Brush Motors
The Power of Silence

www.crouzet.com
With more than 50 years' experience, Crouzet Motors, a specialist in customized Motion Solutions, now launches its new DCmind Brush range of direct current Brush motors.

Designed by engineers at Crouzet, this new range - the quietest on the market - is ideally suited to the medical, industrial and commercial equipment sectors.

**PRODUCT BENEFITS:**

- Exceptionally quiet: 35 dBA
- Service life up to 24,000 hours
- More than 80% efficiency
- Output power up to 104 W
- 12, 24, 48, 90 and 120 V - power supplies and other voltages on request
- Up to IP69K
- Conformity to the specific standards for your market and required approvals

**EXCEPTIONALLY QUIET**

Systematic approach to eliminate noise
- At source
- From transmission
- From dispersion

Innovative design
- Choice of new materials
- Optimization of component assembly (centering, perpendicularity, parallelism, etc.)

A range of gearbox
- In line with high performance motor

**SERVICE LIFE UP TO 24,000 HOURS**

- Its average service life, in continuous duty, is between 24,000 hours at no-load and 5000 hours at rated load

**MORE THAN 80% EFFICIENCY**

High performance magnetic circuit
- Optimum magnetic flux
- Magnets designed to optimize the detent torque

Optimal electromagnetic performance
- Energy losses on the winding
- Magnetic losses
- Minimal friction

**EXCEPTIONAL PERFORMANCE EVEN IN SEVERE ENVIRONMENTS**

IP65 as standard
- Front and rear end caps redesigned to ensure a good seal, including wire exits
- IP 67 on request
- IP 69K on request

Approvals and conformities
- UL 1004 - CE - ROHS
- Medical (IEC 60601-1)
- Office automation (IEC 60950)
- Household appliances (IEC 60335)
To complement the current range from Crouzet Motors, the new generation of DC Brush direct drive and geared motors have been precision engineered to minimize all mechanical and electro-mechanical variations. Extremely quiet, this new range is ideally suited to medical and laboratory applications.

### DCmind BRUSH: SELECTION GUIDE

**OUTPUT POWER (W)** | **NOMINAL TORQUE (mNm)** | **NOMINAL SPEED (rpm)** | **TYPE OF GEARBOX** | **PLANETARY Ø 42** | **PLANETARY Ø 52** | **90°**
--- | --- | --- | --- | --- | --- | ---
**FAMILY** | **A1** | **B1** | **RAD10** | **MAX. TORQUE (mNm)** | **15** | **25** | **10**
**DIRECT DRIVE MOTORS**
Ø 42 mm
- 89810: 15, 50, 2920
- 89800: 24, 75, 3100
- 89850: 35, 110, 3000
**GEARED MOTORS**
Ø 42 mm
- 8981Ax
Ø 63 mm
- 89830: 57, 180, 3000
- 89890: 104, 290, 3430

Motors 24 V

**ACCESSORIES AND ADAPTATIONS**
- Rear Friction Brake
- 1,000 Pulse 2-Channel Encoder
- Connectors
- Voltage, speed, power
- Shaft dimensions and material
- Motor length
- Other ratios and gearboxes
- Etc.

**NEW ADAPTATION POSSIBILITIES**
- Railways application (compliance with fire/smoke regulations)
- Isolation for use at 230 V
- Other colors

www.crouzet.com
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...)