

CROUZET - BLDC SQ75 MOTOR WITH INTEGRATED SMI22 CANOPEN DRIVE

80350001
310W 24Vdc 3000rpm 1.0Nm 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	34.5 A
Diameter	75 mm
Integrated control	SMi22 CANopen
IP class	IP67, IP69
Length	140.6 mm
Life span	20,000h
Max. torque	2.5
Nominal current	15.4 A
Nominal speed	3000 rpm
Nominal torque	1
Number of pulses per revolution	4096
Positioning feedback	Yes
Power	310 W
Shaft diameter	14 mm
Speed options	1rpm→5000rpm
Supply voltage	24 V DC
Supply voltage	9-75 V dc
Type of gearbox	Planetary PM72 or Worm Gear options
Weight	2.4 kg

1 Choose The Motor **2 Choose The Gearbox**

80350
80360
80370

OR MOTOR **+4.2 Nm BREAK**
PLANETARY GEARBOX | PM72
PLANETARY GEARBOX | P61
RIGHT-ANGLE WORM GEARBOX | RB250

1-2-3 Stages 1-2-3 Stages

CROUZET **SQ75 - Argumentary BLDC vs. Servomotor**

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

Dimensions (mm)
80350 - 80360 - 80370

- Logic connector
- CAN connector
- Power supply connector
- MD x 0.8 depth?
- 2 colors LED for motor status
- MD x 1 at 90° on D56 depth 10.5
- MD x 0.8 depth 11.5
- Parallel key 5 x 5 x 18 DIN 6885 A

L: 80350 140.6 max - L: 80360 153.1 max - L: 80370 176.1 max

Connection

Pin	Description	Pin	Description
1	Optical sign output	16	0 volt
2	0 volt	18	ST02
3	Input 0 (analogic 1)	19	ST02+
4	Input 0 (analogic 2)	19	ST02+
5	Input 1 (digital)	19	ST01+
6	Input 2 (digital)	19	ST01+
7	Input 3 (digital)	19	ST01+
8	0 volt		
18	Output 1 (digital - Pk01)		
19	Output 2 (digital - Pk01)		
12	Output 3 (digital)		
13	Output 4 (digital)		

Power supply **W5 - 3 pins**
 1: 0 volt
 2: +VDC
 3: 0 volt

CAN - M12 - 8 pins
 1: Not connected
 2: Not connected
 3: CAN_GND
 4: CAN_H
 5: CAN_L

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