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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.

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



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

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm











Geartroces	Planetary Q (2)			Planelary (7 62				18 O. ya		Worm:
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80180 75021				801896	TN01		801897			801810 TN21
80390 TN21	801496 SM01			1	100		902897	TNOT		800810 TNQ1
90140 SMQ1				801696 SANQ1 801896 SANQ1			1	0.000		801410 SMQ1 801810 SMQ1
80180 SMI21							801892			
BODIO SMIZY							802897	5MQ1		800810 SMQ1
Gearbox charactertatics				1						
	ES1.00			105.000			500,00			
Maximum permitted torque (Nin)	4	12	. 26	- 8	. 25	50	20	60	120	100
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 toat (SIN)		-10	16	7	10	15.		12	20	10
Radiol dynamic load (date)	20	-32	45	74	36	52	40	60	100	15
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Integra (kg)	0.7	0.8	2.1	0.8	1.2	1.6	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	26	93	5.16	19 27	100	- 5	19 27	100	5 - 10 - 29 - 30 - 50
		46	93 169 508	6.75	27	139		27	139	
			308			236			400	

0.62 planetary gearbox: On the first stage, the planet gears are made of composite materials which improve efficiency and service life. On the other stages,
the metal gears turn on readia bearings. IP65 apart from the output shaft.
O \$1 standard market At come are made and but no consists bearing, resulting in parallel industries and a very loss service its. INVI most but the

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Geartroces	Planetary Ø 62			Planetary (7.62			Planetary 0.81			Wom:
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Radiol dynamic load (date)	20	-32	45	24	. 36	52	40	60	100	15.
Operating temperature	-20 -a +70°C		-20 or +70°C				0 -e -70	-50 rs +70°C		
Integra (kg)	0.7	0.8	3.1	0.8	1.2	1.0	5.8	2.5	3.2	0.7
Standard reduction ratios	6.76	46	93 169 308	6.75	19 27 46	100 139 236	5	27	100 139 236	5 - 10 - 20 - 30 - 50

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