## SIEMENS

## Data sheet

## 6ES7522-5HF00-0AB0



SIMATIC S7-1500, digital output module DQ 8xAC 230V/5A ST; relay; 8 channels in groups of 1; 5 A per group; diagnostics; substitute value: switching cycle counter for integrated relay, 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

Figure similar

DQ 8x230 V AC/5 A ST (relay)
From FS02
V2.1.0
Yes
Yes; I&M0 to I&M3
No
Yes
V12 / V12
V5.5 SP3 / -
V1.0 / V5.1
V2.3 / -
Yes
No
No
No
Yes
Yes; FW V2.1.0 or higher
24 V
19.2 V
28.8 V
Yes
80 mA
230 V; 24 V DC to 120 V DC / 24 V AC to 230 V AC
0.8 W
5 W
Relays
8
Yes
Yes

Digital outputs, parametorizable	Voc
Digital outputs, parameterizable	Yes
Short-circuit protection	No Voci possible
Controlling a digital input	Yes; possible
Size of motor starters according to NEMA, max.	5
Switching capacity of the outputs	
• on lamp load, max.	1 500 W; 10 000 operating cycles
Low energy/fluorescent lamps with electronic control gear	10x 58 W (25 000 operating cycles)
Fluorescent tubes, conventionally compensated	1x 58 W (25 000 operating cycles)
Fluorescent tubes, uncompensated	10x 58 W (25 000 operating cycles)
Output current	5 A
• for signal "1" rated value	5 A
• for signal "1" permissible range, min.	5 mA; 10 V
• for signal "1" permissible range, max.	8 A; thermal continuous current
for signal "0" residual current, max.	0 A
Parallel switching of two outputs	
<ul> <li>for logic links</li> </ul>	Yes
<ul> <li>for uprating</li> </ul>	No
<ul> <li>for redundant control of a load</li> </ul>	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	
<ul> <li>Current per channel, max.</li> </ul>	8 A; see additional description in the manual
<ul> <li>Current per group, max.</li> </ul>	8 A; see additional description in the manual
<ul> <li>Current per module, max.</li> </ul>	64 A; see additional description in the manual
Relay outputs	
<ul> <li>Number of relay outputs</li> </ul>	8
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>	24 V
<ul> <li>Current consumption of relays (coil current of all relays),</li> </ul>	80 mA
typ. • external protection for relay outputs	With miniature circuit breaker with characteristic B for: $\cos \phi$ 1.0: 600 A $\cos \phi$ 0.5 0.7: 900 A with 8 A Diazed fuse: 1 000 A
<ul> <li>Contact connection (internal)</li> </ul>	No
Number of operating cycles, max.	4 000 000; see additional description in the manual
Relay approved acc. to UL 508	Yes; 250 V AC/5 A g.p.; 120 V AC TV-4 tungsten; A300, R300
	res, 200 v Acio A g.p., 120 v Ac 1 v-4 tuligstell, A000, 1000
Switching capacity of contacts	and additional description in the manual
<ul> <li>— with inductive load, max.</li> <li>— with resistive load, max.</li> </ul>	see additional description in the manual
	see additional description in the manual
Cable length	4 000
shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	Vac
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	No.
Diagnostic alarm	Yes
Maintenance interrupt	Yes
Diagnoses	
Monitoring the supply voltage	Yes
• Wire-break	No
Short-circuit	No
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
MAINT LED	Yes; Yellow LED
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green LED
Channel status display	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	No
for module diagnostics	Yes; red LED
Potential separation	

Potential separation channels	
<ul> <li>between the channels</li> </ul>	Yes; Switching of different phases permitted
<ul> <li>between the channels, in groups of</li> </ul>	1
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>Between the channels and load voltage L+</li> </ul>	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; 250 V AC between the channels (500 V AC when connecting different phases; basic insulation)
Isolation	
Isolation tested with	between the channels: 3 100 V DC; between the channels and the backplane bus: 3 100 V DC; between the channels and the supply voltage L+: 3 100 V DC; between the L+ and the 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 FS03
Highest safety class achievable for safety-related tripping of st	andard modules
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PL c
<ul> <li>Category according to ISO 13849-1</li> </ul>	Cat. 2
• SIL acc. to IEC 62061	SIL 1
<ul> <li>remark on safety-oriented shutdown</li> </ul>	https://support.industry.siemens.com/cs/de/en/view/39198632
product functions / security / header	
signed firmware update	No
data integrity	No
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; From FS03
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
• vertical installation, min.	-30 °C; From FS03
<ul> <li>vertical installation, max.</li> </ul>	40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	350 g

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