

CROUZET

CROUZET - BLDC GEARED MOTOR WITH INTEGRATED SMI21 DRIVE & **CANOPEN NETWORK**

801495XX SMI21 CANOPEN

Planetary 52mm gearmotor 88W 12?48Vdc 12?555rpm 25Nm max



- 12→48 V dc, 10→120 Nm, worm and planetary gears
- Speed, torque & postion control. CANopen network
- 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. With CANopen communication the motor can be connected & controlled via the master CANopen control network. 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.

* Full documentation & user manuals available upon request.

TECHNICAL DATA

Diameter	52 mm
Integrated control	SMi21 CANopen
IP class	IP65
Life span	20,000h
Max. torque	25
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	88 W
Ratio	i=6,75→308:1
Shaft diameter	12 mm
Speed options	12rpm→555rpm
Supply voltage	12 V DC, 24 V DC, 48 V DC
Type of gearbox	Planetary 1→3 stages

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm



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			801896	TNO1		801497	TNOT		801810 TN21
BOTHER SMI21			801496 SMQ1 801896 SMQ1			801897 SMg1			802810 TN/21
									801410 SM21 801810 SM21
100,000			105.001			100,000			1.65
4	12	26	8	75	50	20	60	120	10
0.8	0.75	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6-+0.3
4	10	1.5	7	- 50	25		:12	20	10
	-32			34					15
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6.75	25	93	5.16	13	100	- 5	19	100	5 - 10 - 22 - 30 - 50
		308	8.79	45	236			226	
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Connecting	130324-06	
Input / Output - M16 - 15 pins	Pin N°	
Input 1 (digital)	1	
Input 2 (digital)	2	
Input 3 (digital)	3	Ą
Input 4 (digital)	4	3 4
Input 5 (analogic)	5	2
Input 6 (analogic)	6	The seal
0V	7	1 10 10 20 1º
Output 1 (digital - PWM)	8	12-10 10 90 17
Output 2 (digital - PWM)	9	
Output 3 (digital)	10	11 8
Output 4 (digital)	11	10 9
Not connected	12	c
Not connected	A - B - C	
Power supply - M16 - 3 pins	Pin N°	
Non connecté	1	
+ 12Vcc -> + 48 Vcc	2	
0V	3	
		3 22
Micro-USB B		
Monitoring and setting		
CAN - M12 - 5 pins	Pin N°	
Not connected	1	3 2
Not connected	2	
0V	3	5(((())))
CAN High	4	
CAN Low	5	4

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4 to 120 Nm



Part numbers

Gearboxee Type	Bonatary 0.52 110485 801485 TNC1			Provelacy (0.62 810-996 801-996 TN211 801896 TN211			Paretary 0 81 \$10492			810410
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80140 05621	ROTANE SMICT			801696 SM621 801896 SM621				1.152	801410 SMg1	
BO180 SMI21							BO1897 SMg1			801810 SMg1
ACCHO SANCE	-			_			1001197	5401		800810 SM01
Gearbox characteristics										
	10,000			505.001			100,00			100
Maximum permitted torgue (Nin)	4	12		8	25	50	20	60	120	10
Efficiency	0.8	0.75	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6-0.3
Axial dynamic load (dah)	4	-10	15	7	30	35		:12	20	10
Radial dynamic load IdaM	20	-32	-45	24	M-	52	40	60	100	15
Operating temperature	-2070-0		-20 70-0			-20-# -70°C			-20 H + 70*C	
insight (kg)	- 6.7	0.8	9.1	0.8	1.2	.1.0	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	25	90 169 308	6.76	19 22 46	100 139 236 308	6	19	100 139 236	5 - 10 - 20 - 30 - 50

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