

# CROUZET - BLDC PLANETARY GEARED MOTOR WITH INTEGRATED TNI21 DRIVE

801495XX TNI21 Planetary 52mm gearmotor 77W 12→32Vdc 13→593rpm 25Nm max

- 12→32 V dc, 52→81 mmØ, 25→120 Nm, 11→775 rpm
- Speed & torque control. Easy use
- Reduce control panel space & cabling
- Long life (>20,000 hours)
- IP65 as standard



#### PRODUCT DESCRIPTION

The TNi21 integrated drive is ideal for applications where speed and torque control is required.

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.

Pre-set I/O mean that the motor can be used immediately without any complex preliminary set-up. It can be controlled via basic switches or by external PLC. Motor power and logic connections are via cable output or connector options.

The motors are rated to IP65 dust/water protection class as standard.

Options for adapation to the standard motor include adding an encoder, holding brake, special output shaft, special connectors, upgraded IP protection & special firmware developed according to your specific application requirements.

\* Product datasheets & 3D drawing for 0-10Vdc, cable version attached as an example. Further information for PWM version, brake options & connector version available upon request.

Full documentation & user manuals also available upon request.

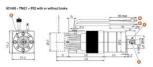
### **TECHNICAL DATA**

Diameter	52 mm
Integrated control	TNi21
IP class	IP65
Life span	20,000h
Max. torque	25 Nm
Number of pulses per revolution	12
Number of pulses per revolution  Positioning feedback	12 Yes
Positioning feedback	Yes
Positioning feedback	Yes
Positioning feedback Power	Yes 77 W

**Speed options** 13rpm→593rpm

Supply voltage 12 V DC, 24 V DC

**Type of gearbox** Planetary 1→3 stages





# GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm

on tail bearings service life







#### Part numbers

Geartroces	Blanetary Ø 62 810496			Planetary (7 52 810496			Placetary Ø 81 810497			Worm
704										810410
Appendig of matters	Dotterde			monesé TNázil			12/510/6	777		Dallo
80140 TNO1 80180 TNO1	sones Thigh			801896 TN21			801697 TNO1			801410 TNG1
KONO TNOS				.00000	INC1	_	601697	TNOT		access Thigs
90140 SMQ1	BOTHIN SMOT			801696 SMQ1 801896 SMQ1			801897 TNQ1 801897 SMQ1 800897 SMQ1			801410 SMQ1
80180 SM821										801810 SMG1
BIDBO SMC1										800810 SMQ1
Gearbox characteristics		_				_	BOOKER	DINING!		MODEL TO DIVING 1
A STATE OF THE PARTY OF THE PAR	100.00	1000	100.11	100,000	_	810.10	100.70	100.00	100.72	100
Maximum parmitted torque (Nin)		12	.26	- 8	. 25	50	20	60	120	10
Molency	0.8	0.7%	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6 -= 0.3
fulal dynamic tood (de/o		-10	16	7	90	15		12	20	10
ladial dynamic load (dafd)	20	-32	45	24	36	52	40	60	100	15
Specifing temperature	-20 == =70°C			-20 as +70°C			-20 -e -70°C			-20 == +70°C
hught (kg)	0.7	0.8	1.1	0.8	1.2	1.0	1.8	2.5	3.2	0.7
Standard reduction ratios	6.75	46	169 308	6.76	19 27 46	100 139 236 308	5	27	100 139 296	5 - 10 - 20 - 30 - 50
Other ratios possible		_	_	_		-				15 - 100
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The cases is made of dummary to resome hard exchanges with its supporting sorters on the registror. However, due to their place with a close to be transmitted by the guestrow and the loss efficiency inherent in targe worm gestrox reduction ratios, make sure if the gestror casing improvince does not exceed 50°C duming operation.

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## Options

### Holding brake 0.5 Nm - 24 V===

