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Data sheet 6ES7351-1AH02-0AE0



Figure similar

spare part SIMATIC S7-300, positioning module FM 351 for rapid/slow traverse drives incl. configuration package on CD

Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Load voltage L+	
● Rated value (DC)	24 V
● permissible range, lower limit (DC)	20.4 V
● permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, max.	350 mA
from backplane bus 5 V DC, max.	150 mA
Encoder supply	
5 V encoder supply	
● 5 V	Yes
● Output current, max.	350 mA
● Cable length, max.	32 m
24 V encoder supply	
● 24 V	Yes
● Output current, max.	400 mA; Per channel
● Cable length, max.	100 m
Power loss	
Power loss, typ.	7.9 W
Digital inputs	
Number of digital inputs	8
Functions	Reference cams, reversing cams, flying actual value setting, start/stop positioning
Input voltage	
● Rated value (DC)	24 V
● for signal "0"	-3 to +5V
● for signal "1"	+11 to +30V
Input current	
● for signal "0", max. (permissible quiescent current)	2 mA
● for signal "1", typ.	6 mA
Digital outputs	
Number of digital outputs	8
Functions	Rapid traverse, creep, run right, run left
Short-circuit protection	Yes
Output voltage	

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● Rated value (DC)	24 V
● for signal "1", min.	UP - 0.8 V
Output current	
● for signal "1" permissible range for 0 to 60 °C, min.	5 mA; with UPmax
● for signal "1" permissible range for 0 to 60 °C, max.	600 mA; with UPmax
● for signal "0" residual current, max.	0.5 mA
Encoder	
Connectable encoders	
● Incremental encoder (symmetrical)	Yes
● Incremental encoder (asymmetrical)	Yes
● Absolute encoder (SSI)	Yes
● 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	2 mA; on signal "0", max. 2 mA; on signal "1", max. 6 mA
Encoder signals, incremental encoder (symmetrical)	
● Trace mark signals	A, notA, B, notB
● Zero mark signal	N, notN
● Input voltage	5 V difference signal (phys. RS 422)
● Input frequency, max.	0.5 MHz
Encoder signals, incremental encoder (asymmetrical)	
● Trace mark signals	A, B
● Zero mark signal	N
● Input voltage	24 V
● Input frequency, max.	50 kHz; 50 kHz for 25 m cable length; 25 kHz for 100 m cable length
Encoder signals, absolute encoder (SSI)	
● Input signal	5 V difference signal (phys. RS 422)
● Data signal	DATA, notDATA
● Clock signal	CL, notCL
● Telegram length, parameterizable	13 or 25 bit
● Clock frequency, max.	1.5 MHz
● Gray code	Yes
● Cable length, shielded, max.	200 m; At max. 188 kHz
Potential separation	
Potential separation digital inputs	
● Potential separation digital inputs	Yes
Potential separation digital outputs	
● Potential separation digital outputs	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	60 °C
Ambient temperature during storage/transportation	
● min.	-40 °C
● max.	70 °C
Connection method	
required front connector	1x 20-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	550 g
Classifications	

	Version	Classification
eClass	16	27-24-22-05
eClass	14	27-24-22-05
eClass	12	27-24-22-05
eClass	9.1	27-24-22-05

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eClass	9	27-24-22-05
eClass	8	27-24-22-05
eClass	7.1	27-24-22-05
eClass	6	27-24-22-05
ETIM	10	EC001422
ETIM	9	EC001422
ETIM	8	EC001422
ETIM	7	EC001422
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



FM



For use in hazardous locations





Miscellaneous

CCC-Ex

Maritime application





Maritime application









CCS (China Classification Society)

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