Data Sheet

safety - control - motion - interface

CT340 / CT641

High performance low cost motion controller for control tasks with rotating cutters and printing rolls

Product Features:

- Easy parameter setting and immediately ready to work with minimum commissioning time
- High accuracy due to high feedback frequency range of 300 kHz with TTL encoders and 200 kHz with HTL encoders
- Extremely smooth motion by optimized S-shape profiles
- High dynamic response by means of short cycle time, therefore accurate cutting results also during change of line speed
- Most compact unit including operator panel for direct access and RS232 interface for remote access
- Analog output, configurable for voltage or current operation
- PROFIBUS DP interface available (option)
- 24 VAC / 17 … 40 VDC power supply

Available Devices:

- **CT340:** Controller with setting of the cutting length by keypad, 14 bits analog output and 4 power transistor outputs for alerts
- **CT641:** Controller with features like CT340, but additional front thumbwheel switches for cutting length and 4 relay outputs for alerts

Technical Specifications:		
Power supply:	Input voltage (AC):	24 VAC +/- 10 %
	Input voltage (DC):	17 … 40 VDC
	Protection circuit::	reverse polarity protection
	Consumption:	100 mA at 24 VDC (unloaded)
	Connections:	screw terminal, 1.5 mm² / AWG 16
Encoder supply:	Number of aux. voltages:	2 (each double-performed)
	Output voltage 1:	24 VDC
	Output current 1:	max. 120 mA each
	Output voltage 2:	5.2 VDC
	Output current 2:	max. 150 mA each
	Connections:	screw terminal, 1.5 mm² / AWG 16
Incremental input:	Signal levels:	HTL: LOW 0 … 2 V, HIGH 10 … 30 V
		TTL: LOW 0 …0.8 V, HIGH 3 … 5 V
		RS422: Differential voltage > 1 V
	Channels:	symmetrical: A, /A, B, /B or asymmetrical: A, B
	Frequency:	RS422 / TTL symmetrical: 300 kHz
		HTL or TTL asymmetrical: 200 kHz
	Internal resistance:	Ri ≈ 8.5 kOhm
	Connections:	screw terminal, 1.5 mm² / AWG 16
Control inputs:	Number of inputs:	4 (configurable)
	Signal levels:	HTL: LOW 0 … 2.5 V, HIGH 10 … 30 V
	Characteristic:	NPN / PNP / Namur
	Internal resistance:	Ri ≈ 3.3 kOhm
	Min. pulse time:	50 µs
	Connections:	screw terminal, 1.5 mm² / AWG 16
Control outputs:	Number of outputs:	4 fast transistor outputs **)
	Protection circuit:	short circuit proof
	Characteristic:	PNP, 5 … 30 V
	Output current:	350 mA each
	Reaction time:	< 1 ms *)
	Connections:	screw terminal, 1.5 mm² / AWG 16
Relay outputs: (only with version CT641)	Number of outputs:	4 potential-free changeovers **)
	Switching capacity:	250 VAC / 1 A / 250 VA or 100 VDC / 1 A / 100 W
	Reaction time:	approx. 10 ms
	Connections:	screw terminal, 2.5 mm² / AWG 14
Analog output:	Voltage output:	+/- 10 V, max. 2 mA
	Current output:	0 / 4 … 20 mA (burden: max. 270 Ohm)
	Resolution:	14 bit (± 13 bit)
	Accuracy	0.1 %
	Reaction time:	< 1 ms *)
	Connections:	screw terminal, 1.5 mm² / AWG 16
Serial interface:	Format:	RS232
	Baud rate (selectable):	600, 1200, 2400, 4800, 9600, 19200, 38400 Baud
	Connections:	screw terminal, 1.5 mm² / AWG 16
Housing:	Type / Material:	Norly UL94-V-0 plastic housing
	Mounting:	panel
	Dimensions CT340:	cut out (w x h): 91 x 44 mm / 3.59 x 1.73 inch
		outer dimensions (w x h x d): 110 x 48 x 141 mm / 4.33 x 1.89 x 5.55 inch
	Dimensions CT641:	cut out (w x h): 89 x 91 mm / 3.50 x 3.59 inch
		outer dimensions (w x h x d): 110 x 96 x 141 mm / 4.33 x 3.78 x 5.55 inch
	Protection class CT340:	front: IP 65 / rear: IP20
	Protection class CT641:	front: IP 20 ***) / rear: IP20
	Accessories:	***) with optional plexiglass cover part # 64026 also IP65 achievable
		option SM300 (mounting bracket for DIN rail mounting of CT340 units)
	Weight:	CT340: approx. 250 g / CT641: approx. 370 g
Ambient temperature:	Operation:	0 °C … +45 °C / +32 … +113 °F (not condensing)
	Storage:	-25 °C … +70 °C / -13 … +158 °F (not condensing)
Conformity & standards:	EMC 2004/108/EC:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
	LV 2006/95/EC:	EN 61010-1
	Guideline 2011/65/EU:	RoHS-conform

*) Continuous serial communication may temporary increase response times **) Diode or RC filtering is mandatory when switching inductive loads