ABOUT CROUZET

The Motion product line provides innovative engineering expertise, high quality service and a complete offer of standard direct drives, geared motors and motion control solutions for applications where performance is key. Our ability to customize solutions as per virtually any customers’ request makes us the right partner to tackle the most demanding projects.

Crouzet is a brand of InnoVista Sensors™.

With a long-term commitment to technological excellence, the engineering teams have mastered the following core technologies and know-how:
› Electromagnetism
› Thermal dynamics
› Electromechanical systems
› Electronic drives

Covering the power range from 1 to 1000 W peak (1/100 to 1HP+) and available with spur, worm or planetary gearboxes, plus adapted controllers, our offer is specifically designed for access control systems, pumps and valves, railway applications, electrical equipment, medical equipment and the industry.

InnoVista Sensors™ is a worldwide industrial specialist of sensors, controllers and actuators for automated systems.

Through its brand Crouzet, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defense, Transportation and Industrial markets and segments.

Thanks to the recognized expertise of its teams and a strong innovation policy, InnoVista Sensors™ brings performance enhancing solutions to its customers worldwide.

InnoVista Sensors™: your trusted partner of choice to face industrial challenges of today and tomorrow.

www.innovistasensors.com
# MOTORS, CONTROL ELECTRONICS AND GEARBOXES

## MOTORS

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>Industrial Brush</th>
<th>DCmind Brush</th>
<th>DCmind Brushless</th>
<th>Synchronous</th>
<th>Stepper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal power (W)</td>
<td>0.9 / 3</td>
<td>9 / 33</td>
<td>30 / 95</td>
<td>15 / 35</td>
<td>55 / 104</td>
</tr>
<tr>
<td>Voltage</td>
<td>12 / 24 V</td>
<td>12 / 24 V</td>
<td>12 / 24 V</td>
<td>12 / 24 V</td>
<td>12 / 24 V</td>
</tr>
<tr>
<td>Front side (mm)</td>
<td>Ø 32</td>
<td>Ø 42</td>
<td>Ø 42 / Ø 63</td>
<td>Ø 42 / Ø 63</td>
<td>SQ57</td>
</tr>
<tr>
<td>Nominal speed (rpm)</td>
<td>3700</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
</tr>
<tr>
<td>Nominal torque (NNm)</td>
<td>2.2 / 7.7</td>
<td>41 / 110</td>
<td>170 / 270</td>
<td>50 / 110</td>
<td>125 / 55</td>
</tr>
<tr>
<td>Noise level (dBA)</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>45</td>
</tr>
<tr>
<td>Service life (hrs)</td>
<td>2000</td>
<td>3000</td>
<td>5000</td>
<td>4000</td>
<td>5000</td>
</tr>
<tr>
<td>Certification</td>
<td>UL &amp; CSA, CE &amp; IP</td>
<td>UL &amp; CSA, CE &amp; IP</td>
<td>UL &amp; CSA, CE &amp; IP</td>
<td>UL &amp; CSA, CE &amp; IP</td>
<td>UL &amp; CSA, CE &amp; IP</td>
</tr>
<tr>
<td>Gearboxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Options</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Options</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td>IP20</td>
<td>IP65*</td>
<td>IP65* / IP67*</td>
<td>IP40</td>
<td>IP40</td>
</tr>
</tbody>
</table>

*Except front face & shaft

## CONTROL ELECTRONICS

### Integrated
- **CHARACTERISTICS**
  - Compatible models: SQ57, SQ75, SQ75*
  - Speed-torque
  - Position (c/t)
  - Programming: DCmind Soft & CANopen
  - Communication bus: CANopen
  - Voltage: 10 → 36 V
  - Maximum current (A): 17
- **Adaptations**: Programs: Custom firmware as per customer specifications

### External
- **CHARACTERISTICS**
  - Compatible models: BDE 30, BDE 40
  - Speed-torque
  - Position (c/t)
  - Programming: DCmind Soft + CANopen
  - Communication bus: CANopen
  - Voltage: 10 → 36 V
  - Maximum current (A): 17
- **Adaptations**: Programs: Custom firmware as per customer specifications

## GEARBOXES

### Parallel shafts
- **CHARACTERISTICS**
  - Torque (Nm): 0.5 → 6
  - Power (W): 0.2 → 50
  - Service life (Mt): 1 → 10
  - Ratios: 4 → 16000
- **Options**: Shafts: stainless steel, pulleys, pinions, special bearings etc.

### Planetary
- **CHARACTERISTICS**
  - Torque (Nm): 0.8 → 120
  - Power (W): 5 → 600
  - Service life (Mt): 1 → 10
  - Ratios: 4 → 100
- **Options**: Shafts: stainless steel, pulleys, pinions, special bearings etc.

### Worm
- **CHARACTERISTICS**
  - Torque (Nm): 10 → 20
  - Power (W): 25 → 600
  - Service life (Mt): 50
  - Ratios: 4 → 100
- **Options**: Shafts: stainless steel, pulleys, pinions, special bearings etc.

## LEGENDE
- MAC filter
- SBF bearing
- Interchangeable brushes
- Optional regenerative energy absorber

## ACCESSORIES & OPTIONS

- All our motor ranges can be accompanied by factory-mounted encoders and mechanical brakes:
  - Brakes from 0.25 N.m to 4.5 N.m
  - Encoders from 1 to 3600 points/rev
  - Special connectors
  - Special output shaft

## 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
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...

**ACTUAL EXAMPLES**

- **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

- **Gear pump equipped with a brushless motor:**
  - Rotor with leak tight seal
  - Application-specific electronics
  - Shortened motor

- **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
Warning:
The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Crouzet Automatismes SAS and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.