MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Siemens pages

SIMATIC ET 200S

6ES7138-4DC00-0AB0

POWER MODULE

OFFICIAL SOURCES

Siemens official product documentation. Selected pages retain their original content, color and aspect ratio.

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Data sheet 6ES7138-4DC00-0AB0

SIMATIC DP, ELECTRONIC MODULE FOR ET 200S, 1 STEP 5V/204KHZ FOR POSITIONING STEPPER MOTOR 15MM WIDE, SINGLE CHANNEL, +/-5V INTERF. FOR POWER SECTION

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	Input REF: reference cams, input DI: pulse disable or external stop
Repeat frequency, max.	1 kHz
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.	300 µs
— at "1" to "0", max.	300 µs
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes

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Interrupts/diagnostics/status information	
Diagnostics indication LED	
• Description	1 green LED for status indication "Ready for positioning jobs"
• Positioning mode POS (green)	Yes
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes

Integrated Functions	
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

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