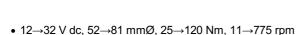


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## **CROUZET - BLDC PLANETARY GEARED MOTOR WITH INTEGRATED TNI21 DRIVE**

801496XX TNI21

Planetary 62mm gearmotor 77W 12?32Vdc 13?775rpm 50Nm max



- 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**

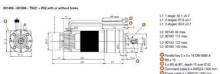
Diameter	62 mm
Integrated control	TNi21
IP class	IP65
Life span	20,000h
Max. torque	50
Number of pulses per revolution	12
Positioning feedback	Yes
Power	77 W
Ratio	i=5,16→308:1
Shaft diameter	14 mm





### 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
1902









#### Part numbers

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BO180 THIS!	300000000000000000000000000000000000000			801896 TN21			801897	TNOT	801810 TN21	
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90140 DMQ1	BOTHIN SAADT				-	-		801410 SMQ1		
80180 SMQ1					801897		801810 SMQ1			
SCHO SMC1 Gearbox characteristics		_		_		_	800897	SMQ1		800810 SMQ1
Married Committee of the Committee of th	-							100.00	100.70	
Maximum parmitted tongue (Nin)		12	26	- 6	25	10	20	60	120	10
Officiency	0.8	0.7%	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6-0.3
Axial dynamic lived (dish)		-10	16	7	90	15		112	20	10
Radial dynamic load (daft)	20	-32	45	74	36	52	40	60	100	15.
Operating temperature	-20 -a +70°C		-20 -= -70°C			-2070°C			-20 H +70°C	
maget (sg)	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	46	169 308	6.75	19 27 46	100 139 236 308	6	27	100 139 206	5-10-20-30-50
Other ratios possible			_			-				15 - 100
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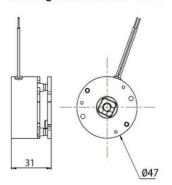
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## **Options**

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



# | Connections | Connection | Co

#### GEARBOXES FOR DCmind BRUSHLESS RANGE

#### 4 to 120 Nm

Planetary and worm gearboses Shafts on ball bearings Long service life thos



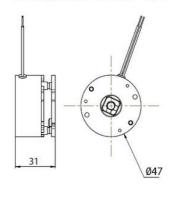






## Options

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



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Gearbox characteristics		_			_			_		
Maximum parmitted torque (Nin)	4	12	26	-	75	10	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 lived (SWN)	4	10	16	7	10	15.		112	20	10
Radial dynamic load lidaNE	20	-32	45	74	. 36	52	40	60	100	15
Operating temperature	-20 == +70°C		-20 == +70°C			-20 -e -70°C			-50 ns +70°C	
Integra (kg)	0.7	0.8	9.1	0.8	1.2	1.6	1.8	2.5	3.2	0.7
Standard reduction ratios	6.76	46	93 169 308	6.75	19 27 46	100 139 236 308	5	19 27	100 139 236	5-10-20-30-50
Other ratios possible			_			-				15 - 100
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he casing is made of aluminum to maximize heat enthanges with its supporting surface on the maxime.

General, due to the high power that can be transmitted by this gestion, and the time efficiency inhurant in large worm gestions reduction intools, make sure the gestions casting between the can be called TPC during operation.

# | Connection | Cable |