

# BCI-Motors



# BCI motor – the complete drive solution with a design made to order



## Technical Information

Apart from providing exceptional value for money, the mechanically commutated internal rotor BCI motors provide everything expected in a genuine ebm-papst motor:

Reliable technology with reliable development and application services, as well as accessories to suit your specific needs from drives, to brakes, to speed sensors.

The new DC motors operate with special economic efficiency in industrial automation, robotics, mechanical and plant engineering, in chemical and medical engineering, in laboratory equipment, house automation as well as in the textile and printing industries.

The modern armature design with an 8- or 12-piece commutator and special carbon qualities guarantee flawless, durable service. The brush unit for the commutation is mounted on a special pcb. BCI motors are designed in line with EMC regulations and where additional EMC screening is required additional components for interference suppression can be mounted on the same PCB.

The permanent magnet BCI motors can be used within a wide range of speeds. Thanks to their minimal cogging torque, they are excellently suitable for lower speeds and provide exceptionally smooth running characteristics. In addition, with their high overload capacity in short-time operation, BCI motors offer excellent dynamic properties.

BCI motors are equipped with high-quality precision ball-bearings with long-term lubrication. The closed ball-bearings are additionally protected against carbon dust by covers on both sides. This reduces the wear, consequently increasing the service life.

Industry standard zinc diecast flanges with mounting holes in several pitch circles ensure ease of assembly of the motor. Mounting by using blind holes and self threading screws.

Shoulders on both sides of the shaft and a special bearing system are designed to protect the armature system against excessive axial load. High axial forces on the shaft no longer inevitably lead to the destruction of the motor.

### In brief and straight to the point

- Designed for 12, 24, 40 and 60 V DC
- Service life 3.000 hrs for nominal operation
- Operation in both directions of rotation
- Radio interference suppression optionally on request
- Temperature class B, VDE 0530
- Protection class IP 40, optionally higher

# Contents

The versatile range of BCI motors consists of three lines with diameters of 42 mm, 52 mm and 63 mm, each in two overall lengths. In addition to worm gears, spur gears and planetary gears, the extensive system range includes components such as magnetic sensors, encoders and brakes. Based on this complex drive solutions for almost all drive applications can be realized.



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# BCI-Motor

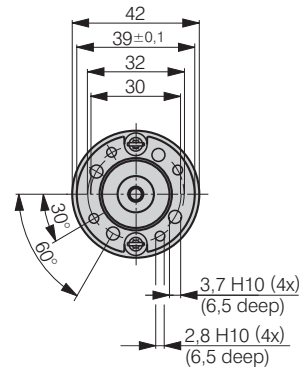
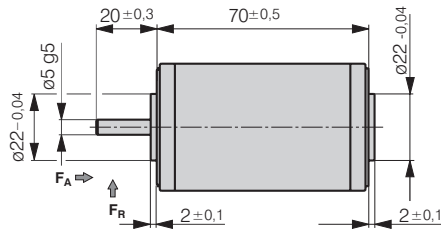
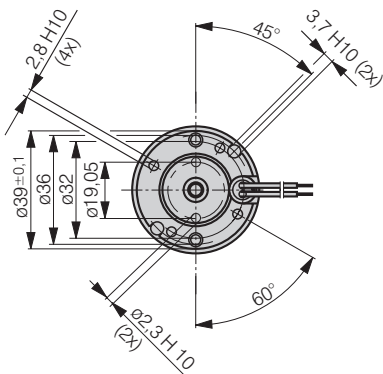
BCI 42.25



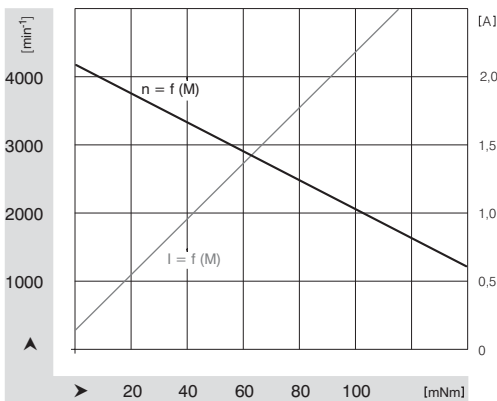
- DC motor with ferrite permanent magnets.
- Mechanical commutation through 8-piece collector.
- Closed steel motor housing with zinc diecast bearing flanges.
- Operation in both directions of rotation.
- Service life 3.000 hrs for continuous operation (S1).
- Insulation class B.
- Protection class IP 40, optionally higher.

## Nominal Data

Type BCI 42.25		12 V DC	24 V DC	40 V DC	60 V DC
Nominal speed	min <sup>-1</sup>	3300	3300	3450	3450
Nominal torque	mNm	38	38	38	38
Nominal output power	W	13	13	14	14
Nominal current	A	1.80	0.85	0.55	0.35
Nominal efficiency approx.	%	60	64	66	66
Free-running speed	min <sup>-1</sup>	4200	4200	4200	4200
Free-running current	A	0.30	0.19	0.11	0.07
Starting torque	mNm	200	210	230	230
Starting current	A	7.6	4.0	2.6	1.7
Rotor moment of inertia	gcm <sup>2</sup>	74	74	74	74
Mass	kg	0.4	0.4	0.4	0.4
Order No.		931 4225 002	931 4225 001	931 4225 003	931 4225 004



## Motor curves for 24 V



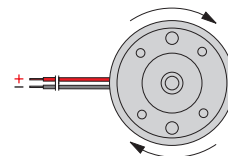
### Max. permissible shaft load

$F_A$  – axial load 30 N  
 $F_R$  – radial load 60 N, 20 mm from motor flange

Blind holes for self threading screws according to DIN 7500

### Electrical connection

Direction of rotation, clockwise as viewed onto the drive shaft  
 Cable length  $300 \pm 30$  from motor  
 Cable length  $7 \pm 2$  stripped and tin-coated



# BCI-Motor

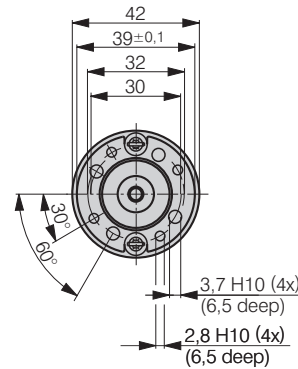
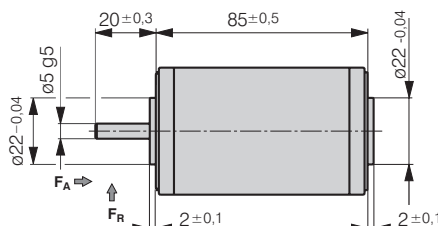
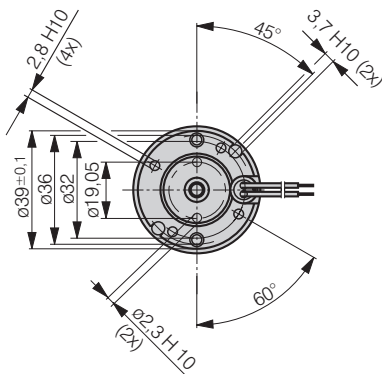
BCI 42.40



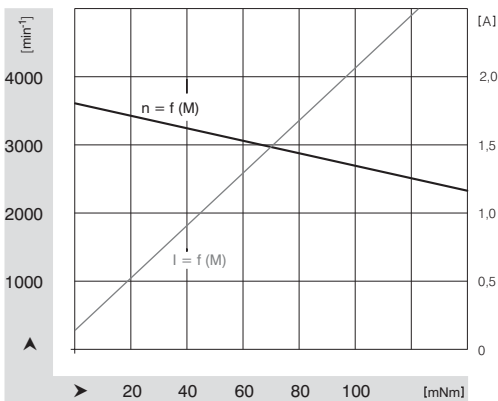
- DC motor with ferrite permanent magnets.
- Mechanical commutation through 8-piece collector.
- Closed steel motor housing with zinc diecast bearing flanges.
- Operation in both directions of rotation.
- Service life 3.000 hrs for continuous operation (S1).
- Insulation class B.
- Protection class IP 40, optionally higher.

## Nominal Data

Type BCI 42.40		12 V DC	24 V DC	40 V DC	60 V DC
Nominal speed	min <sup>-1</sup>	3150	3100	3175	3100
Nominal torque	mNm	57	57	57	57
Nominal output power	W	19	18.5	19	18.5
Nominal current	A	2.5	1.2	0.7	0.45
Nominal efficiency approx.	%	64	65	68	67
Free-running speed	min <sup>-1</sup>	3850	3600	3700	3670
Free-running current	A	0.27	0.17	0.11	0.07
Starting torque	mNm	330	360	390	390
Starting current	A	11.2	5.9	4.0	2.5
Rotor moment of inertia	gcm <sup>2</sup>	115	115	115	115
Mass	kg	0.5	0.5	0.5	0.5
Order No.		931 4240 002	931 4240 001	931 4240 003	931 4240 004



## Motor curves for 24 V



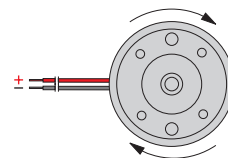
### Max. permissible shaft load

$F_A$  – axial load 30 N  
 $F_R$  – radial load 60 N, 20 mm from motor flange

Blind holes for self threading screws according to DIN 7500

### Electrical connection

Direction of rotation, clockwise as viewed onto the drive shaft  
 Cable length  $300 \pm 30$  from motor  
 Cable length  $7 \pm 2$  stripped and tin-coated



