

0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

CROUZET - BLDC GEARED MOTOR WITH INTEGRATED SMI21 DRIVE & **CANOPEN NETWORK**

801897XX SMI21 CANOPEN Planetary 81mm gearmotor 97W 12?48Vdc 11?530rpm 120Nm max



CROUZET

- 12→48 V dc, 10→120 Nm, worm and planetary gears
- Speed, torque & postion control. CANopen network
- 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.

With CANopen communication the motor can be connected & controlled via the master CANopen control network.

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 adapation 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.

TECHNICAL DATA

Diameter	81 mm
Integrated control	SMi21 CANopen
IP class	IP65
Life span	20,000h
Max. torque	120
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	97 W
Ratio	i=5→236:1
Shaft diameter	19 mm
Speed options	11rpm→530rpm
Supply voltage	12 V DC, 24 V DC, 48 V DC
Type of gearbox	Planetary 1→3 stages

^{*} Full documentation & user manuals available upon request.

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm















Gearboxee	Planetary O (2)		Planetery I7 67		Placetary 0.81			Worm		
Type	\$10495		810496			810497			810410	
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BOLBO TNICH	801496-11901			601896 TNQ1			801697	Think	agrano TNgs	
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90140 SMQ1	BOTHIN SMOT			801696 SMQ1 801896 SMQ1			801897 TNQ1 801897 SMQ1 802897 SMQ1			801410 SMQ1 801810 SMQ1 802810 SMQ1
80180 SMI21										
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Georbox characteristics						_	300.571	2.49.		Policy In Corner
Number of physics	000,000	1000	100.00	105-011	DR 63	110.00	400.00	100.00	3843	No.
Maximum parmitted torque (Nin)	- 4	12	. 26	- 8	75	50	20	60	120	10
Efficiency	0.8	0.7%	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6 0.3
Axial dynamic toat (SNN)		-10	16	7	10	15.		12	20	10
Radiol dynamic load (daN)	20	-32	45	74	36	52	40	60	100	15
Operating temperature	-20 == =70°C		-20 = +70°C			-2070°C			-50 ns +70°C	
Integral (kg)	- 0.7	0.8	2.1	0.8	1.2	1.6	5.8	2.5	3.2	0.7
Standard reduction ratios	6.76	25 46	93 169 508	6.75	19 27 46	100 139 236 308	6	19 27	100 139 236	5-10-20-30-50

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Type	810495			810490			810497			810410
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80140 TNO1	801496 TNQ1			801496 TN011					801410 TNG1:	
80180 75021	801496 SM01			801896 TN01 801896 SM01 801896 SM01			801897	TNOT	801810 TNZ1	
60360 TN21							BOTEST SM21			801810 TNQ1 801810 SMQ1 801810 SMQ1
90140 BMQ1										
80180 SMI21										
BODBO SMIZY							802897	5MQ1		800810 SMQ1
Georbox characteristics										
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Maximum parmitted torque (Nin)	4	12	. 26	8	. 25	50	.20	60	120	100
Officiency	0.8	0.7%	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6 -= 0.3
Axial dynamic lived (dish)		-10	15	7	90	15		112	20	10
Radiol dynamic load (dafd)	20	-32	45	24	36	52	40	60	100	15
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Other ratios possible			_							15 - 100

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