

DATA SHEET

T100 Stator

SPECIAL FEATURES

- One stator fits all concept
- Sampling rate 160 kS/s
- Signal bandwidth up to 15 kHz
- Diagnosis
- Integrated web server for parametrization
- Output signal: Frequency, voltage, current, openDAQ

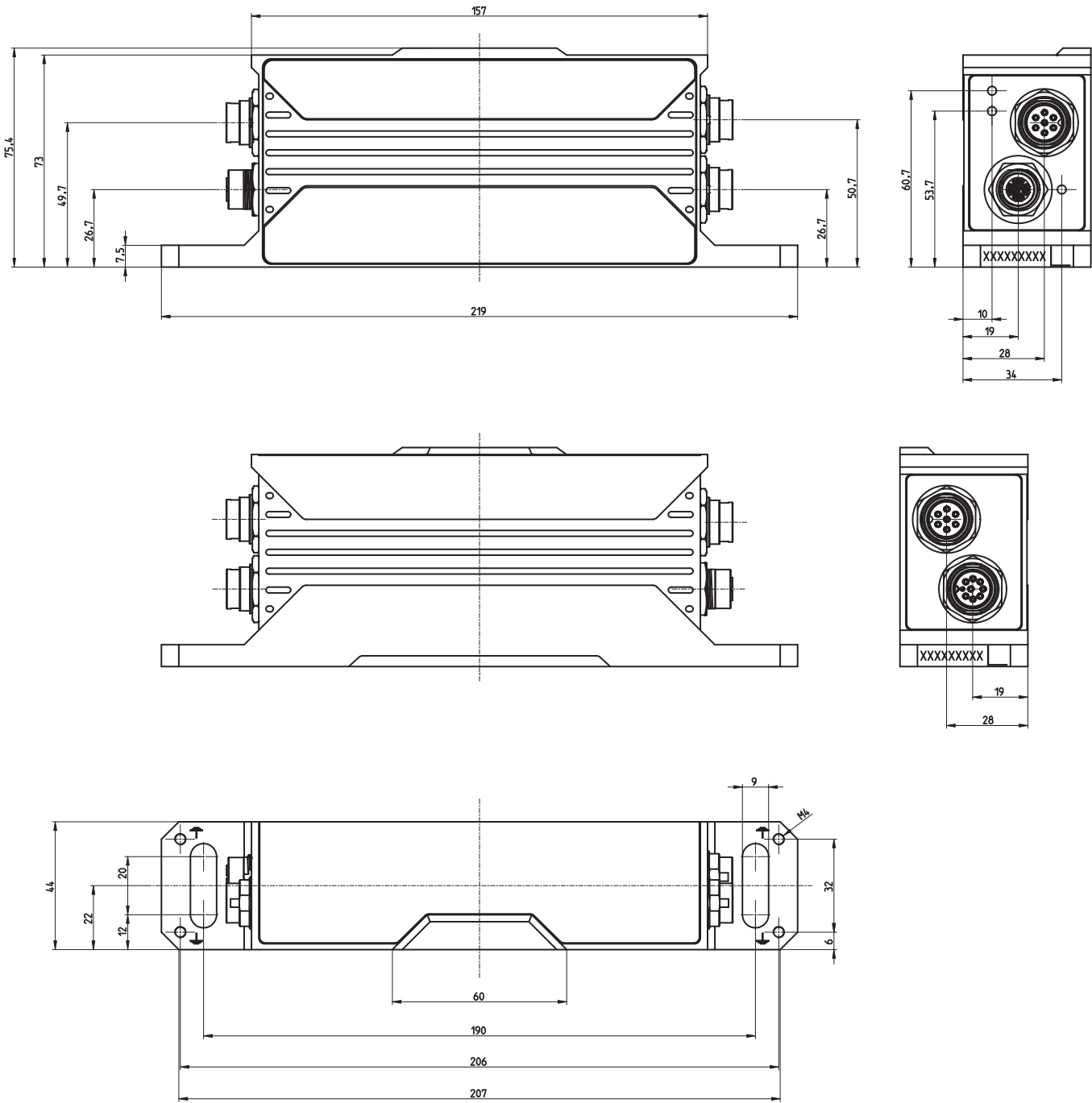


SPECIFICATIONS

Type		T100 Stator
Energy supply		
Nominal (rated) supply voltage (safety extra-low DC voltage)	V	12...30
Current consumption		
Measuring mode	A	<1 ; @24 VDC
Startup mode	A	<2 ; @24 VDC
Nominal (rated) power consumption	W	< 15
Maximum cable length	m	50
General specification		
Sample rate	kS/s	160
Communication/parameterization		
Ethernet		10Base-T/100Base-TX/1000Base-T
Protocol (addressing)		TCP/IP (direct IP address or DHCP)
Connector		1x M12x1, 8-pin, X-coded
Cable type		Standard LAN, CAT5, SFTP
Cable length	m	100
Digital Output		
Streaming, openDAQ™	digital	Streaming protocol LT, openDAQ™ SDK, IPv4/IPv6 network, compliance level C (streaming and device recovery)

Type		T100 Stator
Measurement frequency range (-3 dB)	kHz	15
Permissible cable length; Ethernet	m	100
Frequency Output		
Output signal at torque = zero	kHz	10/60/240
Nominal sensitivity (span between torque = zero and and nominal rated torque)	kHz	5/30/120
Nominal output signal With negative nominal rated torque With negative nominal rated torque	kHz	15/ 90 / 360 (5 V balanced) 5/ 30 / 120 (5 V balanced)
Maximum modulation range	kHz	2.5 ... 17.5 / 15 ... 105 / 60 ... 420
Measurement frequency range (-3 dB)	kHz	1 / 3 / 6 (10)
Permissible input impedance	kΩ	>2
Permissible cable length	m	50
Voltage Output		
Output signal at torque = zero	V	0
Nominal sensitivity (span between torque = zero and and nominal rated torque)	V	10
Nominal output signal With negative nominal rated torque With negative nominal rated torque	V	10 -10
Maximum modulation range	V	-12...+12