# BCI-Motor

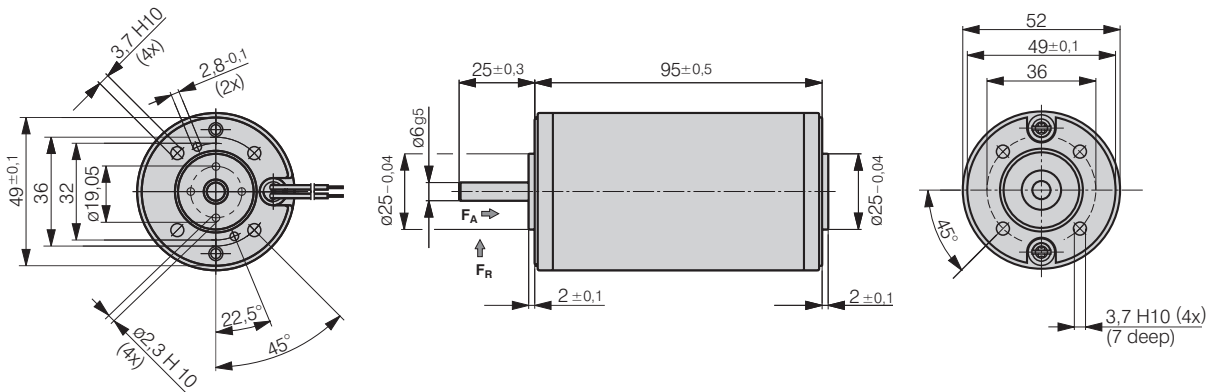
BCI 52.30



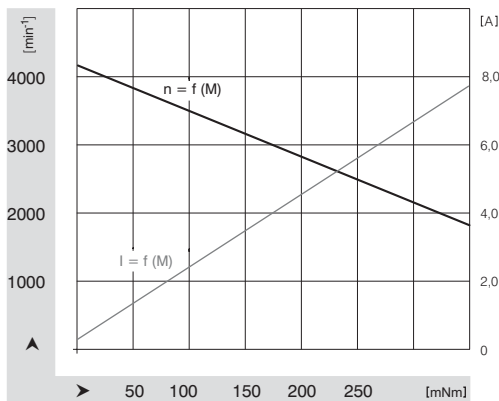
- DC motor with ferrite permanent magnets.
- Mechanical commutation through 12-piece collector.
- Closed steel motor housing with zinc diecast bearing flanges.
- Operation in both directions of rotation.
- Service life 3.000 hrs for continuous operation (S1).
- Insulation class B.
- Protection class IP 40, optionally higher.

## Nominal Data

Type BCI 52.30		12 V DC	24 V DC	40 V DC	60 V DC
Nominal speed	min <sup>-1</sup>	3450	3600	3800	3880
Nominal torque	mNm	100	100	100	100
Nominal output power	W	36	37.5	40	41
Nominal current	A	4.75	2.30	1.40	0.95
Nominal efficiency approx.	%	65	68	71	72
Free-running speed	min <sup>-1</sup>	4200	4200	4200	4200
Free-running current	A	0.48	0.30	0.17	0.12
Starting torque	mNm	550	650	750	790
Starting current	A	20.8	12.0	8.8	5.9
Rotor moment of inertia	gcm <sup>2</sup>	230	230	230	230
Mass	kg	0.9	0.9	0.9	0.9
Order No.		931 5230 002	931 5230 001	931 5230 003	931 5230 004



## Motor curves for 24 V



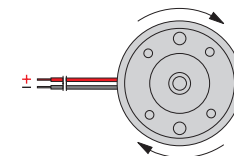
### Max. permissible shaft load

$F_A$  – axial load 90 N  
 $F_R$  – radial load 130 N, 20 mm from motor flange

Blind holes for self threading screws according to DIN 7500

### Electrical connection

Direction of rotation, clockwise as viewed onto the drive shaft  
 Cable length  $300 \pm 30$  from motor  
 Cable length  $7 \pm 2$  stripped and tin-coated



# BCI-Motor

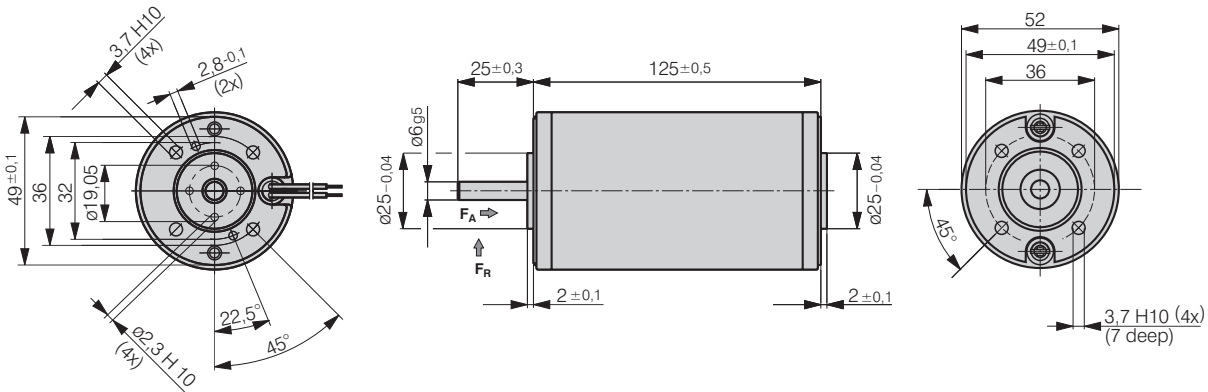
BCI 52.60



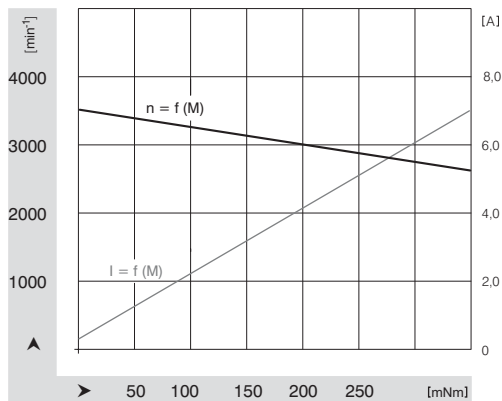
- DC motor with ferrite permanent magnets.
- Mechanical commutation through 12-piece collector.
- Closed steel motor housing with zinc diecast bearing flanges.
- Operation in both directions of rotation.
- Service life 3.000 hrs for continuous operation (S1).
- Insulation class B.
- Protection class IP 40, optionally higher.

## Nominal Data

Type BCI 52.60		12 V DC	24 V DC	40 V DC	60 V DC
Nominal speed	min <sup>-1</sup>	2900	3100	3400	3350
Nominal torque	mNm	170	170	170	170
Nominal output power	W	52	55	61	60
Nominal current	A	6.8	3.4	2.0	1.3
Nominal efficiency approx.	%	66	68	77	78
Free-running speed	min <sup>-1</sup>	3800	3500	3700	3670
Free-running current	A	0.60	0.30	0.20	0.13
Starting torque	mNm	800	980	1400	1400
Starting current	A	27.6	16.0	15.2	9.7
Rotor moment of inertia	gcm <sup>2</sup>	460	460	460	460
Mass	kg	1.1	1.1	1.1	1.1
Order No.		931 5260 002	931 5260 001	931 5260 003	931 5260 004



## Motor curves for 24 V



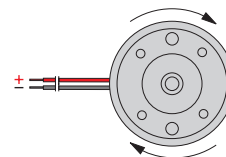
### Max. permissible shaft load

$F_A$  – axial load 90 N  
 $F_R$  – radial load 130 N, 20 mm from motor flange

Blind holes for self threading screws according to DIN 7500

### Electrical connection

Direction of rotation, clockwise as viewed onto the drive shaft  
 Cable length  $300 \pm 30$  from motor  
 Cable length  $7 \pm 2$  stripped and tin-coated



# BCI-Motor

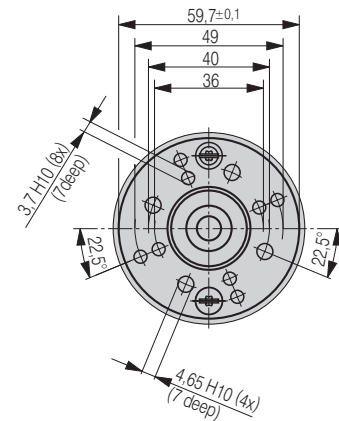
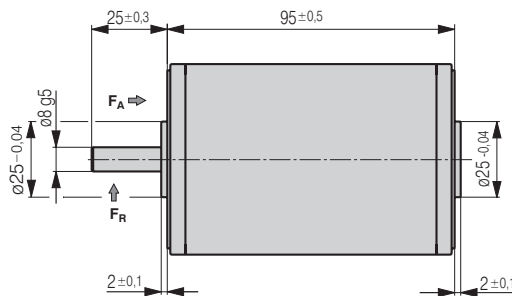
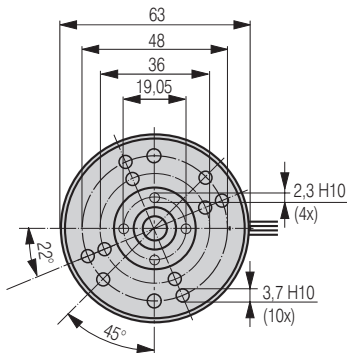
BCI 63.25



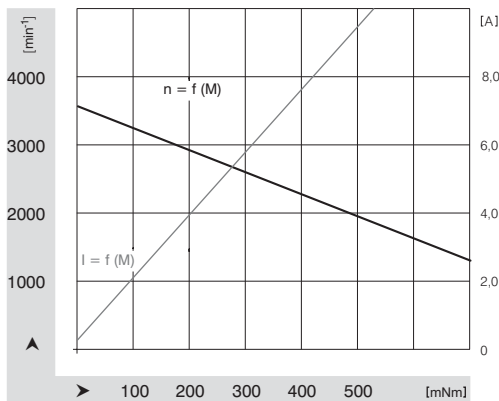
- DC motor with ferrite permanent magnets.
- Mechanical commutation through 12-piece collector.
- Closed steel motor housing with zinc diecast bearing flanges.
- Operation in both directions of rotation.
- Service life 3.000 hrs for continuous operation (S1).
- Insulation class B.
- Protection class IP 40, optionally higher.

