



has not been replaced. Please contact your customer care center for more information.

⚠ Restricted Sales for Services

Main

Range of product	Modicon Premium Automation platform
Product or component type	Motion control modules
Product specific application	For servo motors
Servo loop type	Proportional to overshoot compensation and gain switching 2 ms
Checks	Presence of voltage/sensor feedback counter input Consistency of commands Encoder coupling, servo drive present, emergency stop Proper execution of movement Sensor power supply Validity of parameters

Complementary

Speed profile path	Trapezoidal or parabolic
Resolution	<= 1000 position units per point >= 0.5 position units per point
Length of axis	32000...32000000 P
Acquisition speed	>= 54000 points/mn <= 270000 points/mn
Acceleration time	8 ms...10 s
Operating mode	Manual OFF Automatic FOLLOWER Direct drive mode
Type of axis	Following axis static ratio Limited axis
I/O modularity	2 axes
Input compatibility	Absolute encoder SSI output 16...25 bits Incremental encoder 10...30 V totem pole Incremental encoder 5 V DC RS422 With 2-wire/3-wire sensor (24 DC) auxiliary input Absolute encoder parallel output ABE7CPA11
Clock frequency	200 kHz SSI absolute encoder
Incremental encoder frequency x1	500 kHz
Incremental encoder frequency x 4	1000 kHz in counting 250 kHz in input
Power dissipation in W	7.2...11.5 W

Input type	Current sink auxiliary input conforming to EN/IEC 1131 Type 2 Resistive servo drive control input conforming to EN/IEC 1131 Type 1 Resistive counter input
Input logic	Positive
Input voltage	24 V 8 mA auxiliary input 24 V 8 mA servo drive control input 5 V 18 mA counter input
Input voltage limits	<= 5.5 V counter input 19...30 V auxiliary input 19...30 V servo drive control input
Voltage state 1 guaranteed	>= 11 V for auxiliary input >= 11 V for servo drive control input >= 2.4 V for counter input
Current state 1 guaranteed	>= 3.5 mA (servo drive control input) >= 3.7 mA (counter input) >= 6 mA (auxiliary input)
Voltage state 0 guaranteed	<= 1.2 V for counter input <= 5 V for auxiliary input <= 5 V for servo drive control input
Current state 0 guaranteed	<= 1 mA (counter input) <= 1.5 mA (servo drive control input) <= 2 mA (auxiliary input)
Input impedance	270 Ohm for counter input 3000 Ohm for auxiliary input 3000 Ohm for servo drive control input
Number of outputs	2 reflex output static conforming to EN/IEC 61131 2 analogue output static 2 servo drive validation output relay
Analogue output range	+/- 10...24 V
Analogue output resolution	13 bits + sign
LSB value	1.25 mV for analogue output
Output voltage	24 V DC reflex output: 24 V DC servo drive validation output:
Output voltage limits	Reflex output: 19...30 V Servo drive validation output: 5...30 V
Nominal output current	0.5 A for reflex output
Maximum output current	1.5 mA analogue output 200 mA servo drive validation output 625 mA reflex output
Minimum load	1 mA 1 V
Maximum voltage drop	<1 V at state on for reflex output
Maximum leakage current	0.3 mA for reflex output
Switching time	< 5 ms for servo drive validation < 500 µs for reflex output
Output compatibility	Positive logic DC inputs (resistance <= 15 kOhm) for reflex
Short-circuit protection	Current limiter reflex output Thermal tripping reflex output
Output overload protection	Current limiter reflex output Thermal tripping reflex output
Output overvoltage protection	Zener diode between outputs and 24 DC reflex output
Reverse polarity protection	Reflex output: reverse diode on supply
Local signalling	1 LED (green)module operating (RUN): 1 LED (red)external fault (I/O): 1 LED (red)internal fault, module failure (ERR): 2 LEDs (green)axis diagnostics available:
Electrical connection	1 connector HE-10 with 20 pins for aux inputs, reflex output, for external sensor and preactuator power supply 1 connector HE-10 with 20 pins for servo drive ctrl inputs + for ext power supply of servo drive inputs/ outputs 1 connector SUB-D 9 for an analogue output (speed reference) 2 connectors SUB-D 15 for an incremental or absolute encoder
Current consumption	11...20 mA at 24 V DC on 10/30 V absolute encoder module 1100 mA at 5 V DC

15 mA at 24 V DC

Module format	Standard
Net weight	0.48 kg

Environment

Protective treatment	TC
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	5...95 % without condensation
Operating altitude	<= 2000 m

Contractual warranty

Warranty	18 months
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