SIEMENS

Data sheet 6ES7422-1HH00-0AA0



Figure similar

SIMATIC S7-400, digital output SM 422, isolated 16 DO; 5..230 V AC, 5 A relay

Supply voltage	
Load voltage L+	
● Rated value (DC)	60 V
● permissible range, lower limit (DC)	1 V
● permissible range, upper limit (DC)	60 V
Load voltage L1	
● Rated value (AC)	230 V
● permissible range, lower limit (AC)	2 V
● permissible range, upper limit (AC)	264 V
Input current	
from backplane bus 5 V DC, max.	1 A
Power loss	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	16; Relays
Short-circuit protection	No
Controlling a digital input	Yes; possible
Size of motor starters according to NEMA, max.	Size 5 according to NEMA
Switching capacity of the outputs	
● on lamp load, max.	60 W
Output current	
● for signal "1" rated value	5 A
● for signal "1" minimum load current	11 mA
Parallel switching of two outputs	
● for uprating	No; Not possible
● for redundant control of a load	Yes; Possible (only outputs with the same load voltage)
Switching frequency	
● with resistive load, max.	10 Hz
● With inductive load (to IEC 60947-5-1, DC13/AC15), max.	1 Hz
● on lamp load, max.	1 Hz
● mechanical, max.	20 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 40 °C, max.	10 A; 10 A with fan subassembly
— up to 60 °C, max.	5 A; 10 A with fan subassembly
Relay outputs	
● Number of operating cycles, max.	100 000; 100 000 (AC-15 / DC-13); 3 000 000 mechanical
Switching capacity of contacts	

© Copyright Siemes

— with inductive load, max.	5 A; 5 A (30 V DC), 5 A (230 V AC)
— with resistive load, max.	5 A; 5 A (30 V DC), 5 A (230 V AC), 1.2 A (60 V DC), 0.2 A (125 V DC)
— Thermal continuous current, max.	5 A
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Diagnostics indication LED	
● Status indicator digital output (green)	Yes; per channel
Potential separation	
Potential separation digital outputs	
● between the channels	Yes
● between the channels, in groups of	2
● between the channels and backplane bus	Yes
Isolation	
Isolation tested with	1 500 V AC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	700 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
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

General Product Approval			EMV		For use in hazardous locations
China RoHS	Miscellaneous	Manufacturer Declaration			FM

For use in hazardous locations	Maritime application

© Copyright Siemens











NK / Nippon Kaiji Kyokai

Maritime application







CCS (China Classification Society)

last modified: 6/7/2025

© Copyright Siemes