1" permissible range, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for logic links • for logic links • for logic links • for redundant control of a load • Yes Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • Oral lamp load, max. • Current per channel, max. • Current per channel, max. • Current per group, max. • Current per module, max. • Current per notable, max. • A is es additional description in the manual • Current per module, max. • Sale as upply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Nomber of operating cycles, max. • Relay approved acc. to Ut. 508 • Contact connection (internal) • No Switching capacity of contacts — with inductive load, max. • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • No Switching capacity of contacts — with inductive load, max. • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • No Switching capacity of contacts — with inductive load, max. • Oral permits and the series and the seri	·	30 W (230 V AC), 3 W (24 V DC)
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• for signal "1" permissible range, max. • for signal "0" residual current, max. Parallel switching of two outputs • for logic links • for uprating • for redundant control of a load • for redundant control of a load • yes Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. • Current per channel, max. • Current per group, max. • Number of relay outputs • Alated supply voltage of relay coil L+ (DC) • Ourrent consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Number of operating cycles, max. • Relay approved acc. to UL 508 • No Switching capacity of contacts — with inductive load, max. — with resistive load, max. • A see additional description in the manual • A see additional des	-	
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Contact connection (internal) No Number of operating cycles, max. Relay approved acc. to UL 508 Switching capacity of contacts		Miniature circuit breaker R10 / R16
Number of operating cycles, max. Relay approved acc. to UL 508 Switching capacity of contacts - with inductive load, max with resistive load, max. 2 A; see additional description in the manual - with resistive load, max. 2 A; see additional description in the manual Cable length shielded, max. 1 000 m unshielded, max. 600 m Interrupts/diagnostics/status information Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt Yes		
Relay approved acc. to UL 508 Switching capacity of contacts - with inductive load, max. - with resistive load, max. 2 A; see additional description in the manual 2 A; see additional description in the manual Cable length • shielded, max. • unshielded, max. • unshielded, max. Substitute values connectable Yes Alarms • Diagnostic alarm • Maintenance interrupt Yes		
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Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt Yes Yes		600 III
Alarms		
 Diagnostic alarm Maintenance interrupt Yes Yes 		Yes
Maintenance interrupt Yes		V
Diagnoses	·	Yes
	Diagnoses	V
Monitoring the supply voltage Yes		
Wire-break No		
Short-circuit No		No
Diagnostics indication LED		V 150
RUN LED Yes; green LED		
• ERROR LED Yes; red LED		
MAINT LED Yes; Yellow LED	MAINT LED	
	Monitoring of the supply voltage (PWR-LED)	•
	Channel status display	
◆ for module diagnostics Yes; red LED	Channel status displayfor channel diagnostics	
Potential separation	Channel status displayfor channel diagnosticsfor module diagnostics	
Potential separation channels	Channel status displayfor channel diagnosticsfor module diagnostics	
• between the channels No	 Channel status display for channel diagnostics for module diagnostics otential separation	
• between the channels, in groups of 2	Channel status display for channel diagnostics for module diagnostics otential separation Potential separation channels	Yes; red LED No

 between the channels and backplane bus 	Yes	
Between the channels and load voltage L+	Yes	
Permissible potential difference		
between different circuits	250 V AC between the channels and the supply voltage L+; 250 V AC between the channels and the backplane bus; 500 V AC between the channels	
Isolation		
Isolation tested with	Between channels: 3 100 V DC; between channels backplane bus: 3 100 V DC; between L+ and backplane bus: 707 V DC (type test)	
Standards, approvals, certificates		
Suitable for safety functions	No	
Suitable for safety-related tripping of standard modules	Yes; From FS02	
Highest safety class achievable for safety-related tripping of standard modules		
 Performance level according to ISO 13849-1 	PL c	
 Category according to ISO 13849-1 	Cat. 2	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-25 °C; From FS02	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-25 °C; From FS02	
 vertical installation, max. 	40 °C	
Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	350 g	

7/28/2021

last modified: