

**SERIA DCMIND - PRZEKŁADNIA
PLANETARNA Ø 52 MM + SILNIK
SZCZOTKOWY DC**

8983BXXX

Silnik szczotkowy DC z przekładnią planetarną ø 52 mm

- 12→120 V DC, 57→104 W, 10→490 obr/min, 25 Nm max
- Niski poziom hałasu/drgań
- Wysoka sprawność
- Długa żywotność
- IP65 w standardzie, opcjonalnie IP69K

**OPIS PRODUKTU**

The DCMind Brush product family is Crouzet's new generation of high performance DC motors.

Engineered to be very quiet and energy-efficient, making it ideal for medical and laboratory applications and any application that requires low noise levels & low vibration.

For comparison the motor without gearbox noise level 35 dBA is substantially quieter than average rain, which has a noise level of about 50 dB.

DCmind Brush has a lifespan of up to 24,000h without load and up to 5,000h with rated load.

The motors are rated to IP65 dust/water protection class as standard with the ability to reach up to IP69K.

DCmind is certified for UL and various other specific certificates within the medicine and household industry.

Options for adaption to the standard motor include encoder, brake, special output shafts & general mechanical/electrical modifications developed according to your specific application requirements.

SPECYFIKACJA TECHNICZNA

Dostępne prędkości	10rpm→429rpm
Moc	57 W
Moment maksymalny	25 Nm
Napięcie zasilania	12 V DC, 24 V DC, 48 V DC, 90 V DC
Przełożenie	i=7→393:1
Średnica	52 mm
Średnica wałka	12 mm
Stopień ochrony IP	IP65
Typ przekładni	Planetarna
Żywotność	5000h

3 to 25 Nm

- Planetary and worm gearboxes, very silent versions
- Shafts on ball bearings
- 1 year service life



Part numbers

[illegible]

Planetary gearboxes

Planetary gearboxes:

To maintain a very low noise level, the motor pinion is precision machined on motor shaft to obtain optimum concentricity and parallelism. The gears in the first stage are helical-cut and made from a composite material. This design significantly improves gear life by reducing wear due to friction, improves bearing efficiency and ensures a very low noise level even with the gearbox under load.

Worm gearbox:

Worm gearbox:

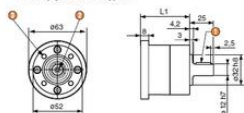
This gearbox combines a tempered steel worm gear with a hardened bronze helical gear, a combination that ensures a long service life. The helical gear rotates in a grease reservoir to provide an excellent oil coefficient and dissipate heat. O-rings and lip seals equipped with garter springs are used to ensure sealing the gearbox output shaft.

The gearbox casing is made of aluminum to maximize heat dissipation.

However, because of the high power rating of this gearbox and the lower efficiency inherent in ratio worm gearboxes, care must be taken not to exceed a temperature of 75°C on the gearbox casing during operation.

The output shaft configuration can be right, left, or a dual shaft output on both sides.

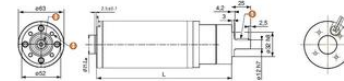
Planetary gearbox ø 52 type 81



- Parallel key 4 x 4 x 16 DIN6885
- M4, depth 10
- 4 x M5 at 90°, depth 10 over Ø 40

L1 1 stage: 56.1 max.
L1 2 stages: 70.3 max.
L1 3 stages: 84.5 max.

8903B1 - 8909B1



890381
L 1 stages: 159.1 max.
L 2 stages: 173.3 max.
L 3 stages: 187.5 max.

L 1 stage: 163.6 max.
 L 2 stage: 197.8 max.
 L 3 stage: 212 max.

- Parallel key 4 x 4 x 16 D76665
- 4 x M5 at 90°, depth 10 over Ø 40
- M4, depth 10