DCmind BRUSHLESS MOTORS

SQ75 motor with integrated SMi22 CANopen electronic board



- 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



80350



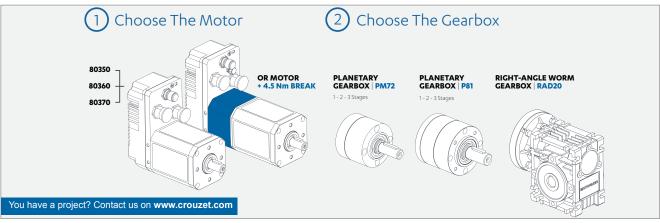


80360 80370

General characteristi	CS									
Туре		80350			80360			80370		
Part numbers										
		8035000)1		8036000)1		8037000)1	
Nominal operating range	V	9 - 75			9 - 75			9 - 75		
No-load characteristics		12V	24V	32V	24V	32V	48V	32V	48V	60V
Speed of rotation	rpm	1 700	3 230	4 500	2 601	3 270	5 000	2 300	3 420	4 320
Absorbed current	Α	1.1	1	2.4	1	1	0.9	1	1	1
Standby current ± 10 %	mA	50	50	50	50	50	50	50	50	50
Nominal characteristics		12V	24V	32V	24V	32V	48V	32V	48V	60V
Speed ± 10 %	rpm	1 380	3 000	3 845	2 230	2 960	4 540	2 000	3 130	3 890
Torque	N.m	1	1	1	1.3	1.3	1.3	1.9	1.9	1.9
Absorbed current	Α	15.4	15.4	15.4	14.4	14.4	14.4	15.1	15.1	15.1
Output power ± 10 %	W	145	314	400	304	403	618	398	623	700
Efficiency	%	78	85	82	85	87	87	80	86	78
Maximal characteristics		12V	24V	32V	24V	32V	48V	32V	48V	60V
Speed	rpm	1 000	2 310	3 100	1 650	2 160	3 540	1 650	2 340	3 170
Torque	N.m	2.5	2.5	2.5	4	4	4	_ 5	6	6
Output power ± 10 %	W	262	600	750	691	905	1 483	864	1 470	1 800
Absorbed current	A	34.5	34.5	34.5	42	42	42	_40	44	44
Efficiency	%	60	74	68	67	69	71	67	70	68
Other characteristics										
Cogging Torque	mNm	45	45	45	50	50	50	55	55	55
Weight	Kg	2.4	2.4	2.4	2.7	2.7	2.7	3.3	3.3	3.3

Accessories	
Description	Part numbers
Starter kit: Dcmind Soft+CANopen software - Power/logic/CAN 3 m cables - USB to CANopen adaptor - CAN terminal resistor - CAN double connector	79513105
Power supply cable M16, 3 m length AWG18	79298664
Input-Output cable M16, 3 m length AWG24	79513106
CAN cable M12, 1 m length AWG26	27358015

Combinations



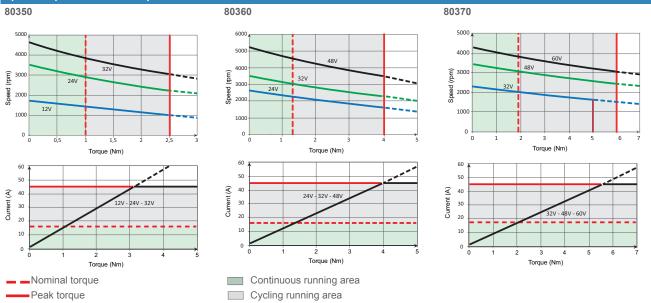
Description

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.

For more information about Crouzet's SQ75 range, please visit www.crouzet.com.

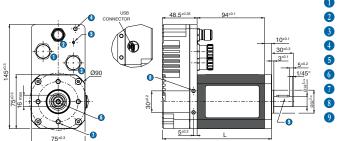
Curves

Speed-torque and current-torque



Dimensions (mm)

80350 - 80360 - 80370



Logic connector

CAN connector

Power supply connector

M5 x 0.8 depth7

2 colors LED for motor status

M5 x 0.8 depth thread 12

M6 x 1 at 90 ° on Ø56 depth 10.5

M5 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 178.1 max

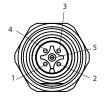
Connection

Input / Output M16 connector - 18 pins				
Pin	Description	Pin	Description	
1	Optional logic supply	14	0 volt	
2	0 volt	15	STO2-	
3	Input 6 (analogic 1)	16	STO2+	
4	Input 5 (analogic 2)	17	STO1-	
5	Input 1 (digital)	18	STO1+	
6	Input 2 (digital)		_13	
7	Input 3 (digital)	2	3,14	
8	Input 4 (digital)	1 1	4 15	
9	0 volt	12 //	5	
10	Output 1 (digital - PMW)	11 -	16	
11	Output 2 (digital - PMW)	10-	7 17	
12	Output 3 (digital)	ار و	8	
13	Output 4 (digital)			

Pin	Power supply M16 - 3 pins
	Description
1	Output ballast
2	+VDC
3	0 volt

Pin	CAN - M12 - 5 pins
	Description
1	Not connected
2	Not connected
3	CAN_GND
4	CAN_H
5	CAN_L





User information

Product User Manual available on website, please read it before use.

Products on request

Please contact our Design LAB on www.crouzet.com. Examples: special shaft - board adaptation.

Warning:

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