

CROUZET - BLDC PLANETARY GEARED MOTOR WITH INTEGRATED SMI21 DRIVE

801495XX SMI21 Planetary 52mm gearmotor 92W 12→48Vdc 13→578rpm 25Nm max

- 12→48 V dc, 52→81 mmØ, 25→120 Nm, 9→756 rpm
- 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.

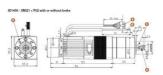
* Product datasheets & 3D drawing for standard IP65 cable version attached as an example. Further information for braked version available upon request.

Full documentation & user manuals also available upon request.

TECHNICAL DATA

Diameter	52 mm
Integrated control	SMi21
IP class	IP65
Life span	20,000h
Max. torque	25 Nm
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	92 W
Ratio	i=6,75→308:1

Shaft diameter	12 mm
Speed options	13rpm→578rpm
Supply voltage	12 V DC, 24 V DC, 48 V DC
Type of gearbox	Planetary 1→3 stages





GEARBOXES FOR DCmind BRUSHLESS RANGE

to 120 Nm

Sanetary and worm georboses thatta on half bearings









Geartroces	Planetary O 62			Planetary (2 62			Planetary O 81			Worm
Type	810495			810496			£10497			810410
	Per service						Part sales			Dallowsky
80140 TNO1	801495 TNQ1			801496 TN21						801410 TNG1
80180 TNI21	BOTHUS SMOT			801896 TNQ1 801896 SMQ1 801896 SMQ1			801897 TNQ1 802897 TNQ1 801897 SMQ1			801810 TNUT 802810 TNUT 801410 SMG1
BODIO TNOS										
90140 SMQ1										
80180 SMI21										801810 SMQ1
80290 SM21							800897	5MQ1		800810 SMQ1
Gearbox characteristics										
	ES1.00			200,000			553,70			455
Maximum permitted torque (Nin)	4	12	26	- 8	. 25	50	20	60	120	10000000
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 (date)		-10	16	7	90	15		12	20	10
Fladiol dynamic load (date)	20	-32	45	24	36	52	40	60	100	15
Operating temperature	-20 -a +70°C			-20 as +70°C			-20 -# -70°C			-50 m +70°C
integra (kg)	0.7	0.8	1.1	0.8	1.2	.1.0	1.8	2.5	3.2	0.7
Standard reduction ratios	6.76	26	93.	5.16	13	100	- 5	19	100	5 - 10 - 20 - 30 - 50
		46	169	6.75	22	139		27	139	
			308		46	236			236	
		_	0000	_		308	_	_	-	-
Other ratios possible				_		- 0/-	_			15 - 100
Communité										

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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 the great-low categories and securious does not encode 15°C during operation.

The output shalf can be placed on the regist or Mit, or on the a doubte shalf output on both index).