

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

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

801810XX SMI21 CANOPEN Worm gearmotor 97W 12?48Vdc 53?530rpm 10Nm



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

Integrated control	SMi21 CANopen
IP class	IP65
Length	206 mm
Life span	20,000h
Max. torque	10
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	97 W
Ratio	i=5→50:1
Shaft diameter	10 mm
Speed options	53rpm→530rpm
Supply voltage	12 V DC, 24 V DC, 48 V DC
Type of gearbox	Worm

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

Weight 2.22 kg

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm



















Gearboxee	Planetary O 52			Planelary (7 ti)			Planetary () 61			Worse:
Type	\$10495			810490	810490				810410	
	Part roundam						120,000		Piet contain	
80140 TNI21	soness TNO1 soness SMQ1			801896 TNQ1				_	801410 TNG1	
actac two t							801897 TNQ1 802897 TNQ1			801810 TNQ1 802810 TNQ1
80260 TNO										
90140 SMQ1					801696 SMG1 801896 SMG1			-	801410 SMQ1 801810 SMQ1 800810 SMQ1	
80180 SMI21				801896				SMg1		
BODIO SMICH			_	SMQ1						
Gearbox characteristics										
	107,50			101,00			100,000			Mis-
Maximum permitted tongue (Nin)	4	12	. 26	8	25	80	20	60	120	10
Officiency	0.8	0.75	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6 -+ 0.3
Axial dynamic load (dsN)	4	10	16	7	10	15		12	20	10
Radiol dynamic load (dafe)	20	-32	45	74	26	52	40	60	100	15.
Coenting temperature	-20 -a -70°C			-20 × +30°C			-20 → +70°C			-50 m +70°C
Integra (kg)	0.7	0.8	2.1	0.8	1.2	1.0	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	25 46	93 169 308	6.75	19 27 46	100 139 236 308	•	19 27	100 139 236	5 - 10 - 20 - 30 - 50
Other ratios possible		_	_	_		-	_	_	_	15 - 100

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4 to 120 Nm









Planeter 0 to	Planetary 0 6
810495	810490

Gearboxee	Planetary Ø 62			Planetary (0.62			Planeta	ry (0 81		Worm:
Tipe	810495			810490			\$10497			810410
	SOTANG THEFT			801896 TNQ1 801896 TNQ1 801896 SAKQ1			120,000			801410 TNG1 801810 TNG1
80140 TNI21										
80180 19401							801897	TNOT		
BODIO TNOT							602697 TN21			ecceso TNgs
90140 BMQ1							-	-		801410 SMQ1 801810 SMQ1
80180 SMI21				801896	801896 SMG1			SM21	_	
SCENO SMICY							800897 SMQ1			800910 SMQ1
Gearbox charactertatics	_						_		_	
	101,00			100,00	OR AL	100,00	100,00	103,70	120,30	Mis-
Maximum permitted torque (Nin)	4	12	. 26	8	25	50	20	60	120	10
Efficiency	0.8	0.75	0.7	0.9	0.8	0.7	0.9	0.8	0.2	0.6 -+ 0.3
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Radiol dynamic load (date)	20	-32	45	74	M-	52	40	60	100	15.
Coenting temperature	-20 -= +70°C			-2020°C			-20 -a -70 °C			-50 m +70°C
Integra (kg)	0.7	0.8	3.1	0.8	1.2	1.0	1.8	2.5	3.2	0.7
Standard reduction ratios	6.76	26	93.	5.16	19	100		19	100	5 - 10 - 20 - 30 - 50
		46	169	6.75	27 46	139 236		27	139 236	
Other ratios possible		-		_		308	-	-		15 - 100
Community	-									