



esiMot micro

**Brushless servo motor
with integrated electronics**

*super small,
compact, versatile*

- Integrated positioning
- Speed and torque controller
- Digital 4-Q controller
- 0.0625 ... 0.25 Nm
- 4000 rpm
- 24 VDC
- PROFINET, optionally EtherCAT CoE
- Holding brake on request
- 42 mm flange

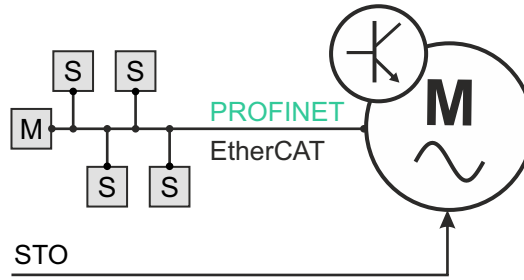
**PROFI[®]
NET**

EtherCAT[®]



esiMot micro

Features



Characteristics	Integrated servo-amplifier	✓
	Integrated positioning logic (position loop)	✓
	Digital 4-Q speed and torque regulator	✓
	Position acquisition	
	- Singleturn absolute encoder	✓
	- Multiturn absolute encoder	□
	Field bus	
	PROFINET	□
	EtherCAT	□
	Integrated ballast circuit and -resistor	✓
	Wrong polarity protection	✓
	Safe Torque Off EN13849-1, Categorie 3, PL e	✓
	Stand still brake	◇
RS232 Programmng interface (19,2 kBaud)	✓	

Functions and Programming	Programming via RS232 interface	✓
	Programming via fieldbus	✓
	Reference run management	✓
	Automatic brake management	□
	Free programmable move records	32
	- Velocity	✓
	- Acceleration/Deceleration (separate adjustable)	✓
	- Dwell time	✓
	- On-the-fly record change	✓
	Regulation modes	
	- Position (4Q)	✓
	- Modulo Position	✓
	- Speed, torque (PI-regulation)	✓

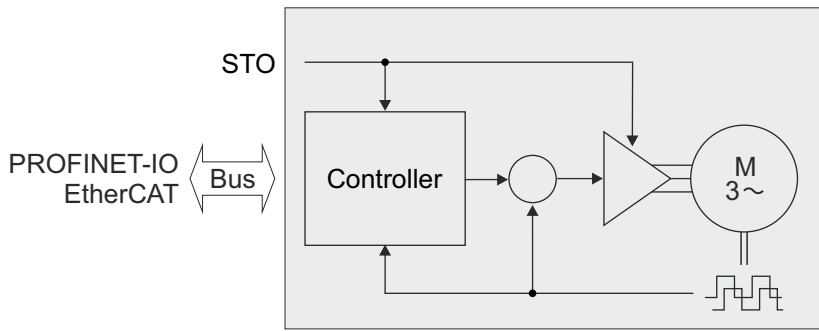
Monitoring	Status LEDs	4
	Signalling e.g. for:	
	- Motor temperature	✓
	- Output stage temperature	✓
	- Ballast power internal	✓
	- Overvoltage/Undervoltage	✓
	Elapsed hour meter	✓
Elektronic type plate	✓	

Accessories	Progammng and parametrizing PC-software ServoLink	□
	Assembled feed cable	□
	Fitted gear boxes	□
	RS232-USB Converter	□

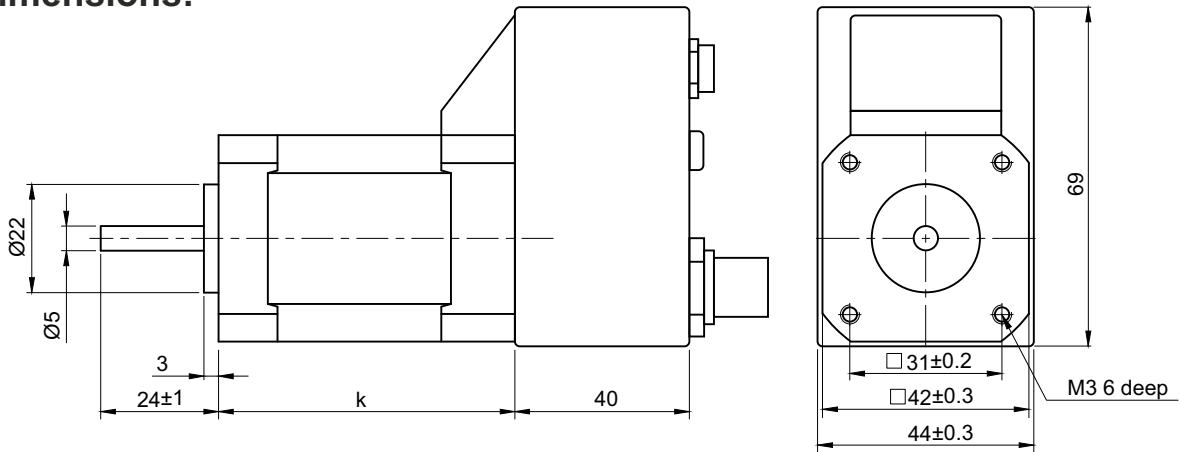
- ✓ = Standard
- = Option
- ◇ = On request
- = Not possible