## Nominal Data

Type BCI 63.25		12 V DC	24 V DC	40 V DC	60 V DC
Nominal speed	min <sup>-1</sup>	3150	3150	3500	3300
Nominal torque	mNm	140	140	140	140
Nominal output power	W	45	46	52	48.5
Nominal current	A	5.4	2.7	1.8	1.1
Nominal efficiency approx.	%	70	72	73	73
Free-running speed	min <sup>-1</sup>	3600	3600	3800	3600
Free-running current	A	0.6	0.3	0.2	0.15
Starting torque	mNm	840	1100	1100	1100
Starting current	A	28.0	17.5	12.0	7.4
Rotor moment of inertia	gcm <sup>2</sup>	400	400	400	400
Mass	kg	1.2	1.2	1.2	1.2
Order No.		931 6325 002	931 6325 001	931 6325 003	931 6325 004



## Motor curves for 24 V



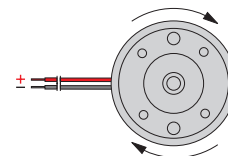
### Max. permissible shaft load

$F_A$  – axial load 150 N  
 $F_R$  – radial load 150 N, 20 mm from motor flange

Blind holes for self threading screws according to DIN 7500

### Electrical connection

Direction of rotation, clockwise as viewed onto the drive shaft  
 Cable length  $300 \pm 30$  from motor  
 Cable length  $7 \pm 2$  stripped and tin-coated





# BCI-Motor

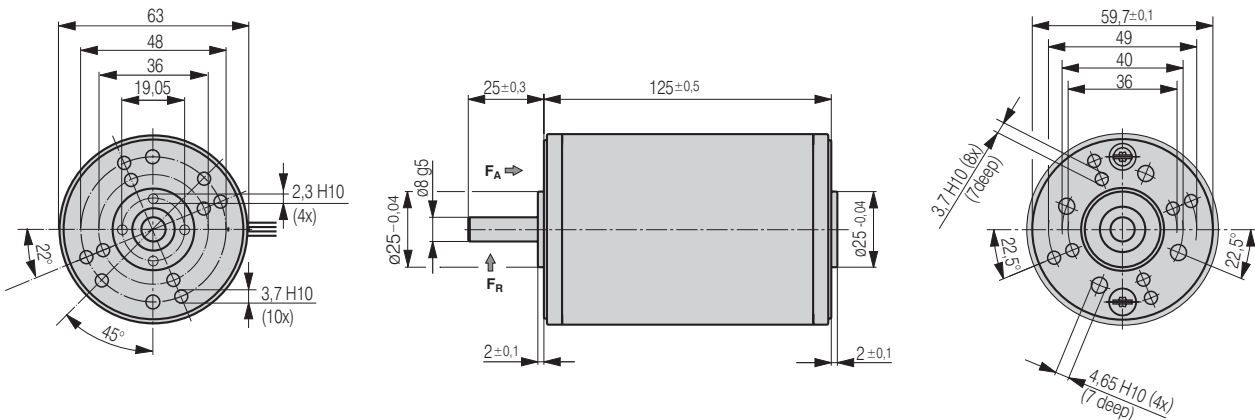
BCI 63.55



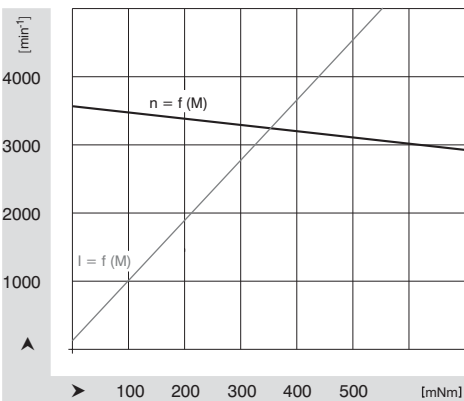
- DC motor with ferrite permanent magnets.
- Mechanical commutation through 12-piece collector.
- Closed steel motor housing with zinc diecast bearing flanges.
- Operation in both directions of rotation.
- Service life 3.000 hrs for continuous operation (S1).
- Insulation class B.
- Protection class IP 40, optionally higher.

## Nominal Data

Type BCI 63.55		12 V DC	24 V DC	40 V DC	60 V DC
Nominal speed	min <sup>-1</sup>	3200	3300	3500	3400
Nominal torque	mNm	240	270	270	270
Nominal output power	W	80	93	100	97
Nominal current	A	9.0	4.9	3.2	1.95
Nominal efficiency approx.	%	75	79	79	82
Free-running speed	min <sup>-1</sup>	3600	3600	3600	3600
Free-running current	A	0.9	0.4	0.3	0.2
Starting torque	mNm	1900	2550	2900	3100
Starting current	A	63.0	40.0	28.8	19.7
Rotor moment of inertia	gcm <sup>2</sup>	750	750	750	750
Mass	kg	1.7	1.7	1.7	1.7
Order No.		931 6355 002	931 6355 001	931 6355 004	931 6355 003



## Motor curves for 24 V



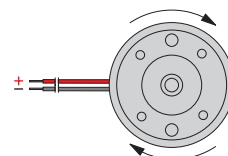
### Max. permissible shaft load

$F_A$  – axial load 150 N  
 $F_R$  – radial load 150 N, 20 mm from motor flange

Blind holes for self threading screws according to DIN 7500

### Electrical connection

Direction of rotation, clockwise as viewed onto the drive shaft  
 Cable length 300 ± 30 from motor  
 Cable length 7 ± 2 stripped and tin-coated



# BCI-Motor

BCI 42.25 A Spur gearbox 24 V DC



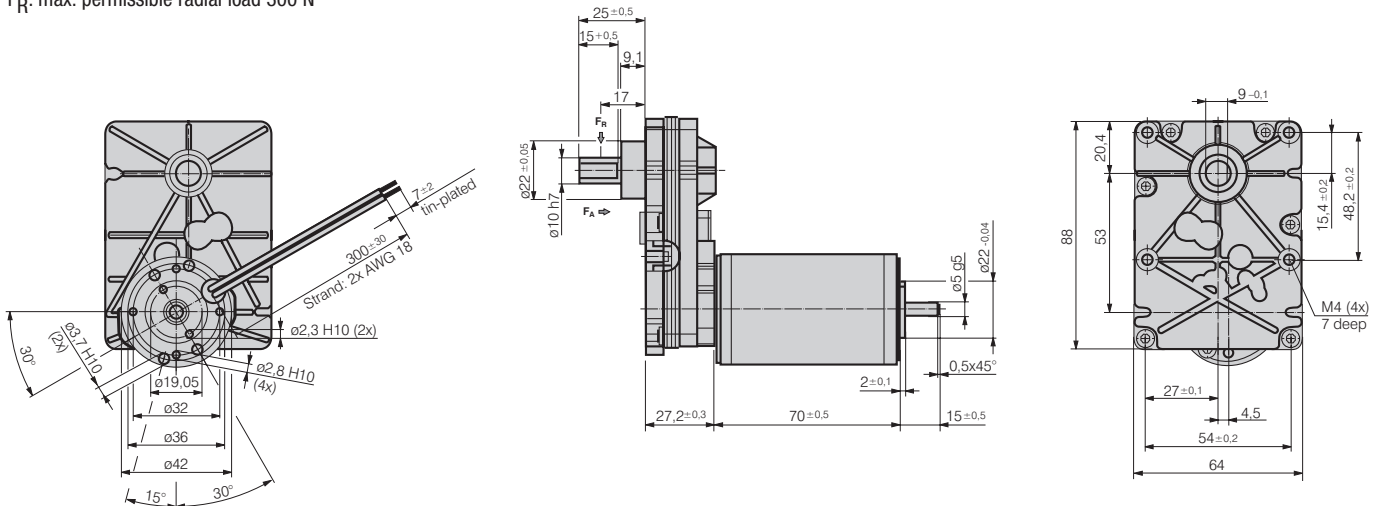
- DC motor with multi-stage spur gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with needle-bearing.
- Flatline design optimized for short installation length.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 4225 ...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-42.25-A 39	0.9	38.6 : 1	3	1.1	85	0.7	...140
BCI-42.25-A 65	0.9	65.2 : 1	3	1.5	51	0.7	...141
BCI-42.25-A 82	0.9	82.8 : 1	3	2.3	40	0.7	...142
BCI-42.25-A 106	0.9	106.1 : 1	3	2.6	31	0.7	...143
BCI-42.25-A 140	0.9	140.8 : 1	3	3.2	23	0.7	...144
BCI-42.25-A 191	0.9	191.9 : 1	4	4.7	17	0.7	...145
BCI-42.25-A 252	0.9	252.6 : 1	4	6.2	13	0.7	...146

## Output shaft load

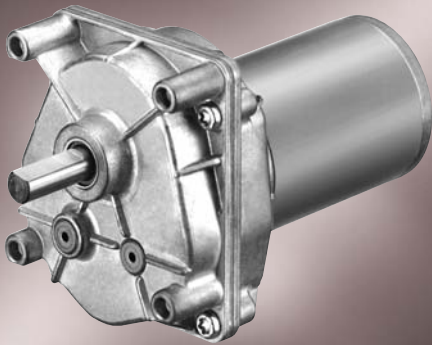
$F_A$ : max. permissible axial load 50 N

$F_R$ : max. permissible radial load 300 N



# BCI-Motor

BCI 42 C Spur gearbox 24 V DC



- DC motor with multi-stage spur gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with combined sleeve-/needle-bearing.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

