MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7138-4DC01-0AB0

1 STEP STEPPER MOTOR POSITIONING MODULE

Used with the applicable SIMATIC ET 200S configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Official Siemens technical documentation for 6ES7138-4DC01-0AB0

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Data sheet 6ES7138-4DC01-0AB0



Figure similar

*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 1 STEP 5 V/204 kHz for stepper motor positioning 15 mm wide, 1-channel +/-5 V interface to power unit

Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V
● Reverse polarity protection	Yes
Input current	
From load voltage L+ (no load), typ.	40 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	1.5 W
Digital inputs	
Number of digital inputs	2
Functions	Reference cams, pulse suppression, external stop, limit switch
Repeat frequency, max.	100 Hz
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Input voltage	
● Rated value (DC)	24 V
● for signal "0"	-30 to +5 V (-15% / +20%)
● for signal "1"	+11 to +30V
Input current	
● for signal "0", max. (permissible quiescent current)	2 mA
● for signal "1", typ.	9 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	4 ms
— at "1" to "0", max.	4 ms
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Encoder	
Connectable encoders	
● 2-wire sensor	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
● RDY LED	Yes
● Positioning mode POS (green)	Yes
● Group error SF (red)	Yes
● Status indicator digital input (green)	Yes
Integrated Functions	

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Step-by-step controllers	
• Number of stepper motor channels	1
• Cable length, max.	100 m; twisted and shielded in pairs
• Connection for stepper motors	Differential signals for pulses (PULSE, notPULSE) and direction (DIR, notDIR) to RS 422
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g

Classifications

	Version	Classification
eClass	16	27-24-26-05
eClass	14	27-24-26-05
eClass	12	27-24-26-05
eClass	9.1	27-24-26-05
eClass	9	27-24-26-05
eClass	8	27-24-26-05
eClass	7.1	27-24-26-05
eClass	6	27-24-26-05
ETIM	10	EC001601
ETIM	9	EC001601
ETIM	8	EC001601
ETIM	7	EC001601
IDEA	4	3567
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration

General Product Approval

China RoHS

EMV

For use in hazardous locations

For use in hazardous locations

FM | Miscellaneous

Maritime application

NK / Nippon Kaiji Kyokai

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Maritime application



CCS (China Classification Society)

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