

CROUZET - BLDC PLANETARY GEARED MOTOR WITH INTEGRATED SMI21 DRIVE

801495XX SMI21

Planetary 52mm gearmotor 92W 12?48Vdc 13?578rpm 25Nm max

- 12→48 V dc, 52→81 mmØ, 25→120 Nm, 9→756 rpm
- Speed, torque & postion control
- Reduce control panel space & cabling
- Long life (>20,000 hours)
- · IP65 as standard



CROUZET

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.

Motion programming, configuring & set-up performed through the dedicated user friendly DCmind-soft PC software. The program can be controlled via basic switches or by external PLC.

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.

* Product datasheets & 3D drawing for standard IP65 cable version attached as an example. Further information for braked version available upon request. Full documentation & user manuals also available upon request.

TECHNICAL DATA

Diameter	52 mm
Integrated control	SMi21
IP class	IP65
Life span	20,000h
Max. torque	25
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	92 W
Ratio	i=6,75→308:1

Shaft diameter

Speed options

Supply voltage

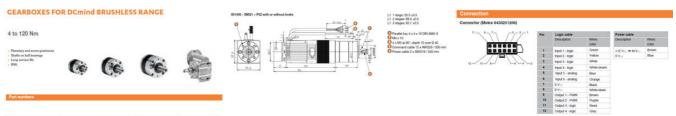
Type of gearbox

13rpm→578rpm

12 mm

12 V DC, 24 V DC, 48 V DC

Planetary $1 \rightarrow 3$ stages



Gearboxee		Planetary 0.62			90.92			NO AL		Worm :		
Type .	810495	enters Thigh					850497	1.1	_	810410		
	100110						120.00			BO1410 TN/21		
80140 TN21	801436				INC1		-					
AD140 TNUD1 AD140 TNUD1				001896	TN01		801897	TNOT		eoreto TN25		
	-	BOTHIN SANDT					002097	TNOT		ecceso Thios		
90140 0M01	001490				Mg1		BULLERY	-		805410 SMQ1		
ACTING SAME1					SMQ1	_				800810 SM01		
Score (Marine Second States	_			_		_	N02897	5MQ1		802810 SM(21		
Gearbox characteristics	_	_	_		_	_		_	_			
Maximum Dermitted Stresse Next	1000	1	122.01	2012/010	02.67	1000	-	100.000	122-24	ME		
	4	12	26	8	75	50	20	60	120	10		
Choiency	0.8	0.75	0.7	0.9	0.8	0.7	4.0	0.8	0.7	0.6 -= 0.3		
Axial dynamic lites (daN)		10	15	7	- 92	35		12	20	10		
Radial dynamic load (dah)	20	-32	45		34	52	- 40	60	100	15		
Constructions entities		-20 == =70°C			-20 70°C			00		-2072-0		
thought (wigh	0.7	0.8	3.1	0.8	1.2	1.6	5.8	2.5	3.2	6.7		
Itandard reduction ratios	6.75	22.42	93 169 308	6.76	1922 4	100 139 236 308	6	19	100 139 236	5 - 10 - 20 - 30 - 50		
Other ratios possible			-	_			-	-	-	15 - 100		
Conservation												
Ø 52 planetary gearbox: Matal-poors	on ail stages. I	PES apar	t from the	output sh	et.		_					
0 62 planetary gearbox: On the first the metal gears turn on needle bearing	stage, the plan pl. P46 apart 1	d gears a	ere mede subjut she	of composi	de mate	sets which	h improve i	However	and serv	rce Ms. On the other stages		
Ø åt planetary gearbox: All plans on output shaft.	metal and har	i on news	Se bearn	ph, resultin	g in exce	Awents	offree and	a wy i	ong servé	is its 1965 apart horn the		
Worm gearbox: This gearbox contain with grassa, answing an excellent sig a light seal at the gearbox output shall	coefficient and	pood re	ed dission	iton, Ourie								
The coord is made of aluminium to in However, due to the high power that o the gestox casing temperature does The output shell can be placed on the	en be transmit not exceed 75	C during	o geartos	and the k	n sfice	ncy inher	unt in targe	worm g	earton re	duction ratios, make sure th		

GEARBOXES FOR DCmind BRUSHLESS RANGE

4 to 120 Nm





Part numbers

Gearboxee	Planetary 0.62			Planetary () 62			Danata	TY O B1	Worm:	
7/24	810496			810496			810497		810410	
	12/11/2	675972			12/52/9		Phil (overlage			
80140 TN(21	BOT-KIS TN/21			803496					801410 TN/21	
80180 75421		801896 TN21			801497 TN21			801810 TN/21		
80,990 TN/24		801696 SM21 801896 SM21			002097	TNOT	802810 TN/21			
90140 0M21	BO1496 SMQ1				801897 SMg1			801410 SM21 801810 SM21		
80180 SM(21										
BODIO SANZI							802497 5Mg1			800810 SM(21
Gearbox characteristics										
	10,000			105.00			100,000			1.55
Maximum permitted torque (Nin)	4	12	26	8	75	50	20	60	120	10
Dificiency	0.8	0.75	0.7	0.9	0.8	0.7	0.9	0.8	0.7	0.6-+0.3
Axial dynamic lited (daN)	4	10	1.5	7	50	25		12	20	10
Radial dynamic kied IdaM	20	-32	45	24	34	52	40	60	100	15
Operating temperature	-20 -= -70°C			-2070°C			-20-+-70-0			-20 +4 +70°C
insught (sg)	0.7	0.8	3.1	0.8	1.2	1.0	5.8	2.5	3.2	0.7
Standard reduction ratios	6.75	25	93	5.16	13	100	- 5	19	100	5-10-20-30-50
		46	169	6.75	27	139		27	139	
					-	308				
Other ratios possible			_			1.1	-			15 - 100

If it preserves particules, the to the disc groups, the same parase as more than concession interaction without present without and according to the top of the parameter parameters. The parameters parameters are smaller and the last many disc parameters are benefits and the last many disc parameters are