Type	Nominal current A	Gear ratio i	Gear stages	Nominal torque Nm	Nominal speed min <sup>-1</sup>	Mass kg	Order No. 941 4225...
BCI-42.25-C 18	0.9	18.8 : 1	2	0.6	176	0.7	...230
BCI-42.25-C 23	0.9	23.4 : 1	2	0.7	141	0.7	...231
BCI-42.25-C 26	0.9	26.8 : 1	2	0.8	123	0.7	...232
BCI-42.25-C 30	0.9	30.6 : 1	2	0.9	108	0.7	...233
BCI-42.25-C 37	0.9	37.5 : 1	2	1.1	88	0.7	...234
BCI-42.25-C 53	0.9	53.2 : 1	3	1.5	62	0.7	...235
BCI-42.25-C 67	0.9	67.8 : 1	3	1.9	49	0.7	...236
BCI-42.25-C 92	0.9	92.7 : 1	3	2.5	36	0.7	...237
BCI-42.25-C 142	0.9	142.5 : 1	3	3.9	23	0.7	...238
BCI-42.25-C 222	0.9	222 : 1	4	5.5	15	0.8	...239
BCI-42.25-C 296	0.9	296 : 1	4	7.3	11	0.8	...240
BCI-42.25-C 432*	0.8	432 : 1	4	9.0	8	0.8	...241

Type	Nominal current A	Gear ratio i	Gear stages	Nominal torque Nm	Nominal speed min <sup>-1</sup>	Mass kg	Order No. 941 4240...
BCI-42.40-C 18	1.25	18.8 : 1	2	0.9	165	0.8	...230
BCI-42.40-C 23	1.25	23.4 : 1	2	1.1	132	0.8	...231
BCI-42.40-C 26	1.25	26.8 : 1	2	1.3	116	0.8	...232
BCI-42.40-C 30	1.25	30.6 : 1	2	1.5	101	0.8	...233
BCI-42.40-C 37	1.25	37.5 : 1	2	1.8	83	0.8	...234
BCI-42.40-C 53	1.25	53.2 : 1	3	2.3	58	0.8	...235
BCI-42.40-C 67	1.25	67.8 : 1	3	2.9	46	0.8	...236
BCI-42.40-C 92	1.25	92.7 : 1	3	4.0	33	0.8	...237
BCI-42.40-C 142	1.25	142.5 : 1	3	6.1	22	0.8	...238
BCI-42.40-C 222	1.25	222 : 1	4	8.5	14	0.9	...239
BCI-42.40-C 296*	1.00	296 : 1	4	9.0	11	0.9	...240
BCI-42.40-C 432*	0.70	432 : 1	4	9.0	7	0.9	...241

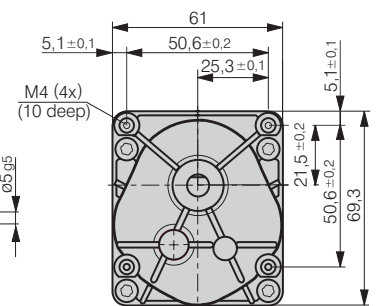
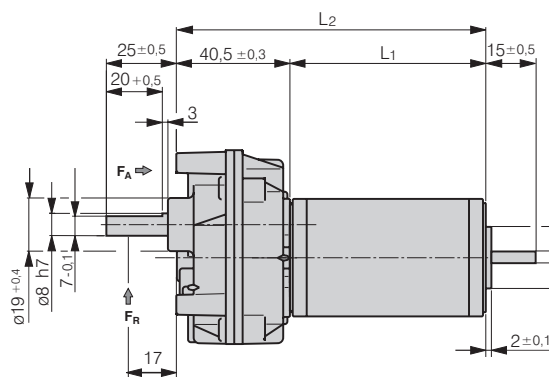
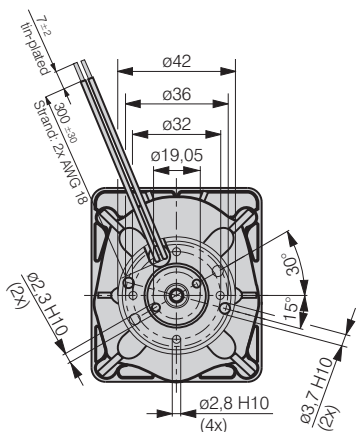
\* **Attention:** Compliance with the max. permitted gear output torque must be ensured by an external limitation of the motor current according to the value specified in the table.

## Output shaft load

F<sub>A</sub>: max. permissible axial load 40 N  
F<sub>R</sub>: max. permissible radial load 120 N

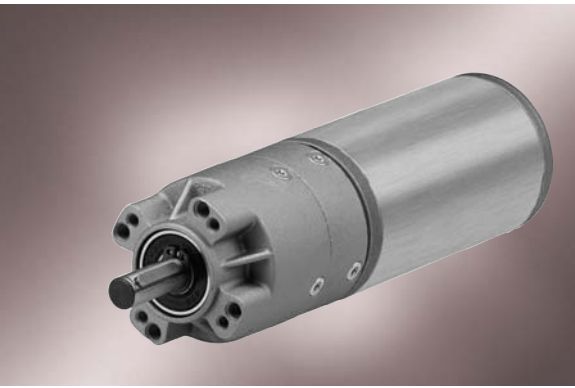
## Motor lengths (mm)

Type	L1	L2
BCI 42.25	70 ± 0.5	110.5 ± 1
BCI 42.40	85 ± 0.5	125.5 ± 1



# BCI-Motor

BCI 42 PX Planetary gearbox 24 V DC



- DC motor with planetary gearbox PX 42 and PX 52.
- Robust zinc diecast housing in modular construction.
- Grease lubrication for maintenance free operation.
- Output shaft with combined needle- / ball bearings.
- Optimized helical gearing for long service life and quiet running in the first stage.

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 4225...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-42.25-PX 42-17	0.9	17 : 1	1	0.6	194	0.6	...136
BCI-42.25-PX 42-72	0.9	72 : 1	2	2.2	46	0.7	...137
BCI-42.25-PX 42-102	0.9	102 : 1	2	3.2	32	0.7	...138
BCI-42.25-PX 42-204	0.9	204 : 1	2	6.3	16	0.7	...139

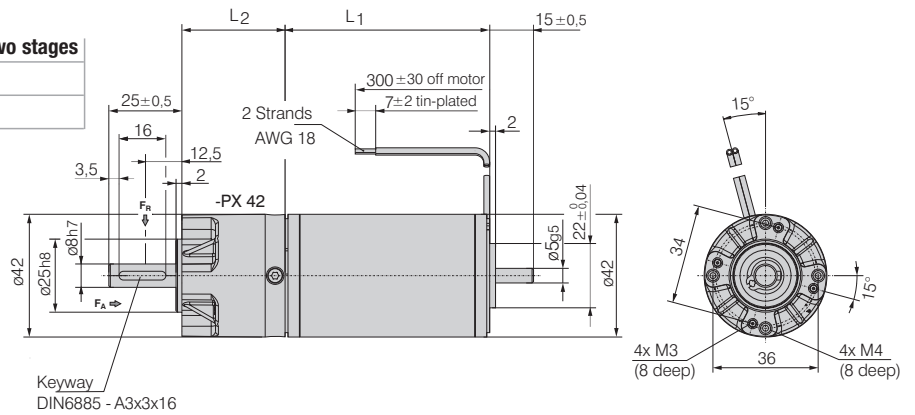
Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 4240...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-42.40-PX 42-9	1.25	9 : 1	1	0.5	344	0,7	...166
BCI-42.40-PX 52-17	1.25	17 : 1	1	0.9	182	0.9	...136
BCI-42.40-PX 42-38	1.25	38 : 1	2	0.8	81	0.8	...167
BCI-42.40-PX 42-54	1.25	54 : 1	2	2.6	57	0.8	...168
BCI-42.40-PX 52-72	1.25	72 : 1	2	3.4	43	1.0	...137
BCI-42.40-PX 52-102	1.25	102 : 1	2	4.7	30	1.0	...138
BCI-42.40-PX 52-204	1.25	204 : 1	2	9.4	15	1.0	...139

### Motor lengths (mm)

Type	L1	Gear lengths PX 42	
		L2 one stage	L2 two stages
BCI 42.25	70 ± 0.5	35.3	50.8
BCI 42.40	85 ± 0.5	35.3	50.8

### Output shaft load

F<sub>A</sub>: max. permissible axial load 150 N  
F<sub>R</sub>: max. permissible radial load 250 N

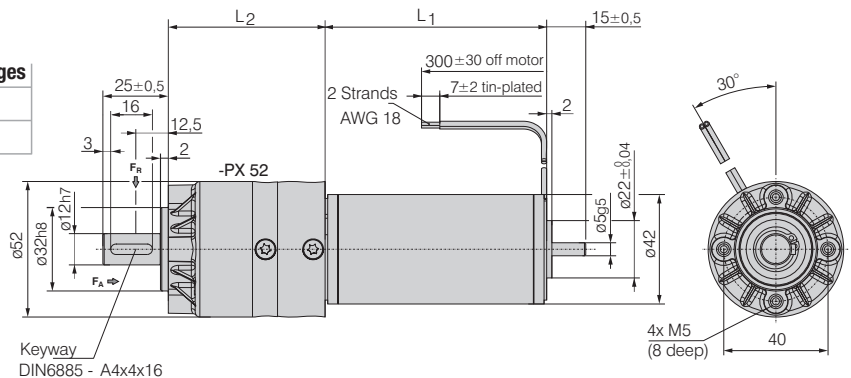


### Motor lengths (mm)

Type	L1	Gear lengths PX 52	
		L2 one stage	L2 two stages
BCI 42.25	70 ± 0.5	41.9	60.2
BCI 42.40	85 ± 0.5	41.9	60.2