Measurement frequency range (-3 dB)	kHz	15
Permissible input impedance	kΩ	>4000 / <2nF
Permissible cable length	m	50
Current Output		
Output signal at torque = zero	mA	12
Nominal sensitivity (span between torque = zero and and nominal rated torque)	mA	8
Nominal output signal With negative nominal rated torque With negative nominal rated torque	mA	20 4
Maximum modulation range	mA	3.8...22
Measurement frequency range (-3 dB)	kHz	15
Permissible input impedance	kΩ	<400
Permissible cable length	m	50
Mechanical values		
Weight	kg	1.1

DIMENSIONS



Dimensions in mm (1 mm = 0.03937 inches)

PRODUCT DESIGNATION (OVERVIEW)

K-T100		
1	Code	Option 1: Component
	STL	Low mounting height
2	Code	Option 2: Electrical configuration
	FAN	Frequency, voltage, current and Ethernet
4	Code	Option 4: Rotational speed measuring system
	0	No rotational speed measuring system
5	Code	Option 5: Customized modification
	0	No customized modification

ACCESSORIES

Accessories to be ordered separately.

Item	Ordering no.
Connection cable, pre-wired	
Torque connection cable, Binder 423 - 15-pin, D-Sub, 6 m	1-KAB149-6
Torque connection cable, Binder 423 - 8-pin, free ends, 6 m	1-KAB153-6
Rotational speed connection cable, Binder 423 - 8-pin, D-Sub, 6 m	1-KAB150-6
Rotational speed connection cable, Binder 423 - 8-pin, free ends, 6 m	1-KAB154-6
Rotational speed connection cable, reference pulse, Binder 423 - 15-pin, D-Sub, 6 m	1-KAB163-6
Rotational speed connection cable, reference pulse, Binder 423 - 8-pin, free ends, 6 m	1-KAB164-6
Cable sockets	
423G-7S, 7-pin (straight)	3-3101.0247
423W-7S, 7-pin (angle)	3-3312.0281
423G-8S, 8-pin (straight)	3-3312.0120
423W-8S, 8-pin (angle)	3-3312.0282
Connection cable, by the meter (min. order quantity: 10 m, price per meter)	
Kab8/00-2/2/2	4-3301.0071

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