



SIMATIC S7-400, cam control system FM 452, electronic incl. configuration package on CD

Supply voltage	
Rated value (DC)	24 V
Input current	
Current consumption, max.	500 mA
Encoder supply	
5 V encoder supply	
• 5 V	Yes
• Output current, max.	300 mA
• Cable length, max.	32 m
24 V encoder supply	
• 24 V	Yes
• Output current, max.	300 mA
• Cable length, max.	100 m
Power loss	
Power loss, typ.	8.1 W
Digital inputs	
Number of digital inputs	11
Functions	Reference point switch, flying actual value setting/length measurement, brake release, enable track output no. 3 to 10
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-28.8 ... +5V
• for signal "1"	+11 to +28.8V
Input current	
• for signal "0", max. (permissible quiescent current)	2 mA
• for signal "1", typ.	9 mA
Digital outputs	
Number of digital outputs	16
Functions	Cam track
Short-circuit protection	Yes
Output voltage	
• Rated value (DC)	24 V
• for signal "1", min.	UP - 0.8 V
Output current	
• for signal "1" permissible range for 0 to 55 °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		
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.	1 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 serial		
• Clock frequency, max.	1 MHz		
• Gray code	Yes		
• Cable length, shielded, max.	300 m; at max. 125 kHz		
Potential separation			
Potential separation digital inputs			
• Potential separation digital inputs	No		
Potential separation digital outputs			
• Potential separation digital outputs	No		
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C		
• max.	55 °C		
Ambient temperature during storage/transportation			
• min.	-40 °C		
• max.	70 °C		
connection method			
required front connector	1x 48-pin		
Dimensions			
Width	25 mm		
Height	290 mm		
Depth	210 mm		
Weights			
Weight, approx.	650 g		
Classifications			
		Version	Classification
	eClass	14	27-24-22-05
	eClass	12	27-24-22-05
	eClass	9.1	27-24-22-05
	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	9	EC001422
	ETIM	8	EC001422
	ETIM	7	EC001422
	IDEA	4	3567
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			



[Miscellaneous](#)



[KC](#)



EMV

For use in hazardous locations



[EM](#)



For use in hazardous locations

Marine / Shipping

[Type Examination Certificate](#)



Marine / Shipping

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

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