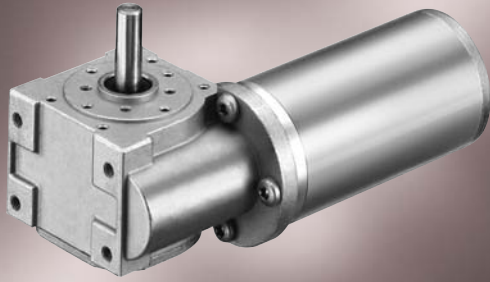
### Output shaft load

F<sub>A</sub>: max. permissible axial load 500 N  
F<sub>R</sub>: max. permissible radial load 350 N



# BCI-Motor

BCI 42.40 SA Worm gearbox 24 V DC



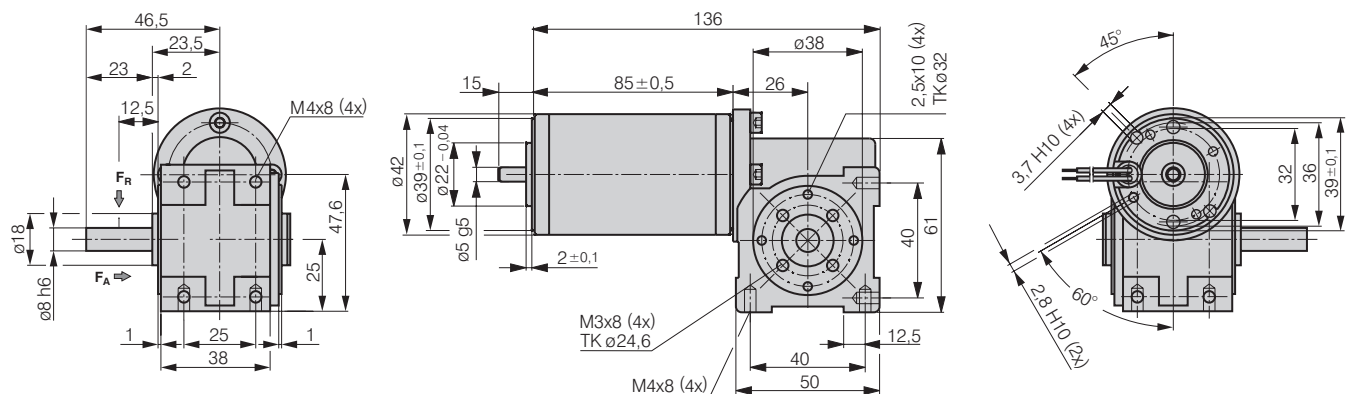
- DC motor with worm gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with ball-bearings.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

Nominal Data	Nominal current	Gear ratio	Nominal torque	Nominal speed	max. permissible output torque	Mass	Order No. 941 4240 ...
Type	A	i	Nm	min <sup>-1</sup>	Nm	kg	
BCI-42.40-SA 3	1.25	3 : 1	0.14	1033	2.2	1.1	...150
BCI-42.40-SA 7	1.25	7 : 1	0.28	443	3.6	1.1	...151
BCI-42.40-SA 10	1.25	10.5 : 1	0.38	295	3.4	1.1	...152
BCI-42.40-SA 15	1.25	15 : 1	0.48	207	3.1	1.1	...153
BCI-42.40-SA 21	1.25	21 : 1	0.55	148	3.4	1.1	...154
BCI-42.40-SA 30	1.25	30 : 1	0.67	103	3.6	1.1	...155
BCI-42.40-SA 40	1.25	40 : 1	0.78	78	3.9	1.1	...156
BCI-42.40-SA 68	1.25	68 : 1	1.32	46	3.5	1.1	...157

## Output shaft load

$F_A$ : max. permissible axial load 40 N  
 $F_R$ : max. permissible radial load 40 N

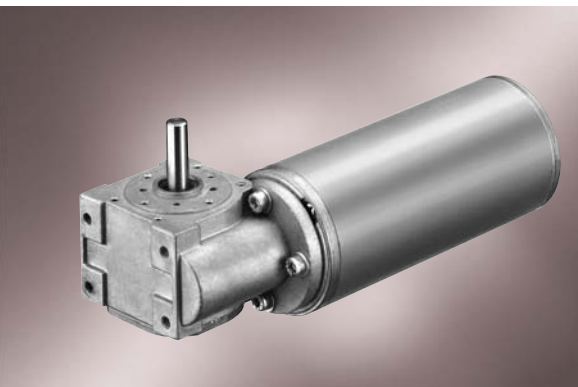
Other shaft dimensions and shaft output on the right or on both sides on request.





# BCI-Motor

BCI 52 SA Worm gearbox 24 V DC



- DC motor with worm gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with ball-bearings.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

Nominal Data	Nominal current	Gear ratio	Nominal torque	Nominal speed	max. permissible output torque	Mass	Order No. 941 5230...
Type	A	i	Nm	min <sup>-1</sup>	Nm	kg	
BCI-52.30-SA 3	2.2	3 : 1	0.18	1200	2.2	1.5	...150
BCI-52.30-SA 7	2.2	7 : 1	0.42	514	3.6	1.5	...151
BCI-52.30-SA 10	2.2	10.5 : 1	0.63	314	3.4	1.5	...152
BCI-52.30-SA 15	2.2	15 : 1	0.90	220	3.1	1.5	...153
BCI-52.30-SA 21	2.2	21 : 1	1.26	157	3.4	1.5	...154
BCI-52.30-SA 30	2.2	30 : 1	1.80	110	3.6	1.5	...155
BCI-52.30-SA 40	2.2	40 : 1	2.40	83	3.9	1.5	...156
BCI-52.30-SA 68*	1.9	68 : 1	3.50	49	3.5	1.5	...157

Nominal Data	Nominal current	Gear ratio	Nominal torque	Nominal speed	max. permissible output torque	Mass	Order No. 941 5260...
Type	A	i	Nm	min <sup>-1</sup>	Nm	kg	
BCI-52.60-SA 3	2.9	3 : 1	0.31	1167	2.2	1.7	...150
BCI-52.60-SA 7	2.9	7 : 1	0.71	500	3.6	1.7	...151
BCI-52.60-SA 10	2.9	10.5 : 1	1.07	333	3.4	1.7	...152
BCI-52.60-SA 15	2.9	15 : 1	1.53	233	3.1	1.7	...153
BCI-52.60-SA 21	2.9	21 : 1	2.14	167	3.4	1.7	...154
BCI-52.60-SA 30	2.9	30 : 1	3.06	117	3.6	1.7	...155
BCI-52.60-SA 40*	2.8	40 : 1	3.90	88	3.9	1.7	...156
BCI-52.60-SA 68*	1.5	68 : 1	3.50	51	3.5	1.7	...157

\* **Attention:** Compliance with the max. permitted gear output torque must be ensured by an external limitation of the motor current according to the value specified in the table.

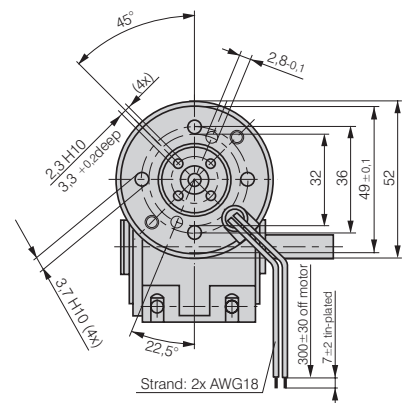
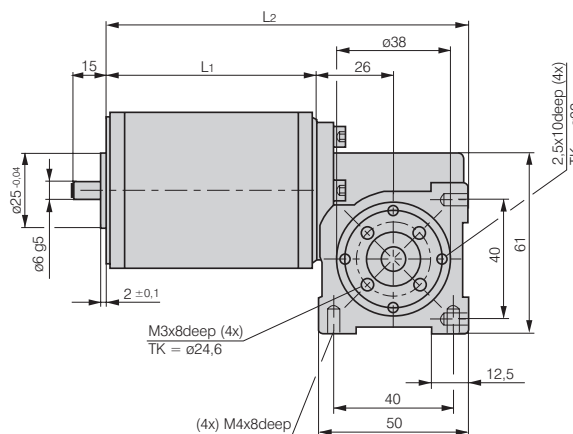
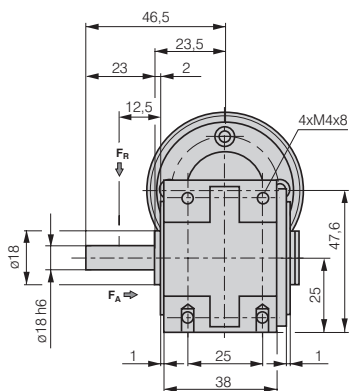
## Output shaft load

F<sub>A</sub>: max. permissible axial load 40 N  
F<sub>R</sub>: max. permissible radial load 40 N

## Motor lengths (mm)

Type	L1	L2
BCI 52.30	95 ± 0.5	146
BCI 52.60	125 ± 0.5	176

Other shaft dimensions and shaft output on the right or on both sides on request.



