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	

Subject to change without notice
© Copyright Siemens

— 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

Subject to change without notice
© Copyright Siemens











LRS

NK / Nippon Kaiji Kyokai

Maritime application







CCS (China Classification Society)

last modified: 8/7/2026

Subject to change without notice
© Copyright Siemens