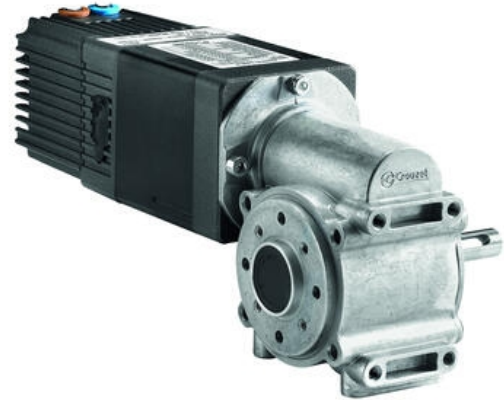


CROUZET - BLDC WORM GEARED MOTOR WITH INTEGRATED SMI21 DRIVE

801410XX SMI21

Worm gearmotor 92W 12?48Vdc 78?780rpm 10Nm max

- 12→48 V dc, 92→170 W, 57→780 rpm, 10 Nm max
- Speed, torque & position control
- Reduce control panel space & cabling
- Long life (>20,000 hours)
- IP65 as standard



PRODUCT DESCRIPTION

The SMI21 integrated drive is ideal for applications where speed, torque & positional control is required.

The motor also incorporates a high resolution 4096ppr incremental encoder ideal for precise positioning applications.

Motion programming, configuring & set-up performed through the dedicated user friendly DCmind-soft PC software. The program can be controlled via basic switches or by external PLC.

The long lifetime of the brushless motor (>20,000 hours with rated load) means it is ideal for continuous or long duty applications.

Having the drive integrated into the motor can also save control panel space, reduce cabling and save set-up time.

3 motor sizes available with the same diameter (57mm x 57mm), with increasing motor lengths for more power/torque.

Planetary & worm gearbox options available for reducing the speed & increasing the output torque.

The motors are rated to IP65 dust/water protection class as standard.

Options for adaptation to the standard motor include adding a holding brake, special output shaft, special connectors, upgraded IP protection & special firmware developed according to your specific application requirements.

* Product datasheets & 3D drawing for standard IP65 cable version attached as an example. Further information for braked version available upon request.

Full documentation & user manuals also available upon request.

TECHNICAL DATA

Integrated control	SMI21
IP class	IP65
Length	194 mm
Life span	20,000h
Max. torque	10
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	92 W
Ratio	i=5→50:1

Shaft diameter	10 mm
Speed options	78rpm→780rpm
Supply voltage	12 V DC, 24 V DC, 48 V DC
Type of gearbox	Worm
Weight	1.87 kg

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm

- Planetary and worm gearboxes
- Shafts on ball bearings
- Long service life
- IP66



Part numbers

Gearbox	Dimensions D 32	Dimensions D 42	Dimensions D 61	Series
Type	E10495	E10496	E10497	E10410
DC145 TMs2	80488 TMs2	80489 TMs2	80490 TMs2	801410 TMs2
DC150 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC160 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC190 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC270 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC280 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC290 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC330 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC620 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC770 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC780 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC790 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC800 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC810 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC820 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC990 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC1010 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1020 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1030 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC1050 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1060 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1070 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1080 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1090 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1100 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1110 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1120 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1130 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
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DC1170 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1180 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1190 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2
DC1200 TMs2	80198 TMs2	80199 TMs2	80200 TMs2	801410 TMs2

Other ratios possible

13 - 150

Notes

IP66 planetary gearbox: Metal gears on all stages. IP66 apart from the output shaft.

IP66 planetary gearbox: On the first stage, the planet gears are made of composite materials which improve efficiency and service life. On the other stages, the metal gears turn on needle bearings. IP66 apart from the output shaft.

IP66 planetary gearbox: All gears are metal and turn on needle bearings, resulting in excellent robustness and a very long service life. IP66 apart from the output shaft.

Worm gearbox: This gearbox contains a tempered steel worm and a hard bronze-halved gear wheel, thus ensuring a long service life. The wheel is coated with grease, ensuring an excellent slip coefficient and good heat dissipation. Copper and brasses are used in combination with a compression spring to create a tight seal at the gearbox output shaft and the motor input shaft. IP66 gearbox.

The casing is made of aluminum to maximize heat exchange with its adjoining surfaces on the machine.

However, due to the high power that can be transmitted by this gearbox and the low efficiency inherent in large worm gearbox reduction ratios, make sure that the gearbox cooling temperature does not exceed 75°C during operation.

The output shaft can be placed on the right or left, or can be a double shaft (shaft output on both sides).

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm

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