# BCI-Motor

BCI 63 B Spur gearbox 24 V DC



- DC motor with multi-stage spur gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with needle-bearing.
- Flatline design optimized for short installation length.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6325...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.25-B 303	2.7	303.6 : 1	4	27.8	10	1.8	...190
BCI-63.25-B 454*	1.9	454 : 1	4	30.0	7	1.8	...191
BCI-63.25-B 687*	1.9	687 : 1	4	30.0	5	1.8	...192
BCI-63.25-B 1028*	0.9	1028.7 : 1	4	30.0	3	1.8	...193

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6355...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.55-B 8	4.9	8.3 : 1	3	1.6	402	2.2	...190
BCI-63.55-B 12	4.9	12.3 : 1	3	2.4	268	2.2	...191
BCI-63.55-B 18	4.9	18 : 1	3	3.5	183	2.2	...192
BCI-63.55-B 27	4.9	27.6 : 1	3	5.4	120	2.2	...193
BCI-63.55-B 40	4.9	40.3 : 1	3	7.9	82	2.2	...194
BCI-63.55-B 64	4.9	64 : 1	3	12.6	52	2.2	...195
BCI-63.55-B 101	4.9	101.8 : 1	3	20.0	32	2.2	...196
BCI-63.55-B 136*	4.5	136.5 : 1	3	25.0	24	2.2	...197
BCI-63.55-B 189*	3.3	189 : 1	3	25.0	18	2.2	...198

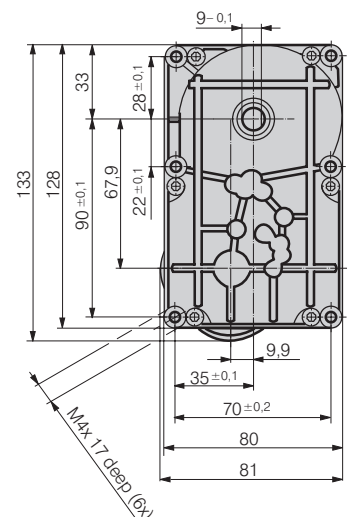
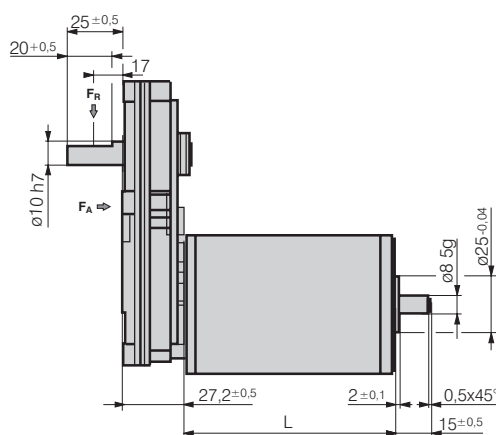
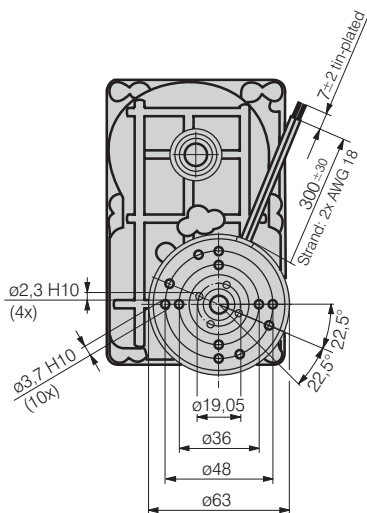
\* **Attention:** Compliance with the max. permitted gear output torque must be ensured by an external limitation of the motor current according to the value specified in the table.

## Output shaft load

$F_A$ : max. permissible axial load 50 N  
 $F_R$ : max. permissible radial load 150 N

## Motor lengths (mm)

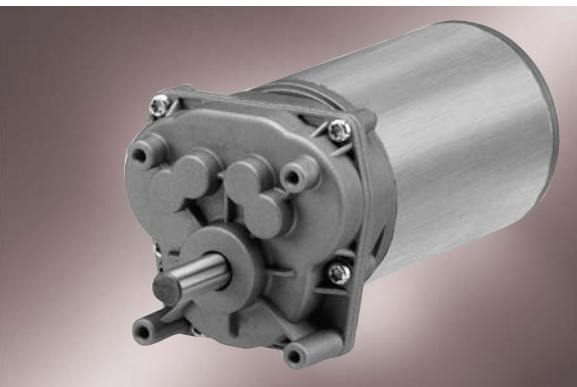
Type	L
BCI 63.25	95 ± 0.5
BCI 63.55	125 ± 0.5





# BCI-Motor

BCI 63 D Spur gearbox 24 V DC



- DC motor with multi-stage spur gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with combined sleeve-/needle-bearing.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6325...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.25-D 7	2.7	7.8 : 1	2	0.9	401	1.6	...160
BCI-63.25-D 9	2.7	9.2 : 1	2	1.0	342	1.6	...161
BCI-63.25-D 11	2.7	11.1 : 1	2	1.3	284	1.6	...162
BCI-63.25-D 13	2.7	13.8 : 1	2	1.6	228	1.6	...163
BCI-63.25-D 18	2.7	18.4 : 1	2	2.1	171	1.6	...164
BCI-63.25-D 22	2.7	22.0 : 1	2	2.5	143	1.6	...165
BCI-63.25-D 27	2.7	27.6 : 1	2	3.1	114	1.6	...166
BCI-63.25-D 41	2.7	41.3 : 1	3	4.2	76	1.6	...167
BCI-63.25-D 67	2.7	67.3 : 1	3	6.8	47	1.6	...168
BCI-63.25-D 117*	2.1	117.1 : 1	3	9.0	27	1.6	...169
BCI-63.25-D 165*	1.5	165.8 : 1	3	9.0	19	1.6	...170

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6355...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.55-D 7	4.9	7.8 : 1	2	1.7	420	2.1	...250
BCI-63.55-D 9	4.9	9.2 : 1	2	2.0	359	2.1	...251
BCI-63.55-D 11	4.9	11.1 : 1	2	2.4	297	2.1	...252
BCI-63.55-D 13	4.9	13.8 : 1	2	3.0	239	2.1	...253
BCI-63.55-D 18	4.9	18.4 : 1	2	4.0	179	2.1	...254
BCI-63.55-D 22	4.9	22.0 : 1	2	4.8	150	2.1	...255
BCI-63.55-D 27	4.9	27.6 : 1	2	6.0	120	2.1	...256
BCI-63.55-D 41	4.9	41.3 : 1	3	8.1	80	2.1	...257
BCI-63.55-D 67*	3.5	67.3 : 1	3	9.0	49	2.1	...258
BCI-63.55-D 117*	2.0	117.1 : 1	3	9.0	28	2.1	...259
BCI-63.55-D 165*	1.5	165.8 : 1	3	9.0	20	2.1	...260

\* **Attention:** Compliance with the max. permitted gear output torque must be ensured by an external limitation of the motor current according to the value specified in the table.

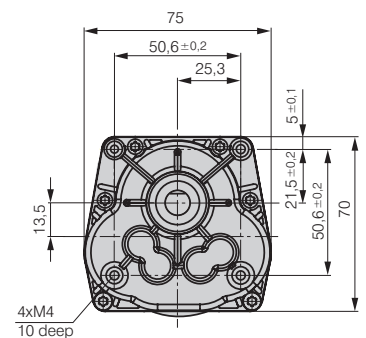
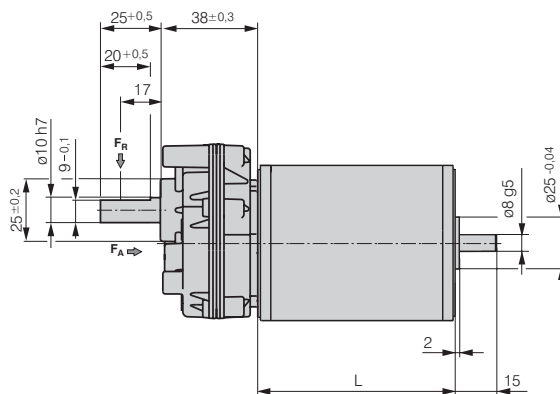
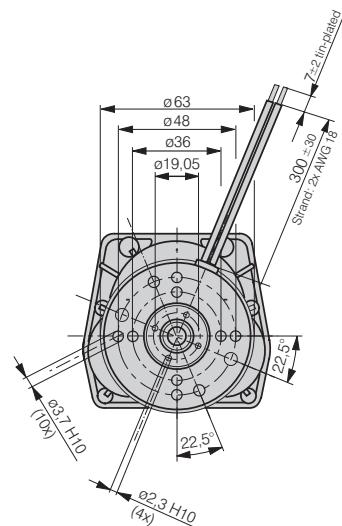
## Output shaft load

F<sub>A</sub>: max. permissible axial load 50 N

F<sub>R</sub>: max. permissible radial load 150 N

## Motor lengths (mm)

Type	L
BCI 63.25	95 ± 0.5
BCI 63.55	125 ± 0.5



# BCI-Motor

BCI 63 E Spur gearbox 24 V DC



- DC motor with multi-stage spur gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with combined sleeve-/needle-bearing.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6325...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.25-E 15	2.7	15.5 : 1	2	1.7	204	1.6	...171
BCI-63.25-E 18	2.7	18.4 : 1	2	2.1	171	1.6	...172
BCI-63.25-E 23	2.7	23.1 : 1	2	2.6	136	1.6	...173
BCI-63.25-E 31	2.7	31.1 : 1	2	3.5	101	1.6	...174
BCI-63.25-E 40	2.7	40.1 : 1	2	4.5	79	1.6	...175
BCI-63.25-E 55	2.7	55.0 : 1	3	5.6	57	1.7	...176
BCI-63.25-E 70	2.7	70.4 : 1	3	7.2	45	1.7	...177
BCI-63.25-E 92	2.7	92.3 : 1	3	9.4	34	1.7	...178
BCI-63.25-E 142	2.7	142 : 1	3	14.4	22	1.7	...179
BCI-63.25-E 184*	2.2	184.4 : 1	3	15.0	17	1.7	...180
BCI-63.25-E 274*	1.5	274.6 : 1	3	15.0	12	1.7	...181