Technical Data	esiMot micro	Size	02/4	04/4	06/4	08/4
	Rated power(S1)	[W]	26	52	75	105
	Rated torque	[Nm]	0,0625	0,125	0,18	0,25
	Peak torque	[Nm]	0,18	0,38	0,55	0,75
	Rated speed	[min ⁻¹]	4000	4000	4000	4000
	Inertia	[gcm ²]	24	48	67	89
	Motor supply	[VDC]	24	24	24	24
	Rated current	[A]	1,8	3,5	5,1	6,7
	Peak current	[A]	5,4	10,6	15,5	20
	Resolution without encoder	[lpr]	30	30	30	30
	Resolution with absolute encoder	[lpr]	4096	4096	4096	4096
	Number of revolutions		2 ⁴⁰	2 ⁴⁰	2 ⁴⁰	2 ⁴⁰
	Protection class		IP 54	IP 54	IP 54	IP 54
	Weight	[kg]	0,45	0,60	0,80	0,90

Structure:

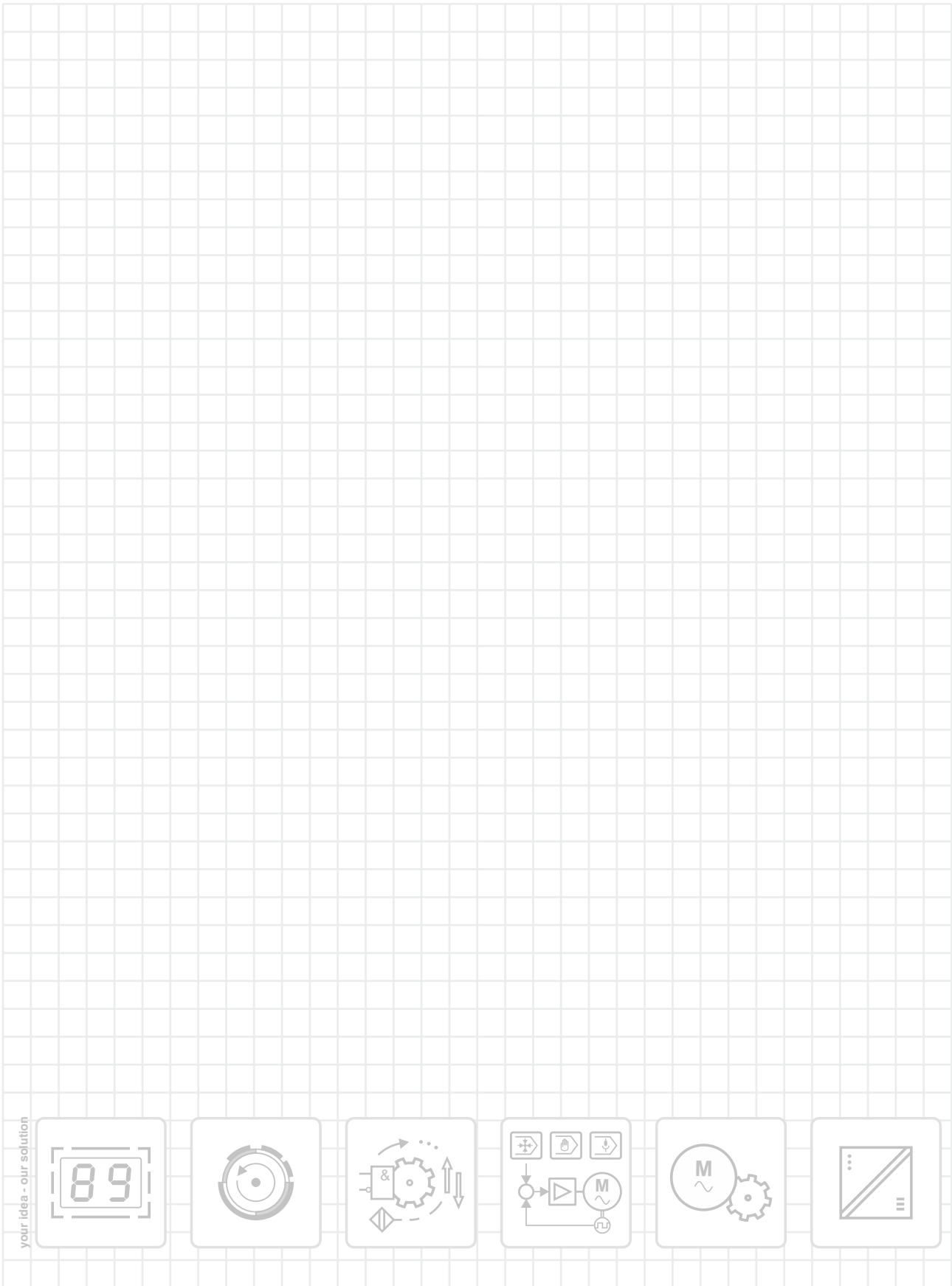


Dimensions:



Size	k
esiMot 02/4	41
esiMot 04/4	60,5
esiMot 06/4	80,5
esiMot 08/4	100

Notes



All data in this folder are of informative character without warranty of characteristics. Changes without previous announcement reserved.

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