SIEMENS

Data sheet 6ES7322-1CF00-0AA0



Figure similar

spare part SIMATIC S7-300, digital output SM 322, isolated, 8 DO, 48-125 V DC, 1.5 A, 1x 20-pole

Supply voltage	
Load voltage L+	
● Rated value (DC)	48 V; 48 V DC to 125 V DC
● permissible range, lower limit (DC)	40 V
● permissible range, upper limit (DC)	140 V
● Reverse polarity protection	Yes; through fuse
Input current	
from load voltage L+ (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7.2 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
● Response threshold, typ.	4.4 A
Limitation of inductive shutdown voltage to	M (-1 V)
Controlling a digital input	Yes
Spare fuses	6.3 A / 250 V, quick-response, 5x 20 mm
Switching capacity of the outputs	
● on lamp load, max.	15 W; 15 W (48 V) or 40 W (125 V)
Output voltage	
● for signal "1", min.	L+ (-1.2 V)
Output current	
● for signal "1" rated value	1.5 A
● for signal "1" permissible range for 0 to 40 °C, min.	10 mA
● for signal "1" permissible range for 0 to 40 °C, max.	1.5 A
● for signal "1" permissible range for 40 to 60 °C, min.	10 mA
● for signal "1" permissible range for 40 to 60 °C, max.	1.5 A
● for signal "1" minimum load current	10 mA
● for signal "1" permissible surge current, max.	3 A; for 10 ms
● for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
● "0" to "1", max.	2 ms
● "1" to "0", max.	15 ms
Parallel switching of two outputs	
● for uprating	No
● for redundant control of a load	Yes; only outputs of the same group
Switching frequency	

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● with resistive load, max.	25 Hz
● with inductive load, max.	0.5 Hz
● with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz
● on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
— up to 60 °C, max.	3 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
● Diagnostic alarm	No
Diagnoses	
● Wire break	No
● Short-circuit	No
● Fuse blown	No
● Missing load voltage	No
Diagnostics indication LED	
● Rated load voltage PWR (green)	No
● Fuse OK FSG (green)	No
● Group error SF (red)	Yes
● Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
● between the channels	Yes
● between the channels, in groups of	4
● between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	1 500 V AC
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	250 g

Classifications

	Version	Classification
eClass	16	27-24-22-04
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419

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ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

CSA	Manufacturer Declaration	CE EG-Konf.	UKCA	RCM	Declaration of Conformity

Radio Equipment Type Approval Certificate	Test Certificates	other	Dangerous goods	Environment
KC	CB CB	inspection certificate	Dangerous goods information	EPD

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