

# CROUZET

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

802897XX SMI21 CANOPEN Planetary 81mm gearmotor 141W 12?48Vdc 10? 476rpm 120Nm 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	81 mm
Integrated control	SMi21 CANopen
IP class	IP65
Life span	20,000h
Max. torque	120
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	141 W
Ratio	i=5→236:1
Shaft diameter	19 mm
Speed options	10rpm→476rpm
Supply voltage	12 V DC, 24 V DC, 48 V DC
Type of gearbox	Planetary 1→3 stages

### GEARBOXES FOR DCmind BRUSHLESS RANGE

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### 4 to 120 Nm





Planetary and worm gearboars Shafts on fault bearings Long service life BRE	Çç	(e	(e	
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Gearboxee	Planetary 0 52 \$10495			Planetary ID 62			Planetary 0 81 810492			Month 810410
1/24										
	12/11/2	Ref or the							Dillor	
80140 TN21	801436	BOT-KIS TNI21			801496 TN/21				BO1410 TN21 BO1810 TN21 BO1810 TN21 BO1410 SM01 BO1810 SM01 BO1810 SM01	
80180 TM21					801896 TN011			TNOT		
BOND THEY		ROTAGE SMADT			801496 SM01 801896 SM01			TNOT		
90140 SM21	001410							0.055		
80180 SM(21								SMIT.		
BODIO SANZI								544(21		
Georgese characteristics										
	10,000			105.001			100,000			
Maximum permitted torgue (Nin)	4	12	26	8	75	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 lite2 (0sh)	4	10	1.5	7	- 50	25		:12	20	10
Radial dynamic load idaN	20	-32	45	24	34	52	40	60	100	15
Operating temperature		-20 -= =70°C			-20 70°C			N 0	10	-20 -4 +70°C
insight (kg)	- 6.7	0.8	3.3	0.8	1.2	1.6	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	25 46	93 169 308	6.16 6.75	13 27 46	100 139 236	6	19	100 139 236	5 - 10 - 29 - 30 - 50

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Gearboxee	Planetary () 52		Planetary ID 62			Planets			810410	
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80140 TN21	ectass Thics			801696 TN01						R01410 TN/21
80180 7921				801896	TN21		801497	TNPE		epiero TNI21
60290 TN/21							002097	TN21		802810 TN21
90140 0M21	BOT-KIK SAADT			801490	801490 SMi21					8014105Mg1
80180 SM21				801896	SM01		801892			801810 SMg1
80290 SM21							802897	54421		800810 SM(21
Gearbox characteristics										
	10,000,000			105.001			100,00			Area -
Maximum permitted tongue (Nin)	4	12	25	8	25	80	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 (daN)	20	-32	45	24	36	52	40	60	100	15
Operating temperature	-20 -= -70-0			-20 70-0			-	0		-20 +4 +70*C
insught (sg)	- 6.7	0.8	9.1	0.8	1.2	.1.0	5.8	2.5	3.2	0.7
Intendent reduction ratios	6.75	25 46	90 169 308	6.75	13 27 46	100 139 236	5	19 27	100 139 236	5 - 10 - 29 - 30 - 50

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