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6355...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.55-E 15	4.9	15.5 : 1	2	3.4	213	2.1	...144
BCI-63.55-E 18	4.9	18.4 : 1	2	4.0	179	2.1	...145
BCI-63.55-E 23	4.9	23.1 : 1	2	5.0	143	2.1	...146
BCI-63.55-E 31	4.9	31.1 : 1	2	6.8	106	2.1	...147
BCI-63.55-E 40	4.9	40.1 : 1	2	8.7	82	2.1	...148

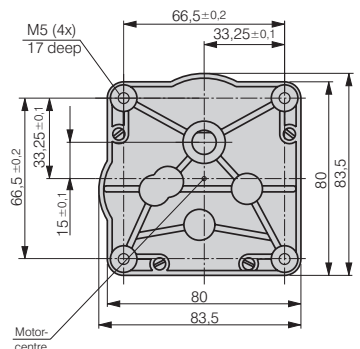
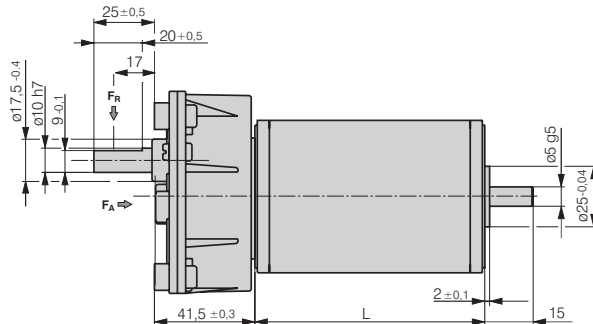
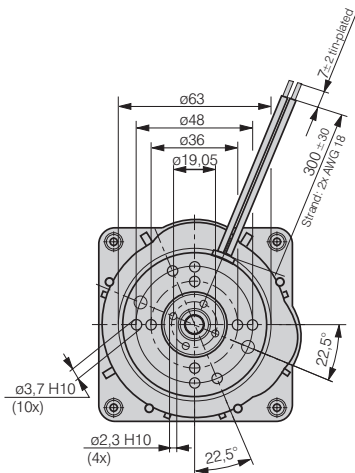
\* **Attention:** Compliance with the max. permitted gear output torque must be ensured by an external limitation of the motor current according to the value specified in the table.

## Output shaft load

F<sub>A</sub>: max. permissible axial load 50 N  
F<sub>R</sub>: max. permissible radial load 150 N

## Motor lengths (mm)

Type	L
BCI 63.25	95 ± 0.5
BCI 63.55	125 ± 0.5



# BCI-Motor

BCI 63 PX Planetary gearbox 24 V DC



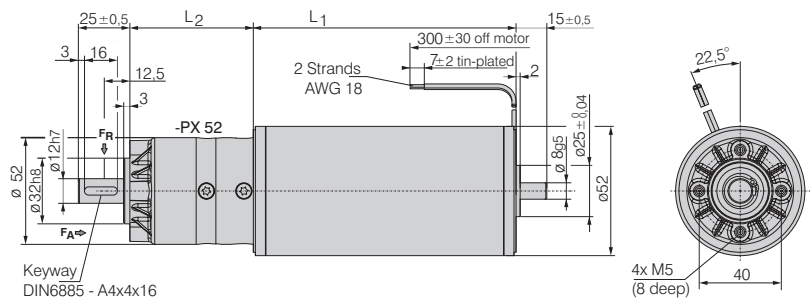
- DC motor with planetary gearbox PX 52 and PX 63.
- Robust zinc diecast housing in modular construction.
- Grease lubrication for maintenance free operation.
- Output shaft with combined needle- / ball bearings.
- Optimized helical gearing for long service life and quiet running in the first stage.

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6325...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.25-PX 63-17*	1.9	17 : 1	1	1.5	185	1.6	...131
BCI-63.25-PX 63-72*	1.6	72.3 : 1	2	5.9	44	1.7	...132
BCI-63.25-PX 63-102*	1.6	102 : 1	2	8.3	31	1.7	...133
BCI-63.25-PX 63-204*	1.6	204 : 1	2	16.5	15	1.7	...134

Nominal Data	Nominal current	Gear ratio	Gear stages	Nominal torque	Nominal speed	Mass	Order No. 941 6355...
Type	A	i		Nm	min <sup>-1</sup>	kg	
BCI-63.55-PX 52-3	4.9	3.2 : 1	1	0.8	1038	2.1	...300
BCI-63.55-PX 52-5	4.9	5.0 : 1	1	1.2	660	2.1	...301
BCI-63.55-PX 63-9	4.9	9.0 : 1	1	2.2	367	2.1	...135
BCI-63.55-PX 52-21	4.9	21.3 : 1	2	4.6	155	2.2	...302
BCI-63.55-PX 52-30	4.9	30.0 : 1	2	6.5	110	2.2	...303
BCI-63.55-PX 63-38	4.9	38.3 : 1	2	8.3	86	2.2	...136
BCI-63.55-PX 63-54	4.9	54.0 : 1	2	11.8	61	2.2	...137

\* **Attention:** Compliance with the max. permitted gear output torque must be ensured by an external limitation of the motor current according to the value specified in the table.

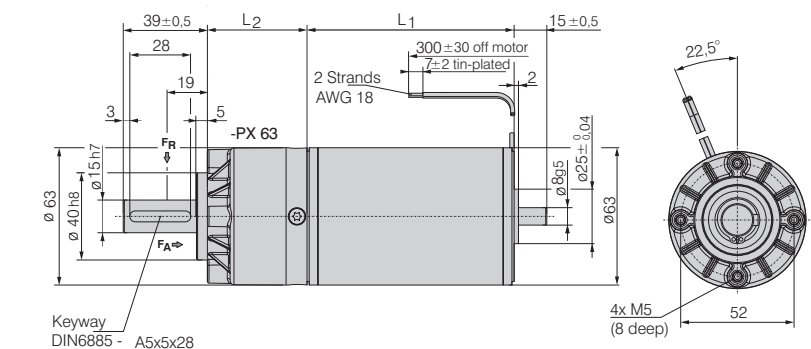
Motor lengths (mm)	Gear lengths PX 52		
Type	L1	L2 one stage	L2 two stages
BCI 63.25	95 ± 0.5	41.9	60.2
BCI 63.55	125 ± 0.5	41.9	60.2



### Output shaft load

F<sub>A</sub>: max. permissible axial load 500 N  
F<sub>R</sub>: max. permissible radial load 350 N

Motor lengths (mm)	Gear lengths PX 63		
Type	L1	L2 one stage	L2 two stages
BCI 63.25	95 ± 0.5	45.8	67.2
BCI 63.55	125 ± 0.5	45.8	67.2



### Output shaft load

F<sub>A</sub>: max. permissible axial load 500 N  
F<sub>R</sub>: max. permissible radial load 350 N



# BCI-Motor

BCI 63 SC Worm gearbox 24 V DC



- DC motor with worm gearbox.
- Gear housing made of zinc diecast.
- Gearbox output shaft with ball-bearings.
- Grease lubrication for maintenance free operation.
- Service life 3.000 hrs for continuous operation (S1).
- Other voltages available on request.

## Nominal Data

Type	Nominal current A	Gear ratio i	Nominal torque Nm	Nominal speed min <sup>-1</sup>	max. permissible output torque Nm	Mass kg	Order No. 941 6325...
BCI-63.25-SC 2	2.7	2.5 : 1	0.28	1260	9	2.5	...240
BCI-63.25-SC 7	2.7	7 : 1	0.74	450	10	2.5	...241
BCI-63.25-SC 10	2.7	10 : 1	0.95	315	10	2.5	...242
BCI-63.25-SC 15	2.7	15 : 1	1.34	210	11	2.5	...243
BCI-63.25-SC 20	2.7	20 : 1	1.65	158	10	2.5	...244
BCI-63.25-SC 24	2.7	24 : 1	1.61	131	9	2.5	...245
BCI-63.25-SC 30	2.7	30 : 1	1.97	105	10	2.5	...246
BCI-63.25-SC 55	2.7	55 : 1	3.08	57	10	2.5	...247
BCI-63.25-SC 75	2,7	75 : 1	2.73	42	7	2.5	...248

## Nominal Data

Type	Nominal current A	Gear ratio i	Nominal torque Nm	Nominal speed min <sup>-1</sup>	max. permissible output torque Nm	Mass kg	Order No. 941 6355...
BCI-63.55-SC 2	4.9	2.5 : 1	0.55	1320	9	3.0	...240
BCI-63.55-SC 7	4.9	7 : 1	1.42	471	10	3,0	...241
BCI-63.55-SC 10	4.9	10 : 1	1.84	330	10	3.0	...242
BCI-63.55-SC 15	4.9	15 : 1	2.60	220	11	3.0	...243
BCI-63.55-SC 20	4.9	20 : 1	3.19	165	10	3.0	...244
BCI-63.55-SC 24	4.9	24 : 1	3.11	138	9	3.0	...245
BCI-63.55-SC 30	4.9	30 : 1	3.80	110	10	3.0	...246
BCI-63.55-SC 55	4.9	55 : 1	5.84	60	10	3.0	...247
BCI-63.55-SC 75	4.9	75 : 1	5.27	44	7	3.0	...248

