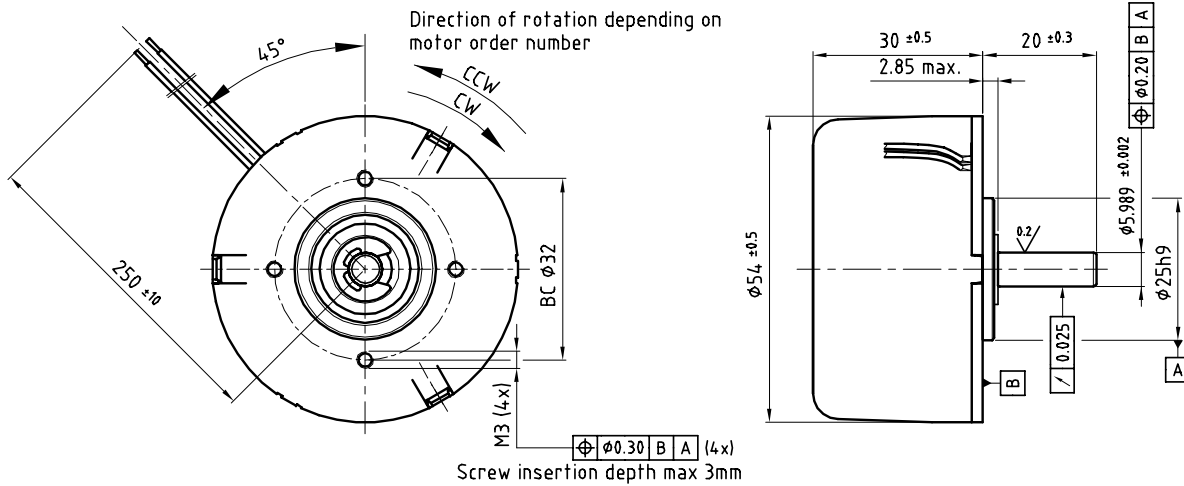


## Dimensional drawing



## Motor data

Motor order number	CW	4322 016 +	48005	48015
	CCW	4322 016 +	48001	48011
Nominal voltage	[V]	12	12	24
Voltage range	[V]	10 .. 15	10 .. 15	14 .. 28
Max. output power <sup>1)</sup>	[W]	8	8	8
No load speed	[rpm]	4550	4550	4550
No load current	[mA]	205	205	125
Min. starting torque	[mNm]	35	35	38
Nominal torque	[mNm]	22	22	22
Nominal speed	[rpm]	3000	3000	3000
Nominal current	[A]	0.98	0.98	0.50
Max. current limit	[A]	1.47	1.47	0.74
Max. continuous torque <sup>1)</sup>	[mNm]	30	30	30
Torque constant	[mNm/A]	27.1	27.1	54.9
Rotor inertia	[kgm <sup>2</sup> ]	22x10 <sup>-6</sup>	22x10 <sup>-6</sup>	22x10 <sup>-6</sup>
Mechanical time constant	[ms]	65	65	45
Max. flange temperature <sup>1)</sup>	[°C]	85	85	85

All relevant values in above table are valid for nominal supply voltages and Tamb.=22°C

<sup>1)</sup> For thermal reasons it is advised to mount the motor on a heat conducting frame if high output power is desired.

Maximum radial load 15 mm from mounting front at 3000 rpm	[N]	40
Mass of motor	[g]	195

## Electrical Connection

Lead colour	Function	Description
red	supply voltage	AWG 24
blue	ground	AWG 24

## Product combinations

- \* Gearbox P42A
- \* Gearbox S64A
- \* Gearbox S69A

## Options

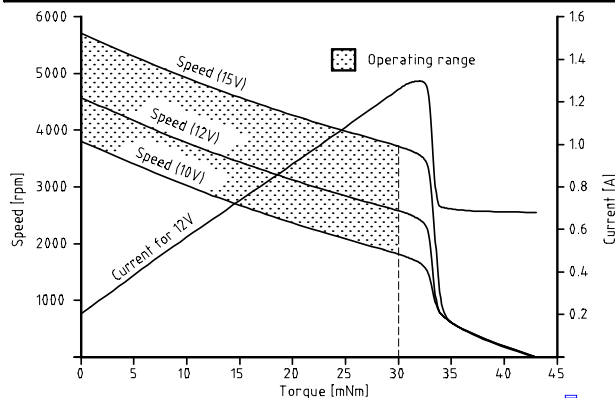
- \* Special shafts, diameter 3...6 mm
- \* 4-wire versions with an extra lead for Frequency Generator output and a lead for speed adjustment (PWM control of motor voltage)
- \* Direction of rotation pre-set (internal)
- \* Square foot mounting flange

## Features

- \* 2 wire concept
- \* Long life (up to 20.000 hours)
- \* EMC compliance with standards EN 55011, EN 55022 and EN 50082-1 <sup>2)</sup>
- \* Resistant against short-term wrong connection
- \* Protection class IP30

<sup>2)</sup> Capacitor of 1000 µF (for 12 V motor) or 470 µF (for 24 V motor) needed at the outlet of the power supply.

## Performance curves of 12 V versions



## Performance curves of 24 V versions

