

SIDOOR ATD401W control device for machine tools, up to 700 kg door weight, 36 V DC, 1*RS485, 4*DI, 3*relay, 1*24 V DC out, -20 to +50° Celsius, EN ISO 13849-1 performance level d, EN ISO 14120



Figure similar

General information	
Product type designation	ATD401W
Optional product expansion	TRANSFORMER (6FB1112-0AT20-2TR0), TRANSFORMER UL (6FB1112-0AT21-2TR0), NT40 (6FB1112-0AT20-3PS0), DIN rail holder (6FB1144-0AT00-3AS0)
Manufacturer's article no. of the usable motor	6FB1103-0AT10-4MB0, 6FB1103-0AT10-3MC0, 6FB1103-0AT10-3MD0, 6FB1103-0AT11-4MB0, 6FB1103-0AT11-3MC0, 6FB1103-0AT11-3MD0, 6FB1103-0AT14-4MB1, 6FB1103-0AT13-4MB1, 6FB1103-0AT14-3MC2, 6FB1103-0AT13-3MC2, 6FB1103-0AT14-3MG2, 6FB1103-0AT13-3MG2
Manufacturer's article no. of the usable power supply unit	6FB1112-0AT20-2TR0, 6FB1112-0AT21-2TR0, 6FB1112-0AT20-3PS0, 6EP3446-8SB10-0AY0
Installation type/mounting	
Installation and mounting instructions	No direct solar radiation, final application-specific requirements must be observed. Installation outside a control cabinet only in horizontal mounting position
Supply voltage	
Design of the power supply	Via SIDOOR TRANSFORMER / SIDOOR TRANSFORMER UL / NT40 / SITOP PSU8200 13 A, 36 V or via DC
Rated value (DC)	36 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	38 V
Protection in case of DC supply	Use of a circuit breaker in the supply path according to 60898-1, 8A, C-characteristic type SIEMENS: 5SY4108-7 or 5SY4108-7KK11
Input current	
I ² t, min.	30 A ² s
Encoder supply	
Output voltage (DC)	24 V; Ensure correct polarity! CAUTION: Do not supply with external voltage!
short-circuit proof	Yes
Overload-proof	Yes
24 V encoder supply	
• Output current, max.	400 mA
Power	
Active power input	145 W
Active power input, max.	540 W
Active power input (standby mode)	5 W
Digital inputs	
Control inputs isolated	Yes
Control inputs p-switching	Yes
Input voltage	
• for signal "0", min.	-3 V
• for signal "0", max.	5 V

• for signal "1", min.		10 V	
• for signal "1", max.		28 V	
Input current			
• for signal "0", max. (permissible quiescent current)		0.5 mA	
• for signal "1", min.		9 mA	
• for signal "1", max.		27 mA	
Digital outputs			
Relay outputs			
Switching capacity of contacts			
— at 30 V DC, min.		0.01 A	
— at 30 V DC, max.		1 A	
Mechanical data			
Opening width of door, min.		0.3 m	
Opening width of door, max.		5 m	
Weight of door, max.		600 kg	
Operating cycle frequency of door, max.		180 1/h	
Counterforce, max.		75 N	
Kinetic energy, max.		100 J	
Interfaces			
Interfaces/bus type		without	
Isolation			
Overvoltage category		2	
Degree of pollution		2	
Degree and class of protection			
IP degree of protection		IP20	
Standards, approvals, certificates			
Certificate of suitability according to EN 81		No	
CE mark		Yes	
UL approval		Yes	
EAC (formerly Gost-R)		Yes	
TÜV Inspectorate approval		Yes	
China RoHS compliance		Yes	
Standard for EMC		EN 61000-6-2 / EN 61000-6-4	
Standard for safety		EN 61010-1 / EN 61010-2-201 / UL 61010-1 / UL 61010-2-201 / EN ISO 13849-1 Cat. 2 PL d	
Ambient conditions			
Ambient temperature during operation			
• min.		-20 °C	
• max.		50 °C	
Ambient temperature during storage/transportation			
• Storage, min.		-40 °C	
• Storage, max.		70 °C	
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.		2 000 m	
Relative humidity			
• No condensation, min.		10 %	
• No condensation, max.		93 %	
Dimensions			
Width		320 mm	
Height		60 mm	
Depth		80 mm	
Classifications			
		Version	Classification
	eClass	16	27-02-27-11
	eClass	14	27-02-27-11
	eClass	12	27-02-27-11
	ETIM	10	EC002987
	ETIM	9	EC002987

ETIM	8	EC002987
ETIM	7	EC002987
IDEA	4	4776
UNSPSC	15	39-12-15-52

Approvals / Certificates

General Product Approval



EG-Konf.

[Declaration of Con-
formity](#)



[TUEV](#)



UL

[TUEV](#)

General Product Ap- proval	EMV	Functional Saftey	other
-------------------------------	-----	-------------------	-------

[China RoHS](#)



RCM



UL

[Confirmation](#)

last modified:

5/7/2025 