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CROUZET

CROUZET - BLDC WORM GEARED MOTOR WITH INTEGRATED SMI21 DRIVE

801410XX SMI21 Worm gearmotor 92W 12?48Vdc 78?780rpm 10Nm

- 12→48 V dc, 92→170 W, 57→780 rpm, 10 Nm max
- Speed, torque & postion 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 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.

* 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









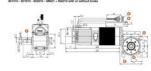














Gearboxee	Planetary 0 62 Planetary 0 62				Placeta	ry O at		Worn:		
Type	810495			810490			\$10497			810410
According to the State of Stat	Performance			Plat notice			11/25/07			Pail contain
80140 TN21	soness TNO1			801496 TN21						801410 TNG1
80180 THIS!				801896 TN21			801897 TNQ1			801810 TNZ1
BOOKS TWO!	801496 SM01			801696 SMQ1 801896 SMQ1			902897	TNOT		800810 TNQ1
90140 DMQ1							801897 SMQ1			801410 SMQ1
80180 SMQ1										801810 SMQ1
BODIO SMICH				_			802897	5MQ1		800810 SMQ1
Gearbox characteristics				_						
Name of States	DE 001,00			205.7mt			500,000			MS-
Maximum parmitted tongue (Nin)	4	12	. 26	- 8	. 25	80	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 load (dsN)		-10	16	7	- 50	15.		12	20	10
Radial dynamic load (daN)	20	-32	45	74	36	52	40	60	100	15.
Operating temperature	-20 == +70°C -20 == +70°C				-20 → +70°C			-20 ns +70°C		
maget (sg)	0.7	0.8	2.1	0.8	1.2	1.6	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	26 46	93 169 308	6.75	19 27 46	100 139 236 308	6	19 27	100 139 206	5 - 10 - 20 - 30 - 50
Other ratios possible						100				15 - 100

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm





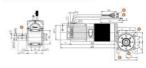












L2 80140: 123 max, L2 80150 - 80280; 143 max, L3 80140: 154 max, L3 80180 - 80280: 174 max,

Guartioces	Planetary (7 52			Planetary (7 62			Planeta	ry O at	Worm:	
Type	810495			810496			\$10497			810410
	District the state of			PAR REPRESE			1275,279		Pail control	
80140 TNO1	801496 TNQ1			801496 TN011					801410 TNG1	
80180 TNQ1				801896	TN01		801897	TNOT		801810 TNIZS
80290 TN21	801496 SM01			801696 SMQ1 801896 SMQ1			SCIEST SMQ1			801410 SMC1 801410 SMC1 801810 SMC1
90140 SMQ1										
80180 SMI21										
BCDIO SMIZY								5MQ1	800810 SMQ1	
Gearbox charactertatics										
	ES1.00			105.000			500,000			100
Maximum parmitted torque (Nin)	4	12	. 26	- 8	. 25	80	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 (dsN)		-10	16	7	90	15.		112	20	10
Radiol dynamic load (date)	20	-32	45	74	36	52	40	60	100	15
Operating temperature	-20 == =70°C		-20 == +70°C			-2070°C			-50 == +70°C	
Integra (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	93 169 308	6,75	19 27 46	100 139 236 308		19 27	100 139 236	5 - 10 - 20 - 30 - 50
Other ratios possible		_				-	_	_		15 - 100