

801495XX SMI21 CANOPEN Planetary 52mm gearmotor 88W 12→48Vdc 12→555rpm 25Nm max

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

Diameter	52 mm
Integrated control	SMi21 CANopen
IP class	IP65
Life span	20,000h
Max. torque	25 Nm
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.

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	The second
0V	7	1 160 00 20116
Output 1 (digital - PWM)	8	12 10 40 90 17
Output 2 (digital - PWM)	9	000
Output 3 (digital)	10	
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	(A)
+ 12Vcc -> + 48 Vcc	2	
0V	3	
		3
Micro-USB B		
Monitoring and setting		
CAN - M12 - 5 pins	Pin N°	
Not connected	1	2 2
Not connected	2	3
0V	3	5((((((((((((((((((((((((((((((((((((((
CAN High	4	
CAN Low	5	4

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm









Gearboxee	Stonetary O 60 droads sortess Thirt sortess SMC1			801690 TN011 801690 TN011 801690 TN011 801690 SA601 801690 SA601			Placetary C 81 510497 801497 TNI21 602697 TNI21 601697 SM21 603697 SM21			813910 801410 TND1 801410 TND1 801410 TND1 801410 TND1 801410 SMD1 801410 SMD1 800410 SMD1
Type										
00140 TWD1 80140 TWD1 90140 TWD1 90140 TWD1 90140 SWD1 90140 SWD1 90140 SWD1										
National Problems	100,00	2.0	100,33	100,000	22,63	100,00	50,00	133,00		Mar.
Maximum parmitted torque (Nin)	4	12	26	- 8	25	50	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 load (daN)		-10	16	7	30	15		112	20	10
Fladial dynamic load (daN)	20	-32	45	24	. 36	52	40	60	100	15
Operating temperature	-20 == =70°C			-20 or +70°C		-2070°C			-20 -4 +70°C	
Marght (Ag)	0.7	0.8	1.1	0.8	1.2	1.0	1.8	2.5	3.2	0.7
Standard reduction ratios	6.76	46	169 508	6.75	19 27 46	100 139 236 308		19 27	100 139 236	5-10-20-30-50
Other cation possible	_		-	_			15 - 100			

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