



SIMATIC S7-300, FM 354 SUBMODULE FOR POSITIONING WITH SERVOMOTORS, MODULE EXCHANGE W/O PG, PREREQUISITE STEP7 V3.1 INCL. CONFIG. PACKAGE ON CD

Supply voltage	
Rated value (DC)	24 V
Input current	
Current consumption, max.	350 mA
Encoder supply	
5 V encoder supply	
• 5 V	Yes
• Output current, max.	220 mA
• Cable length, max.	35 m
24 V encoder supply	
• 24 V	Yes
• Output current, max.	300 mA
• Cable length, max.	100 m
Power loss	
Power loss, typ.	8 W
Digital inputs	
Number of digital inputs	4
Functions	Reference cams, flying actual value setting, flying measurement, start/stop positioning, external block change
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; 6 to 15 mA
Digital outputs	
Number of digital outputs	4
Functions	Position reached: stop, axis travels forward, axis travels back, change M-function M97, change M-function M98, start enable, direct output via data record
Short-circuit protection	Yes
Output voltage	
• Rated value (DC)	24 V
• for signal "1", min.	UP -3 V
Output current	
• for signal "1" permissible range for 0 to 55 °C, max.	0.6 A; with UPmax
• for signal "0" residual current, max.	2 mA
Encoder	
Connectable encoders	

• Incremental encoder (symmetrical)	Yes	
• Absolute encoder (SSI)	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, absolute encoder (SSI)		
• Input signal	5 V difference signal (phys. RS 422)	
• Data signal	DATA, notDATA	
• Clock signal	CL, notCL	
• Telegram length, parameterizable	13, 21 or 25 bit	
• Clock frequency, max.	1.25 Mbit/s	
• Cable length, shielded, max.	100 m; 10 m at 1.25 Mbit/s, 100 m at max. 125 kbit/s	
Drive interface		
Signal Input		
• Type	Input loop controller message, isolated (optocoupler)	
• Function	"Drive ready"	
• Input voltage, rated value (DC)	24 V	
• Input voltage for signal "0"	-3 to +5V	
• Input voltage for signal "1"	+15 to +30 V	
• Input current, for signal "1"	2 to 6 mA	
Analog drive		
Setpoint signal		
— Rated voltage range	-10 to +10V	
— Output current	-3 to +3 mA	
— Cable length, max.	35 m	
Output controller enable		
— Switching voltage, max.	50 V	
— Switching current, max.	1 A	
— Switching capacity, max.	30 VA	
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 20-pin	
Dimensions		
Width	80 mm	
Height	125 mm	
Depth	118 mm	
Weights		
Weight, approx.	550 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	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

EMV

For use in hazardous locations



[China RoHS](#)



For use in hazardous locations

[CCC-Ex](#)



[Miscellaneous](#)

last modified:

12/8/2024