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CROUZET - BLDC PLANETARY GEARED MOTOR WITH INTEGRATED TNI21 DRIVE

801896XX TNI21 Planetary 62mm gearmotor 100W 12?32Vdc 11? 649rpm 50Nm 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.

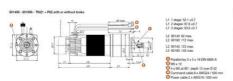
TECHNICAL DATA

Diameter	62 mm
Integrated control	TNi21
IP class	IP65
Life span	20,000h
Max. torque	50
Number of pulses per revolution	12
Positioning feedback	Yes
Power	100 W
Ratio	i=5,16→308:1
Shaft diameter	14 mm



Supply voltage 12 V DC, 24 V DC

Type of gearbox Planetary 1→3 stages



GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm

Shafts on half bearings Ling service life IPGE







Part number

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Gearbox charactertatics	_			_						
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fadol dynamic load (daft)	20	-32	45	74	36	52	40	60	100	15
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maget (kg)	0.7	0.8	3.1	0.8	1.2	1.0	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	26	93 169 508	5.16	19 27	100	5	19	100	5 - 10 - 20 - 30 - 50
		46	169	6.75	27	139		27	139	
			308		46	236			236	
Other ratios possible		_		_		308	_	_	-	15 - 100
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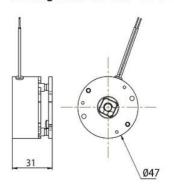
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Options

Holding brake 0.5 Nm - 24 V===



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80180 SMI21	_			801896	SM01		801897			801810 SMQ1
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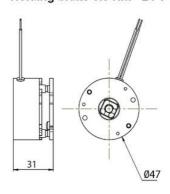
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The casing is made of aluminating in majorative healt exchanges within a supporting surface on the majorative.

However, due to the high power that can be transmitted by this gearbox and the low efficiency inharks in large worm gearbox reduction ratios, make ourse

Options

Holding brake 0.5 Nm - 24 V===



	Connector M16	Cable		
Power ground	G+M	AWG16 Blue		
Power supply +12 to +32 V DC	E+F	AWG16 Brown	F. M G. H.	
Logic ground	H	AWG24 Black (5)		(T
Input 1: On/OR	C	AWG24 Green (1)	6 July 1	
Input 2: Direction	B	AWG24 Yellow (2)	0 1 2 2 2 2	
Input 3: Speed	1	AW024 Orange (4)	11000	LI PROPERTY.
Output 1: Tachometer*	A	Alti G24 Brown (6)	C-11-12-12-12-12-12-12-12-12-12-12-12-12-	
Output 2: Real direction	-L	AWG24 Red (8)	- W	. James
Input 4: Torque	D	AWCc24 (Bue (3))	MILL THE	
Output 3: Torque at max.	K	AWG24 Purple (7)	101	