

## EC Motor Ø 40

## 1.25.037.XXX



1.25.037.XXX

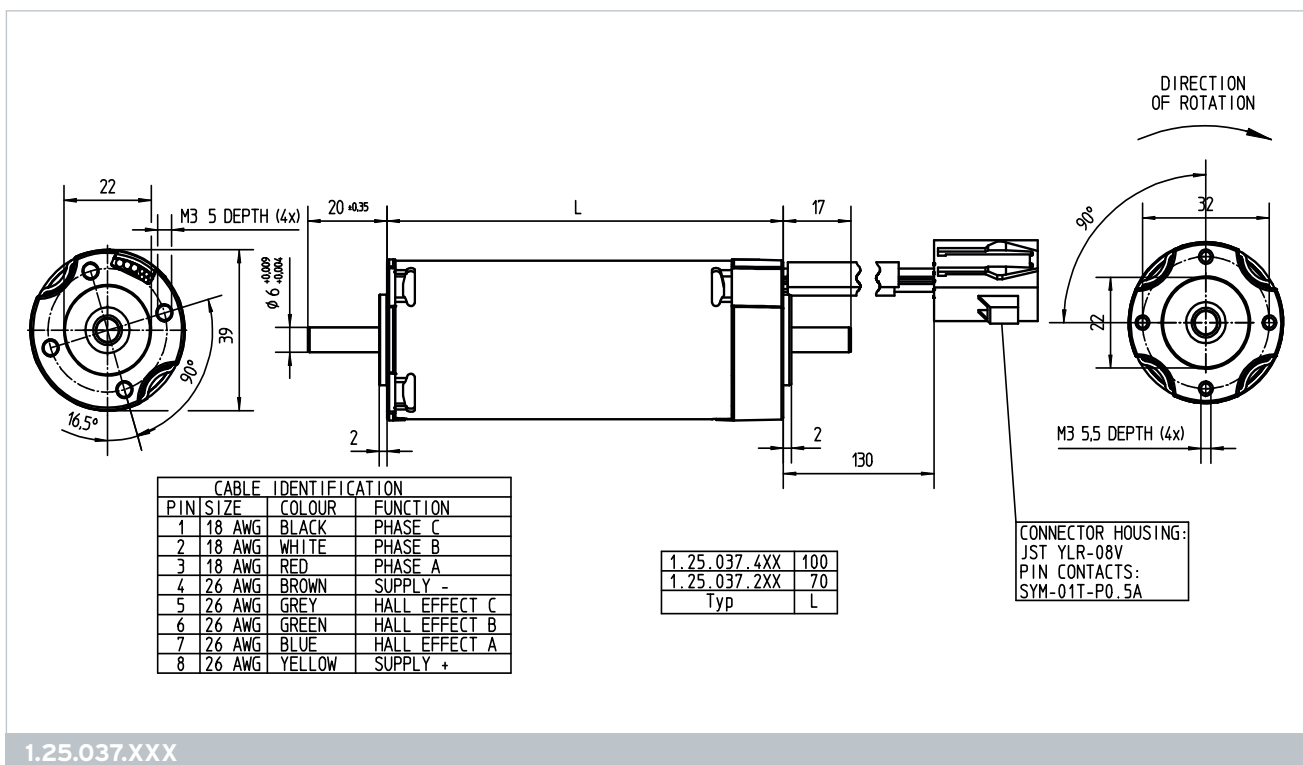
Design	
Commutation	3 Hall sensors
Protection class	up to IP40
Rotor	4 pole-pairs, bonded NeFeB magnets
Stator	3 phase, star connection
Housing	Steel, corrosion protected
End shields	B-side plastic, drive end zinc die-cast
Bearings	2 preloaded ball bearings
Shaft	6 mm
Direction of rotation	Bidirectional, no phase advance
Electronical connection	300 mm flying leads, exit axial/radial from rear

Type 1.25.037.XXX			203	403
<b>Characteristics*</b>				
Rated voltage	V	V	24	24
Rated power	$P_N$	W	50	90
Rated torque	$T_N$	mNm	80	200
Rated speed	$n_N$	rpm	5700	4400
Rated current	$I_N$	A	3.3	5.0
<b>No load characteristics*</b>				
No load speed	$n_o$	rpm	8200	6500
No load current	$I_o$	A	<0.5	0.6
<b>Starting characteristics*</b>				
Starting torque	$T_s$	mNm	500	1000
Starting current	$I_s$	A	18	27
<b>Performance characteristics*</b>				
Max. Output power	$P_{max}$	W	105	170
Max. Constant torque	$T_{max}$	mNm	80	200
<b>Motor parameters*</b>				
Weight	G	g	400	500
Rotor Inertia	J	gcm <sup>2</sup>	30	52

## Operational conditions

Temperature range	T	°C	-20 - +65
Axial force	$F_A$	N	50
Radial force, 15 mm from mounting surface	$F_R$	N	120

\* at 25 °C



## Customized versions

The following modifications are available upon request:

- ▶ Encoder or brake possible
- ▶ Speed adjustment by winding change
- ▶ Modification of shaft length on both ends
- ▶ Modification of shaft configuration (flat, groove, etc.)
- ▶ Assembly of gears, pinions, worms, etc.
- ▶ Improved sealing (protection class) available