CROUZET - 52MM DIAMETER DC MOTOR WITH PANETARY GEAR - DCMIND BRUSH SERIES

8983BXXX Planetary 52mm gearmotor 57W 12→90Vdc 10→429pm 25Nm max

CROUZET

- 12 \rightarrow 120 V dc, 57 \rightarrow 104 W, 10 \rightarrow 490 rpm, 25 Nm max
- Low noise/vibration
- High efficiency
- Long life
- · IP65 as standard



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 - the motor without gearbox emits a noise level of 35 dBA, substantially quieter than the sound of rainfall (50 dB).

DCmind Brush has a lifespan of up to 24,000hr without load and up to 5,000hr 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 adapation to the standard motor include encoder, brake, special output shafts & general mechanical/electrical modifications developed according to your specific application requirements.

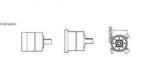
TECHNICAL DATA

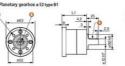
Diameter	52 mm	
IP class	IP65	
Life span	5000h	
Max. torque	25 Nm	
Power	57 W	
Ratio	i=7→393:1	
Shaft diameter	12 mm	
Speed options	10rpm→429rpm	
Supply voltage	12 V DC, 24 V DC, 48 V DC, 90 V DC	
Type of gearbox	Planetary 1→3 stages	

GEARBOXES FOR DCmind BRUSH RANGE

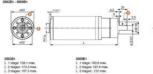
3 to 25 Nm







Parallel key 4 x 4 x16 DIN8885
Ma, depth 10
4 x MS 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.



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Type of georbox	Planetary e 42	Planetary e 12	Worm gear
80810 IP65 / Holding brake / Encoder	min1 A1 / A5 / AP	Tes arrest to the set	PLUE DOWN
soloc iPe5 / seciling trake / Encoder	8080 A1 / A5 / A9		
evers) Pub / Holding trake / Encoder	8985 A1 / A5 / A9		-
NHEDO IPHS / Holding brake / Encoder		8983 81 / 85 / 89	8983 10/15/19
89890 PR5 / Holding brake / Encoder		#949 B1/B5/B9	8989 10/15/19
General characteristics	and the second se	And the other designment of th	2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 -
Number of shipm		a particular de la companya de	1
Maximum permitted torque Nm	3 7.6 15	4 12 25	10
Efficiency	0.8 0.75 0.7	0.8 0.75 0.7	0.6 = 0.3
Axial dynamic load (daN)	5 8 11	6 50 15	10
Radial dynamic load (daN)	16 23 30	20 32 45	- H
Wedth (Hd)	0.3 0.4 0.5	0.7 0.9 1.1	3.0
Standard laduction ratios	9 45 302	7-9 28-45 302	5 - 10 - 20 - 30 - 50
Other ratios possible	58 - 137 - 232 - 393	58 - 137 - 192 - 232 - 393	15 - 100
Operating temperature	-30 ++ +70°C	-30 → +70°C	~10 ++ +75°C
Typical noise level	45 dBA	45 dBA	45 dBA
Comments		the second se	2000 C
Planetary georboxes:			
To maintain a very low noise level, the motor pinion is. The gears in the first stage are helical-out and made to increase gearbox efficiency and ensures a very low r	form a composite material. This design signi	ficantly improves gear life by redu	delon. cing war due to friction.
Worm gearbox:			
This gearbox combines a temperad steel worm gear a	In a husbard bound house house about a susai	and the second sec	and the Part & Contract of Second

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