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Abstract of the Areas of Application

	Synchronous motors	Geared motors	Servo motors	Stepper motors
Drive at dosing pumps at analyzers	■	■	■	■
Drive for thread spraying in textile machines	■	■	■	■
Blood mixing units	■	■	■	■
Eye-glass lens grinding automats	■	■	■	■
Printing machines, drive for the color regulation	■	■	■	■
Labelling devices / Label donors	■	■	■	■
Film transport for film development machines	■	■	■	■
Filterdrive for filtering machines	■	■	■	■
Filtering units drive for grinding machines	■	■	■	■
Photo composition devices	■	■	■	■
Paper putting on machines	■	■	■	■
Wood-pellet furnace drive	■	■	■	■
fold drive in heating and air conditioning systems	■	■	■	■
Plastic granulates mixer drive	■	■	■	■
Advertising pillar drive	■	■	■	■
Dehydrating breather, filter drum drive	■	■	■	■
Oil skimmer drive	■	■	■	■
Edging feed motion for path edge control	■	■	■	■
Cigarette machines, tobacco-amount-control	■	■	■	■
Headlight shifting drive	■	■	■	■
Shred-furnace, fuel drive	■	■	■	■
Packing machines	■	■	■	■
Shifting unit for for variable adjustable gearboxes	■	■	■	■
Servo trasformers	■	■	■	■

Version 7/2007

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Synchronous motors
 Stepping motors
 EX-motors 24V
 Constant-speed servo motors
 EC-motors
 DC-motors
 Electronic

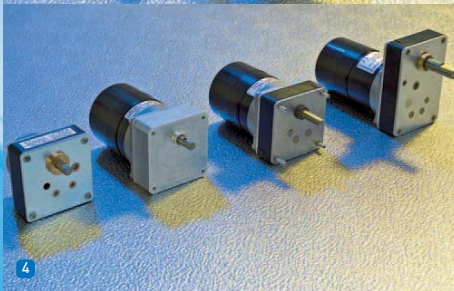
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Motors & electronics

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Synchronous motors

1) ASM

- Constant shaftspeed
- Impedance protection on request
- Temperature class B
- IP 40 – IP 65
- UL-conformity
- 2 directions of rotation
- B5 mounting
- Suitable for inverter drive up to 600 Hz
- Ball bearing motors

Poles	4 or 6
Shaft speed	1000 – 1800 rpm
Installation length	49 – 109 mm
Voltage	1–24 V – 3–600 V
Torque	3,4 – 23 Ncm
Input power	9–46 VA
Output power	4,4–29,5 W

Geared motors

2) Spur gear SG

- Underflush mounting bolts
- high efficiency
- 85 standard output shafts
- Gearboxes greased for life
- metal or plastic housing
- Max. gear backlash 30+15'
- 22 gear transmissions
- B14 mounting
- maintenance-free

Permanent torque range	6 – 13 Nm
Max. peak load	15 Nm
Transmissions	5 – 1333:1
Shaft speed	0,75 – 360 rpm
Installation length	89,5 – 149,5 mm
Fixing centres	52 x 52 mm

3) Planetary gear PG

- modular construction system
- Approximately 400 combinations
- Output shaft with adjusting spring
- Ball bearing construction

Permanent torque range	12,0 – 50,0 Nm
Transmissions	4 – 493:1
Shaft speed	2,02 – 250 rpm
Installation length	143,5 – 240,0 mm
Fixing centres	∅ 40 – 60 mm

4) Flat gear FG

- Two different mountings
- Flat face mounting
- 94 transmissions

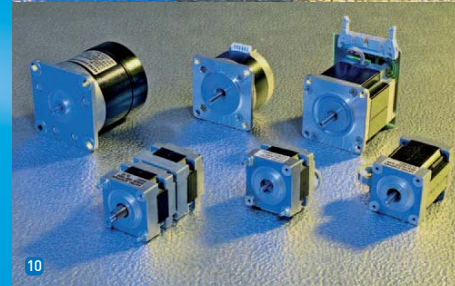
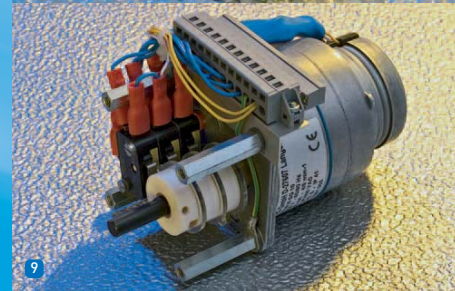
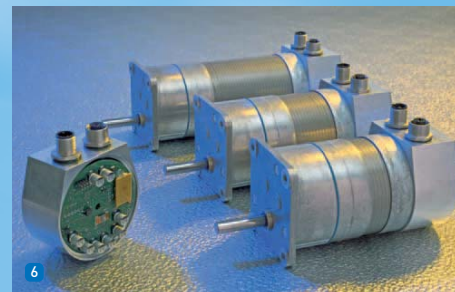
Permanent alternating load	5 – 20 NM
Transmissions	3,4 – 4500:1
Shaft speed	0,2 – 294 rpm
Installation length	75 – 135 mm
Fixing centres	56 x 56 o. 56 x 90 mm

Explosion-proof motors according to ATEX directive 94/9/EG

5) AS 80-6 EEx II T 4

- Frequency 50 or 60 Hz
- Gas: II 2G EEx ec II T 4
- Dust: II 2D c IP65 T 90°C
- Gas-Dust: II 2G EEx ec II T 4 II 2D c IP65 T 90°C

Voltage	1–24 V
Torque	5,3 – 1000 Ncm
Transmissions	1 – 1333:1
Continuous operation	S1
Temperature class	B
Installation length	144 – 181 cm
Fixing centres	52 x 52 mm



Electronically controlled motors

New

6) AEM

- Electronically controlled DC-motors
- Protection class IP 65
- Brushless
- Motor running in ball bearings
- B14 mounting
- Maintenance-free

Input voltage	24 VDC
Motor shaft speed	850 – 4000 rpm
Control voltage	0 – 10 VDC
Rated current	1,5 A
Input power	36 VA
Output power	24 W

DC-geared motors

7) AGM 6030 / AGM 6030 SG

- Permanent magnet excited
- Brush life approx. 5000 hours
- Protection class IP 54
- B14 mounting

Voltage	12 – 200 VDC
Idling shaft speed	3500 rpm
Rated speed	3000 rpm
Motor torque	7,5 Ncm
Motor power	25 W
Rated current	0,25 – 3,5 A

Stepper-control

8) ASST 42485

- Control for many available stepper motors
- Full step up to micro step operation is possible
- 100% digital, programmed by RS232 interface
- Supply voltage: 7–28 VDC
- Rated current: up to 2,8 A per phase

Servo-motors

9)

- combinable with all spur gear boxes
- also with housing

Adjusting range	0 – 360°
Adjusting range for 90°	0,04 – 75 s
Max. torque	up to 20 Nm

Stepper motors

10) SAM

- different mounting forms
- permanent magnet excited stepper motors
- also 1,8° and 3,6° - hybrid stepper motors
- high stepping speed
- Step angle precision
- Robust, reliable and durable
- Low-noise operation
- Maintenance-free

Voltage	24 VDC o. 42 VDC
Torque	3,0 – 1020 Ncm
Holding torque	3,0 – 1020 Ncm
Phase-resistance	0,16 – 55 Ω
Phase current	0,18 – 9,0 A
Rotor inertia torque	15 – 4800 gmc ²
Installation length	29,6 – 156 mm