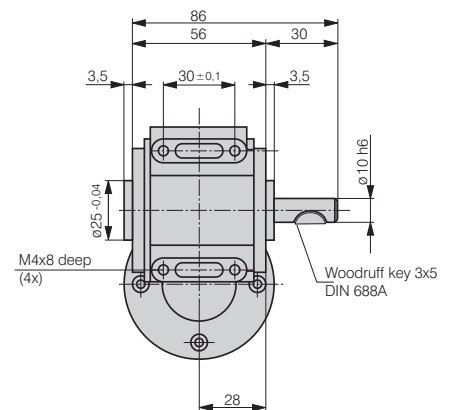
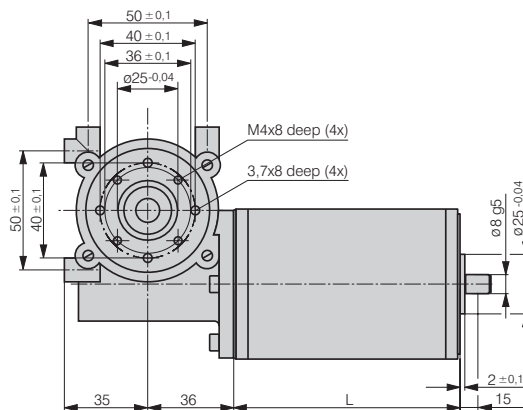
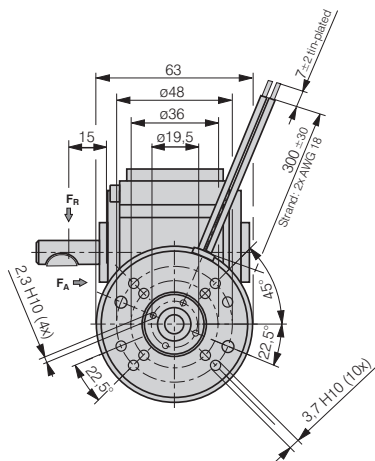
### Output shaft load

F<sub>A</sub>: max. permissible axial load 100 N  
F<sub>R</sub>: max. permissible radial load 150 N

### Motor lengths (mm)

Type	L
BCI 63.25	95 ± 0.5
BCI 63.55	125 ± 0.5

Other shaft dimensions and shaft output on the right or on both sides on request.



# BCI-Brake

24 V DC



- The spring applied brakes are single-disc brakes with two friction surfaces.
- The braking torque is generated by compression springs.
- The brake is released electromagnetically. Braking occurs when the supply voltage is switched off.
- Protection class IP 00.
- Insulation class F.

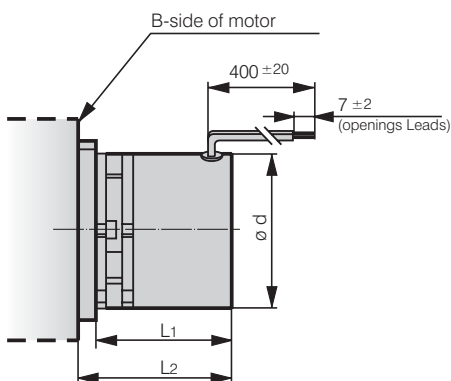
## Nominal Data

Type		BFK 457-01	BFK 457-02	BFK 457-03
Nominal power*	W	5.0	6.6	9.0
Nominal torque of brake**	Nm	0.12	0.25	0.50
Engagement time	ms	11.0	8.0	12.5
Disengagement time	ms	17	17	18
Maximum speed	min <sup>-1</sup>	5000	5000	5000
Weight	kg	0.20	0.25	0.40
d	mm	37.0	47.0	56.0
L1	mm	31.3	31.0	31.8
L2	mm	35.3	37.0	38.0
Motor Series***		BCI 42	BCI 52	BCI 63

\* Nominal power of the coil at 24 V DC and 20° C..

\*\* Nominal torque of brake, referring to a speed of 100 rpm.

\*\*\* Brake for motors and worm gear motors available on request.  
Available at short notice for all other designs.



### Note:

Only one accessory component (brake or sensor) can be mounted onto a motor at a time.

# BCI-Sensor

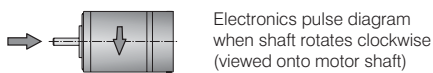
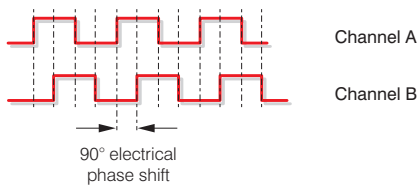
BCI Magnetic sensor PMG 2-2, PMG 2-4, PMG 2-12

- Magnetic sensor for DC motors.
- The sensor is designed for speed monitoring, speed control and positioning in combination with appropriate electronics.
- The sensor operates contact-free and free from wear by means of 2 Hall sensors. The sensors are positioned around a magnet and generate two rectangular pulse signals with a phase shift of 90°.
- The sensor unit is assembled to the motor, electrical connection via leads.
- Protection class IP 40.



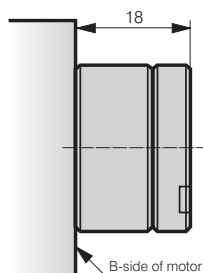
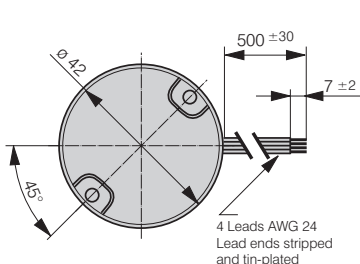
## Nominal Data

Type		PMG 2-2, PMG 2-4, PMG 2-12
No. of pulses	Z	2,4 and 12 pulses per revolution (channel A and B)
Output signal	A, B	2 rectangular pulses $90^\circ \pm 15^\circ$ , for 12 pulses $\pm 25^\circ$ electr. phase shift
Pulse ratio		High signal : low signal = $180^\circ : 180^\circ \pm 10^\circ$ , for 12 pulses $\pm 25^\circ$ electr. phaseshift
Slope	rise	$\leq 400 \text{ ns}$ ( $U = 12 \text{ V DC}$ , $R_L = 820 \Omega$ )
	fall	$\leq 400 \text{ ns}$ ( $U = 12 \text{ V DC}$ , $C_L = 20 \text{ pF}$ )
Output load current	$I_{load}$	$\leq 12 \text{ mA}$ ( $U = 12 \text{ V DC}$ )
Design		Open-collector-output stage with internal pull-up resistor Supply voltage: $U_B = 4.5 \text{ to } 24 \text{ V DC}$ (reverse polarity protected) Output amplitude: $U_{LOW} \leq 0.4 \text{ V}$ (at $12 \text{ V DC} + 20 \text{ mA}$ )
Electr. connection		4 single strands AWG 24, $500 \leq 30 \text{ mm}$ long Stripped and tin-plated ends $7 \pm 2 \text{ mm}$
Connection table	colour	red: $U_B = +5 \text{ V} \dots 24 \text{ V}$   yellow: A channel   black: GND   green: B channel
Temperature range		$-20^\circ\text{C}$ bis $+80^\circ\text{C}$
Weight		0.03 kg



Type	PMG 2-2	PMG 2-4	PMG 2-12
BCI 42.25	931 4225 200	931 4225 201	931 4225 202
BCI 42.40	931 4240 200	931 4240 201	931 4240 202
BCI 52.30	931 5230 200	931 5230 201	931 5230 202
BCI 52.60	931 5260 200	931 5260 201	931 5260 202
BCI 63.25	931 6325 200	931 6325 201	931 6325 202
BCI 63.55	931 6355 200	931 6355 201	931 6355 202

PMG for worm gear motors available on request.  
Available at short notice for all other designs.



### Note:

Only one accessory component (brake or sensor) can be mounted onto a motor at a time.

# BCI-Sensor

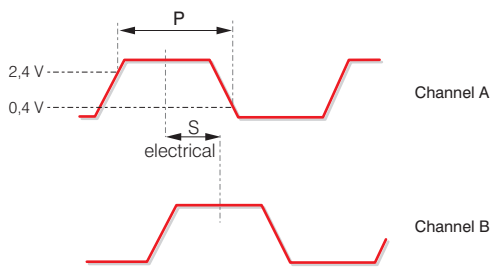
## Encoder HEDS 5500



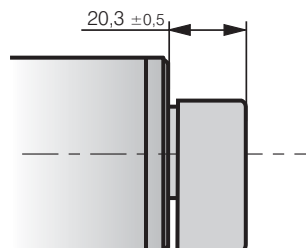
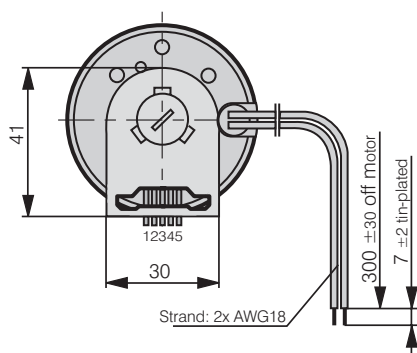
- Optoelectronic 2-channel incremental encoder. A resolution of max. 2.048 increments per revolution is attained by appropriate evaluation in an external control.
- The encoder works contact-free and free from wear. The resolution of the angle of rotation is effected by means of a light-emitting diode in front of a metal encoder disc and a photo-diode array.
- Optional: Variants with other encoder resolutions are available on request.

### Nominal Data

Type		HEDS 5500
No. of pulses	Z	512 per revolution (channel A and B)
Output signal	A, B	2 rectangular-pulse signals, (90° phase offset; TTL-compatible)
Limiting frequency	f	100 kHz
Supply voltage	$U_B$	+ 5 V $\pm$ 10%
Current consumption	$I_B$	typ. 17 mA (max. 40 mA)
Deviation of pulse width	$\Delta P$	typ. 5° related of $P = 90^\circ$ pulse width (electrically by $U_B = 5$ V and 25 °C)
Deviation of phase shift	$\Delta S$	typ. 7° related of $S = 90^\circ$ phase shift between channel A and B (electrically by $U_B = 5$ V and 25 °C)
Electrical connection	AMP	103686-4 or 600442-5
Plug type	Berg	65039-032 / 4825-000
	Molex	65801-034 2695 / 2759
Connection table	Pim	1: Ground   2: free   3: A   4: $U_B$   5: B







HEDS for motors and worm gear motors available on request.  
Available at short notice for all other designs.



**Note:**  
Only one accessory component (brake or sensor) can be mounted onto a motor at a time.



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


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


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


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


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
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

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


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