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

801410XX SMI21 CANOPEN Worm gearmotor 88W 12?48Vdc 75?750rpm 10Nm



CROUZET

- 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.

TECHNICAL DATA

Integrated control	SMi21 CANopen
IP class	IP65
Length	206 mm
Life span	20,000h
Max. torque	10
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	88 W
Ratio	i=5→50:1
Shaft diameter	10 mm
Speed options	75rpm→750rpm
Supply voltage	12 V DC, 24 V DC, 48 V DC
Type of gearbox	Worm

^{*} Full documentation & user manuals available upon request.

1.87 kg Weight

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm









Geartocee	Planetary O 62			Planete	W D CO		Diamete	ry (C at	Worm	
Type	210495			810490			810497		810410	
	Part worker			Part modes			23/2/2019		Patt conduct	
80140 TNQ1	801495 TNQ1			801496 TN21						801410 Thigs:
80180 TNOT				801896 TN21			801897	TNOT	801810 TNIZ1	
80390 TN21	801496 SMQ1			801696 SMQ1 801896 SMQ1			002097	TNOT	800916 TNQ1	
90140 SMQ1								1100	801410 SMQ1 801810 SMQ1	
80180 SMI21							801897			
BODIO SAIQY							802697	5MQ1		800910 SMQ1
Gearbox charactertatics										
Humber of shapes	201,00									
Maximum permitted torque (Nin)	4	12	26	- 8	25	50	20	60	120	10
Moency	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 (dsN)	4	10	16	7	10	15.		12	20	10
Radiol dynamic load (dafd)	20	-32	45	74	36	52	40	60	100	15
Operating temperature		-20 -a +70°C			-2070°C			0 → +70	-50 ++ +70°C	
Integra (kg)	0.7	0.8	2.1	0.8	1.2	1.0	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	26	93	5.16	19	100	- 5	19	100	5 - 10 - 20 - 30 - 50
		46	169	6.75	27	139 236		27	139	
			308		46	236			236	
Other ratios possible		_	_	_	_	-	_	_	_	15 - 100
Communità										

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Connecting		
Input / Output - M16 - 15 pins	Pin N°	
Input 1 (digital)	1	
Input 2 (digital)	2	
Input 3 (digital)	3	A
Input 4 (digital)	4	3 4
Input 5 (analogic)	5	2
Input 6 (analogic)	6	16 9 3 X
0V	7	1 160 00 20116
Output 1 (digital - PWM)	8	12 10 40 90 17
Output 2 (digital - PWM)	9	10000
Output 3 (digital)	10	11
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	
Micro-USB B		3 2
Monitoring and setting	PH- 410	
CAN - M12 - 5 pins	Pin N°	Was to be a few and a
Not connected	1	3, 2
Not connected	2	
0V	3	5 (0 0 0)))
CAN High	4	
CAN Low	5	-

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm







Gearboxee	Planetary Ø 52 810495			Planetary Ø 52 810490				ry (0 81	Worm:	
Tipe							\$10497			810410
80140 TNQ1 80140 TNQ1 80140 TNQ1 80140 SMQ1 80140 SMQ1 80140 SMQ1	soness Thorn soness SMon		801496 801896 801496 801896	TN01 5M01		801697 TNQ1 802697 TNQ1 802697 TNQ1 802697 SMQ1 802697 SMQ1			801410 TN21 801810 TN21 802810 TN21 801410 SM01 801810 SM01 802810 SM01	
George characteristics						_	BOX OF	246		PORTO DESIGNATION OF THE PERSON OF T
Market of the Control of the Control	500.00	100.00	100-30	100,000	-	100.00	100.30	109-00	100.00	100
Maximum permitted torque (Nin)		12	26	- 8	25	50	20	60	120	10
L'Hoency	0.8	0.75	6.7	0.9	0.8	0.7	0.9	0.8	0.7	06-03
Axial dynamic lived (dah)	4	10	16	7	10	15	-	12	20	10
Radiol dynamic kied (dafd)	20	32	45	24	36	52	40	60	100	15
Operating temperature	-2070°C			-20 -a -20°C			-2070°C			-50 +4 +70°C
Integra (kg)	0.7	0.8	3.1	0.8	1.2	1.0	1.8	2.5	3.2	0.7
Standard reduction ratios	6.76	26 46	93 169 508	6.75	19 27 46	100 139 236		19 27	100 139 236	5-10-20-30-50

Other union procession

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