

CROUZET - BLDC SQ75 MOTOR WITH INTEGRATED SMI22 CANOPEN DRIVE

80360001

400W 32Vdc 2960rpm 1.3Nm CANopen

- 9→75 V dc, 310→600 W, 1000→1900 mNm, 1→5000 rpm *Motor only data*
- Speed, torque & position control. CANopen network
- Holding Brake, Planetary & Worm gearboxes options available
- 2 Safe Torque Off (STO) inputs
- IP67 & IP69 as standard



PRODUCT DESCRIPTION

The new SQ75 DCmind Brushless motors have an integrated drive and CANopen communication bus for Motion Control applications up to 600 W nominal power and up to 6 Nm peak torque. More power, accurate precision, as well as enhanced safety and security features to secure your application.

DC Brushless motor for position, speed and torque control applications

High precision thanks to the 4096 position per turn magnetic encoder

CANopen Communication bus (CiA 301 compliant and implemented with CiA 402 drive profile)

Enhanced safety via 2 Safe Torque Off (STO) inputs

IP67 & IP69 direct drive according to IEC 60259 (except front face & shaft output)

Protection against wrong polarity

Holding brake available as standard

Gearboxes available as standard to reduce output speed & increase output torque from the motor

The following gearboxes options are available as standard:

80350001 + Planetary PM72 1-stage i=6,75:1, 2-stage i=25,01:1, 3-stages i=45,56:1, i=92,70:1, i=168,84:1 & Worm RAD20 i=5, 10 & 20:1

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80370001 + Planetary P81 1-stage i=5,18:1, 2-stage i=26,85:1, 3-stages i=139,13:1 & Worm RAD20 i=5, 10 & 20:1

Typical applications include access control, wrapping machines, conveyor belts, peristaltic pumps, intralogistics, industrial service robots, agbots & defense robots.

TECHNICAL DATA

Current max	42 A
Diameter	75 mm
Integrated control	SMi22 CANopen
IP class	IP67, IP69
Length	153,1 mm
Life span	20,000h
Max. torque	4 Nm
Nominal current	14,4 A
Nominal speed	2960 rpm
Nominal torque	1,3 Nm
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	400 W
Shaft diameter	14 mm
Speed options	1rpm→5000rpm
Supply voltage	32 V DC
Supply voltage	9-75 V dc
Type of gearbox	Planetary PM72 or Worm Gear options
Weight	2,7 kg

1 Choose The Motor



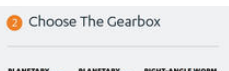
OR MOTOR
+4.3 Nm **B3AGAN**

PLANETARY GEARBOX (H72)
1-2-3 Torque

PLANETARY GEARBOX (H71)
1-2-3 Torque

RIGHT-ANGLE WORM GEARBOX (BAG25)

2 Choose The Gearbox



3 Choose The Motor

SQ75 - Argumentary BLDC vs. Servomotor



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1-2-3 Torque

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RIGHT-ANGLE WORM GEARBOX (BAG25)



PLANETARY GEARBOX (H72)
1-2-3 Torque

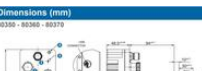
PLANETARY GEARBOX (H71)
1-2-3 Torque

RIGHT-ANGLE WORM GEARBOX (BAG25)

- ✓ More intelligent
- ✓ Precision
- ✓ Low noise
- ✓ Power consumption
- ✓ Space saving, Weight and size
- ✓ Better efficiency
- ✓ No variator need

Dimensions (mm)

B3350 - B3360 - B3370



- ① Logic connector
- ② CAN connector
- ③ Power supply connector
- ④ M5 x 0.8 depth 7
- ⑤ 2 colors LEDs for motor status
- ⑥ M5 x 0.8 thread 12
- ⑦ M5 x 0.8 depth 10.5
- ⑧ M5 x 0.8 depth 10.5
- ⑨ Parallel key 5 x 5 x 18 DIN 6885 A

L: B3350 140.6 max - L: B3360 153.1 max - L: B3370 178.1 max

Connection

Input-Output M18 connector - 18 pins

Pin	Description	Pin	Description
1	Optional high supply	14	0-volt
2	0-volt	15	STO+
3	Input 6 (analogic 1)	16	STO+
4	Input 6 (analogic 2)	17	STO+
5	Input 1 (digital)	18	STO+
6	Input 2 (digital)		
7	Input 3 (digital)		
8	Input 4 (digital)		
9	0-volt		
10	Output 1 (digital - PMOS)		
11	Output 2 (digital - PMOS)		
12	Output 3 (digital)		
13	Output 4 (digital)		



Pin CAN - M12 - 9 pins

Pin	Description
1	Not connected
2	Not connected
3	CAN - GND
4	CAN - H
5	CAN - L