CROUZET

MOTORS & GEARMOTORS

Overview



WWW.CROUZET.COM

ABOUT CROUZET

Crouzet is an independent company **manufacturing mechatronic components for demanding applications in Aerospace & Transportation, Energy, Building and Machinery Industry.**

Crouzet provides **Switches and Sensors, Electromechanical Actuators, Electrical Protection Equipment, Cockpit Controls, Automation Controllers and Relays, and Instrumentation Services.**

Since 1921, Crouzet has a heritage of close collaboration with customers in the development of products, from standard components to fully customized solutions.

Crouzet's customers and partners can rely on our teams worldwide to always meet and often exceed their expectations. Driven by innovation, our experts are focused on designing and delivering the right product for the right application.

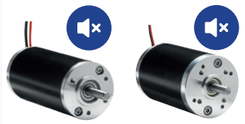
Crouzet is your trusted partner of choice to face industrial challenges of today and tomorrow.

WORLDWIDE PRESENCE



HEADQUARTERS SALES OFFICES

MOTORS

CHARACTERISTICS	SERIES	INDUSTRIAL BRUSH			DCmind BRUSH		DCmind BRUSHLESS		SYNCHRONOUS		STEPPER
											
		82840 82860	82800 10 50	82830 82890	89800 10 50	89830 89890	80140 180 280	80350 60 70	82510 20 30 40	82330 82340	82910 20 30 40
Nominal power (W)		0.9 / 3	9 → 33	27 → 95	15 → 35	54 → 104	66 → 150	310 → 600	0.3 → 3	0.2 / 0.4	0.5 → 5
Voltage		12 → 24 V⎓	12 → 48 V⎓	12 → 48 V⎓	12 → 48 V⎓	12 → 120 V⎓	9 → 75 V⎓	9 → 75 V⎓	24 → 240 V∿ 50 → 60 Hz	24 → 240 V∿ 50 → 60 Hz	3 → 64 V⎓
Front side (mm)		Ø 32	Ø 42	Ø 63	Ø 42	Ø 63	SQ57	SQ75	Ø 35 / 51 Ø 57 / 65	Ø 47	Ø 35 / 51 Ø 57 / 65
Nominal speed (rpm)		3700	3000	3000	3000	3000	3000	3000	250 → 600	600 → 720	0 → 1500
Nominal torque (mN.m)		2.2 / 7.7	41 → 100	170 / 270	50 → 110	180 / 290	125 → 550	830 → 1900	10 → 110	2.5 → 8	15 → 300
Noise level (dBA)		55	55	55	35	35	45	50	30	45	35
Service life (hrs)		2000	3000	5000	4000	5000	20000	20000	20000	10 M on / off	20000
Certification		CE RoHS	cULus CE RoHS		cULus CE RoHS		CE RoHS		cULus CE RoHS		CE RoHS
Gearboxes											
Connection											
Standard											
Options											
IP		IP20			IP65*		IP54	IP65*, IP67* IP69*	IP40	IP30	IP40

* Except front face & shaft

EMC filter · *Worm* · *Terminal* · *Planetary* · *Parallel shafts* · *Interchangeable brushes* · *Encoder*
Cable · *Ball bearing* · *Connector* · *Lead* · *Silent* · *Optional regenerative energy absorber* · *Brake*

ACCESSORIES & OPTIONS

- Brakes from 0.25 to 4.5 N.m(1)
- Encoders from 1 to 1000 Pulses per Revolution(2)
- Special connectors
- Special output shafts (design and/or material)
- Others : on demand

(1) Except Industrial Brush Ø32, Synchronous and Stepper ranges
(2) Industrial Brush and DCmind Brush ranges only





CONTROL ELECTRONICS

CHARACTERISTICS	SERIES	INTEGRATED			EXTERNAL	
						
		TNi21	SMi21	SMi22	BDE 30	BDE 40
Compatible models		SQ57		SQ75	SQ57	
Speed-torque		●	●	●	●	●
Position (P/R)			4096	4096		
Programming			DCmind Soft & DCmind Soft + CANopen	DCmind Soft + CANopen	PWM or 0 → 10 V⎓	
Communication bus			Optional CANopen	Standard CANopen		
Voltage		10 → 36 V⎓	9 → 75 V⎓	9 → 75 V⎓	18 → 36 V⎓	10 → 36 V⎓
Maximum current (A)		17	17	75	10	14
Adaptations		Programs: Custom firmware as per customer specifications				

