

# 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 & 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 Nm
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

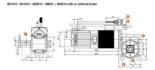












L2 80140: 123 max. L2 80160 - 80280; 143 max. L3 80140: 154 max. L3 80180 - 80280: 174 max.

Geartoces	Planetary (3 62			Planetary (7 62			Planetary (7 81			Worm:
Type	810495			810496			810492			810410
	Plat market			THE REPORTS			That saidles			D21(0)20120
80140 TNO1	801496 TNO1			801496 TN21			1000			801410 TNQ1
80180 TNQ1				601896	TN01-		801897	TNOT		801810 TNZ1
80290 TN21	G1000000000000000000000000000000000000			801496 SMG1 801896 SMG1			BOTHER SMART			801910 TNG1 801910 SMG1 801910 SMG1
90140 SMQ1	801496 SMQ1									
80180 SMI21										
BODIO SMIZY							800897 SMg1			800810 SMQ1
Gearbox characteristics										
	453,00			200,000			50,00			1.00
Maximum permitted torque (Nin)	4	12	. 26	- 8	. 25	50	20	60	120	100
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 triad (ds/A)		-10	16	7	10	15		112	20	10
Fladiol dynamic load (GME)	20	-32	45	24	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	1.1	0.8	1.2	1.0	5.8	2.5	3.2	6.7
Standard reduction ratios	6.75	26	93.	5.36	19	100		19	100	5 - 10 - 20 - 30 - 50
		46	169	6.75	27	139		27	139	
			308		46	236 308			236	
Other ratios possible		_		_		- 000	_	_		15 - 100
Part Control of the C	_									

The production grades of the ordinary production of the ordinary production

coming is made of aluminum to meanins have declarage with its supporting surface on the machine, every, due to the largit power that can be transmitted by the guestion and the low efficiency inhurse in large worm guestic guestion cannot be presented one not exceed 75°C along operation.

Output shift is not be called on the light of all, or each be a content what that hudson on both sides.