

EC Motor Ø 40/L 100

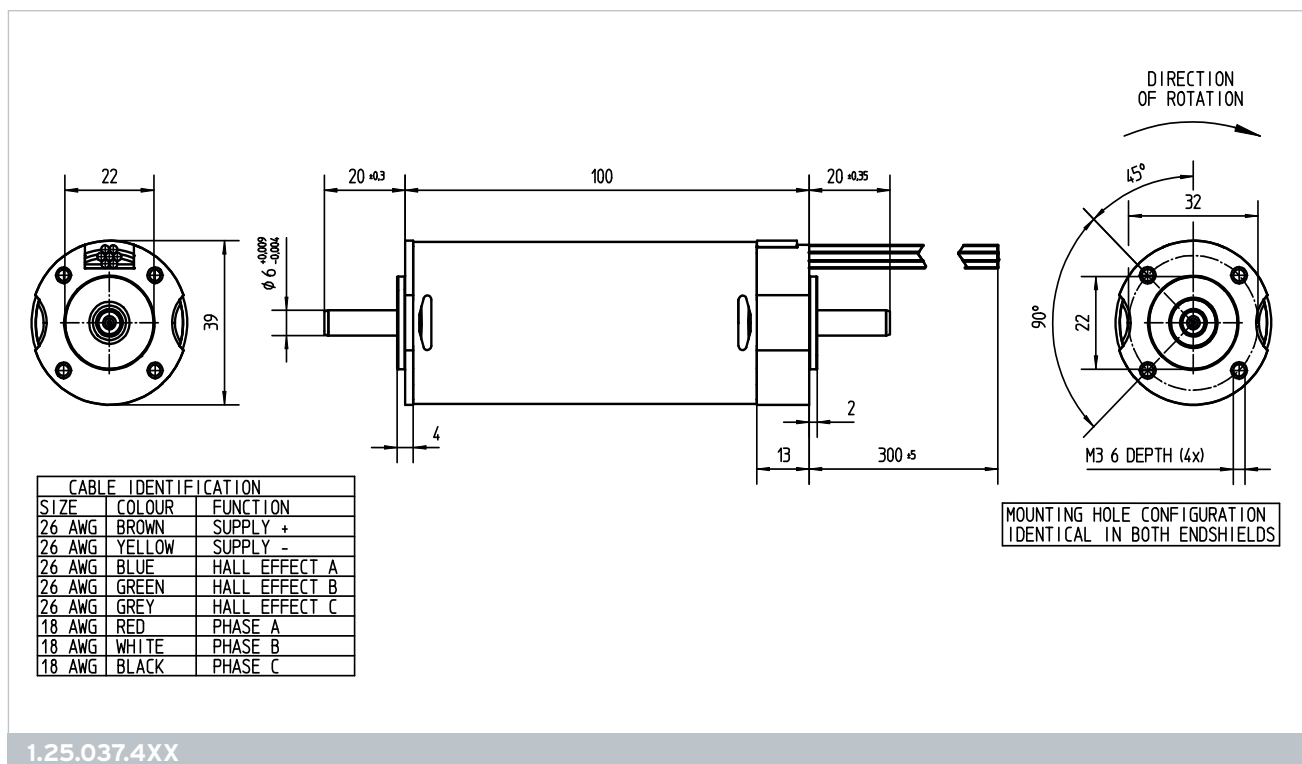
1.25.037.4XX



Design	
Commutation	3 Hall sensors
Protection class	up to IP40
Rotor	4 pole-pairs, bonded NeFeB magnets
Stator	3 phase, star connection
Housing	Steel, corrosion protected
End shields	zinc die-cast
Bearings	Ball bearing
Shaft	6 mm
Direction of rotation	Bidirectional, no phase advance
Electrical connection	300 mm flying leads, exit axial/radial from rear

Type 1.25.037.XXX			403
Characteristics*			
Rated voltage	V	V	24
Rated power	P_N	W	95
Rated torque	T_N	mNm	200
Rated speed	n_N	rpm	4500
Rated current	I_N	A	5.3
No load characteristics*			
No load speed	n_o	rpm	6600
No load current	I_o	A	0.6
Starting characteristics*			
Starting torque	T_s	mNm	1000
Starting current	I_s	A	26
Performance characteristics*			
Max. power	P_{max}	W	155
Max. efficiency	η_{max}	%	74
Motor parameters*			
Weight	G	g	500
Rotor Inertia	J	gcm ²	52
Shaft axial force	F_A	N	50
Shaft radial force, 15 mm from mounting surface	F_R	N	120
Max. environment temperature	T_{emax}	°C	65
Min. environment temperature	T_{emin}	°C	-30

* at 25 °C



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Customized versions

The following modifications are available upon request:

- ▶ **Shaft:** Available with custom length, splines and keyways etc.
- ▶ **Rear shaft exit:** Available with custom length, splines and keyways etc.
- ▶ **Direction of rotation:** Unidirectional, with fixed phase advance to suit performance requirements
- ▶ **Brake:** Upon request
- ▶ **Encoder:** Upon request
- ▶ **Custom winding:** For specific rated voltage and performance characteristics
- ▶ **Interface:** Custom adaptors and mounting interfaces and actuation available
- ▶ **Sealing:** Improved sealing (protection class) available
- ▶ **Operating conditions:** Harsh environment options available on request
- ▶ **Electrical connection:** Custom lead length and termination connector