

## Buehler - 1.61.046.XXX DC gear motor



- Compact gear motor
- Up to 420 mNm
- 35mm diameter
- Low noise, reversible

### Description

A compact in-line gear motor.

All metal housing with metal and plastic gears

2 pole metal cased motor with carbon brushes

### Technical data

Voltage	Part number	Rated current	Rated torque	Rated speed	No load speed	Max torque	Gear ratio	Gear stages
DC		Amps	mNm	rpm	rpm	mNm		
12	1.61.046.311	0.700	25	1040	1710	35	2.9	1
12	1.61.046.312	0.600	70	335	500	98	9.9	2
12	1.61.046.313	0.500	150	121	160	210	30.8	3
12	1.61.046.314	0.390	300	43.5	52.0	420	96.0	4
12	1.61.046.315	0.220	300	15.5	16.5	420	299.0	5
18	1.61.046.321	0.470	25	1040	1710	35	2.9	1
18	1.61.046.322	0.400	70	335	500	98	9.9	2
18	1.61.046.323	0.340	150	121	160	210	30.8	3
18	1.61.046.324	0.260	300	43.5	52.0	420	96.0	4
18	1.61.046.325	0.150	300	15.5	16.5	420	299.0	5
24	1.61.046.331	0.350	25	1040	1710	35	2.9	1
24	1.61.046.332	0.300	70	335	500	98	9.9	2
24	1.61.046.333	0.250	150	121	160	210	30.8	3
24	1.61.046.334	0.195	300	43.5	52.0	420	96.0	4
24	1.61.046.335	0.110	300	15.5	16.5	420	299.0	5

Temperature range	°C	-10 to +70
Axial force	N	15
Radial force (5mm from mounting surface)	N	40

All performance figures are recorded at an ambient temperature of 25°C

## Information

Weight	150g
Gear Housing	Zinc die cast
Commutator	7 segment copper
RFI Protection	2 chokes
Insulation class	winding H, other A
Protection class	IP40
Commutation	carbon brushes
Armature	straight slot
Magnet	permanent magnet, 2 poles
Bearings	sintered bronze
Motor housing	corrosion protected steel
Motor end shields	brush end plastic, drive end die cast zinc
Spur gear	metal and plastic
Output shaft axial play	0.05 - 0.6mm

## Dimensions