GEARBOXES

CHARACTERISTICS	PARALLEL SHAFTS	PLANETARY	WORM
			
	11 models	7 models	2 models
Torque (N.m)	0.5 → 6	0.8 → 120	10 → 20
Power (W)	0.2 → 50	8 → 600	25 → 600
Service life (Mr*)	1 → 10	50	50
Ratios	4 → 1036800	4 → 308	5 → 100
Options	Stainless stell shafts, pulleys, pinions, special bearings, etc...		

* Million revolutions

ADAPTED PRODUCTS

To meet your expectations, Crouzet offers you custom products matching your requirements, in the following areas:

- Control electronics
- Motor characteristics
- Gearboxes
- IP65, IP67, IP69
- EtherCAT



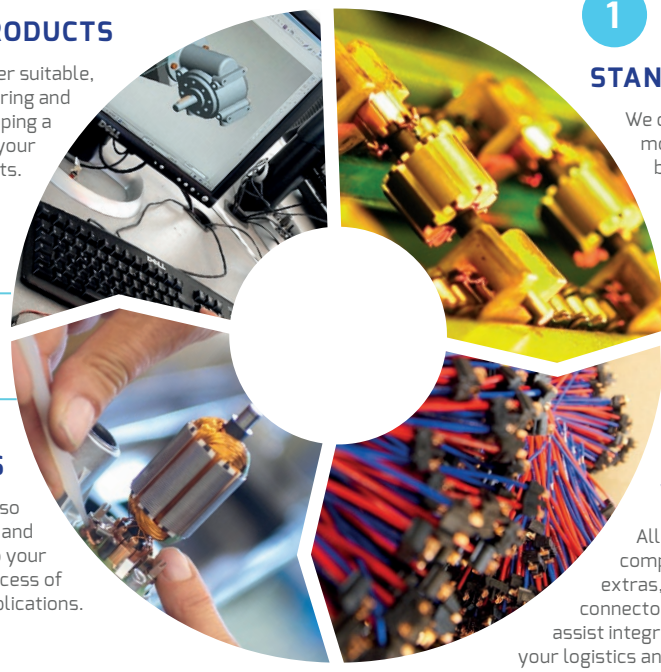


CROUZET

DESIGN LAB

90+ years of customization, adaptation & co-design expertise at your service

To meet market expectations and provide customers with the right solutions within the shortest timeframes, Crouzet has structured all company processes around the different types of product: standard products, adapted products or products specially developed for a customer. Introducing the adaptation wheel...



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SPECIAL PRODUCTS

When the adaptation is no longer suitable, we focus our design, manufacturing and qualification expertise on developing a new product designed to meet your requirements.

1

STANDARD PRODUCTS

We offer a full range of motors and geared motors, including AC synchronous, brush and brushless DC and stepper motors. Our products are available immediately so you can quickly implement your projects.

3

ADAPTED PRODUCTS

All projects are different, so we adapt the performance and functionality of each product to your requirements, ensuring the success of your most complex applications.

2

PRODUCTS WITH ADDED VALUE

All our standard products can be complemented by factory-installed extras, accessories or programs including connectors, special contacts, software etc., to assist integration into your equipment, simplify your logistics and maximize the reliability of your installations.

ACTUAL EXAMPLES

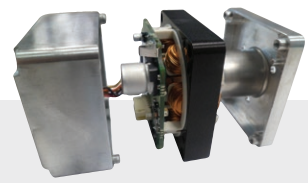
Brushless motor with integrated electronics for Access Control in public transportation applications:

- Autonomous torque, speed and position control
- Specific firmware with integrated emergency mode
- Reinforced gearbox
- CANopen communication
- High resistance against vandalism



Gear pump equipped with a brushless motor:

- Rotor with leak tight seal
- Application-specific electronics
- Shortened motor



Releasable linear actuator for gas boilers equipped with a stepper motor:

- Gas flow adjustment
- Automatic closing in the event of a power failure
- Gas-tightness measured on the production line



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