

SIEMENS

Product data sheet**6ES7452-1AH00-0AE0**

SIMATIC S7-400,
FM 452 ELECTRONIC CAM CONTROLLER INCL.
CONFIG. PACKAGE ON CD

Supply voltage	
24 V DC	Yes
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
Digital inputs	
Number/binary inputs	11

Functions	Reference point switch, flying actual value setting/length measurement, brake release, enable track output no. 3 to 10
Input voltage	
Type of voltage / of the input voltage	
Rated value, DC	24 V
for signal "0"	-28.8 to +5 V
for signal "1"	11 to 28.8 V
Input current	
for signal "0", max. (permissible quiescent current)	2 mA
for 2-wire BERO	
for signal "1", typ.	9 mA
Digital outputs	
Number/binary outputs	16
Functions	Cam track
Functionality/short-circuit strength	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 BEROs	Yes
Encoder signals, incremental encoder (symmetrical)	
Trace mark signals	A, notA, B, notB
Zero mark signal	N, notN
Input signal	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	13 or 25 bit serial
Clock frequency, max.	1 MHz
Gray code	1
Cable length, shielded, max.	300 m ; at max. 125 kHz
Galvanic isolation	
Galvanic isolation digital inputs	
Galvanic isolation digital inputs	No
Galvanic isolation digital outputs	
Galvanic isolation digital outputs	No
Ambient conditions	
Operating temperature	
Min.	0 °C
max.	55 °C
Storage/transport temperature	
Min.	-40 °C
max.	70 °C
Relative humidity	
Humidity class F	Yes
Degree and class of protection	
IP20	Yes
Connection method	
required front connector	1x 48-pin
Dimensions	
Width	25 mm

Height	290 mm
Depth	210 mm
Weight	
Weight, approx.	650 g
Status	Aug 25, 2011