SIEMENS

Data sheet 6FB1141-2AT10-3WE2

SIDOOR ATD420W control device for machine tools, up to 700 kg door weight, 36 V DC, 1*RS485, 4*DI, 2*relay, 1*PROFIBUS, 1*24VDC Out, -20 to +50 °C, EN ISO 13849-1 performance level d, EN ISO 14120



Figure similar

General information	
Product type designation	ATD420W
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^2t, min.	30 $A^2 \cdot s$
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

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● 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.	0.5 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	PROFIBUS according to IEC 61784-3
Number of bus nodes	32
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
PNO certificate	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

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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

CE EG-Konf.	Declaration of Conformity	UKCA	TUEV	UL	TUEV

General Product Approval	EMV	Functional Saftey	other	Industrial Communication
China RoHS	RCM	UL	Confirmation	Profibus

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