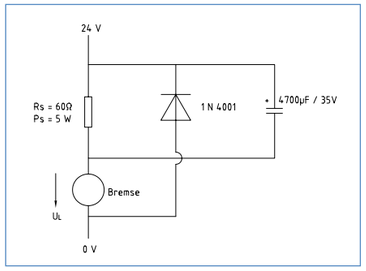
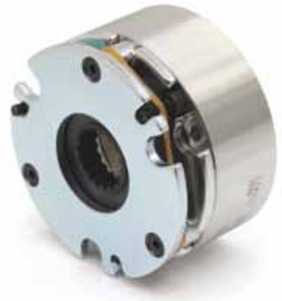
Brakes



The safety brakes from Nanotec have a compact flange construction, are low wear, are fitted with asbestos-free friction linings and offer easy and quick assembly due to the permanently set air gap. The brakes are electromagnetically ventilated and can be used anywhere where moving masses are to be slowed in a very short time or defined to be maintained and the brake moment generated must be available – even if there is a power failure. The braking force is applied with the aid of a pressure spring (BW and BL brakes) or a permanent magnet (BKE brake). A voltage of 24V DC must be applied to all brakes for venting.

Brake type BL



Technical data

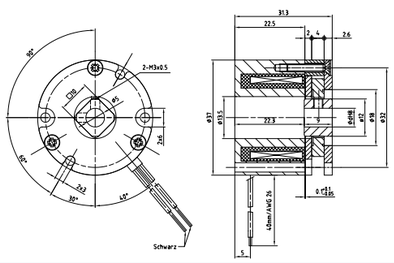
Electrical data: DC24 V/5 W
Moment of inertia: 0.01 kgcm²
Switch-on/switch-off time: 11 ms/17 ms
Nominal torque: 0.24 Nm
Hub: Borehole Ø5H7 with 2 M3 grub screws
Mounting: with 3 screws M2.5
Connection: Lead L=400mm
Weight 0.1 kg
Mounting possibilities: 40-series motor with B shaft

Order number

BRAKE-BL - 0.24 - 5.0

5.0 = ID hub borehole 5.0

Outline drawing (in mm)



Brake type BW

Technical data

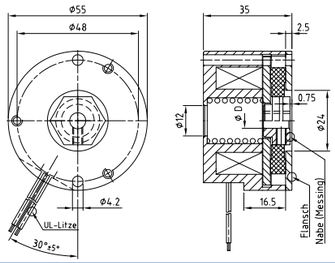
Electrical data: DC24 V/10 W
Moment of inertia: 0.1 kgcm²
Switch-on/switch-off time: 35 ms/25 ms
Nominal torque: 1.4 Nm
Hub: Borehole ... H7 with 2 M4 grub screws
Mounting: With 2 stud screws M3 or M4
Connection: Lead L = 600 mm
Weight 0.5 kg
Mounting possibilities: 56-series motor with B shaft

Order number

BRAKE-BW - 1.4 - 6.3

6.3 = hub borehole 6.35
9.5 = hub borehole 9.525

Outline drawing (in mm)



Brakes

Integrated brakes with plug connection allow operation in tough environmental conditions (IP54) and ensure fast and mistake-free wiring.
The BKE brakes with the Nano brake module are used for this purpose.

The Nano brake module (PWM controller) reduces the power and heat losses of the brake by 35% thus enabling a higher stopping and activation time of the motor.

The anti-surge diode for the brake is also already integrated in the module.

Technical data

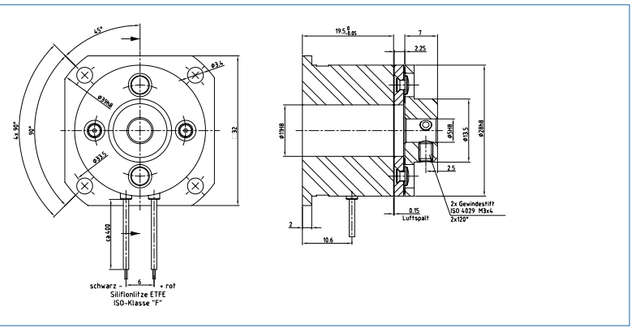
Electrical data: DC24 V/8 W
Moment of inertia: 0.013kgcm²
Switch-on/switch-off time: 10 ms/6 ms
Nominal torque: 0.4 Nm
Hub: Borehole ... H8 with 2 AM3x4 grub screws
Mounting: with 4 screws M3
Connection: Lead L = 400 mm
Weight 0.08 kg

Order number

BRAKE-BKE - 0.4 - 5.0

5.0 = ID hubs, borehole 5.0

Outline drawing (in mm)



Technical data

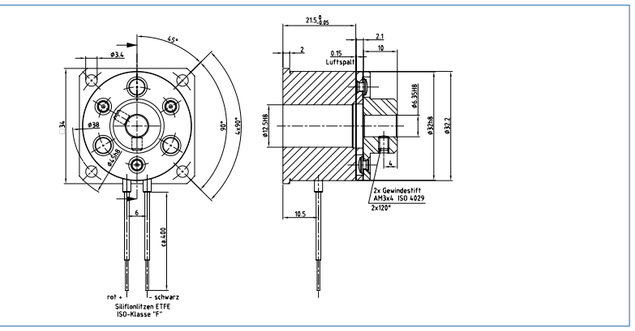
Electrical data: DC24 V/10 W
Moment of inertia: 0.021 kgcm²
Switch-on/switch-off time: 12 ms/6 ms
Nominal torque: 1 Nm
Hub: Borehole ... H8 with 2 grub screws AM3x4
Mounting: with 4 screws M3
Connection: Lead L = 400 mm
Weight 0.11kg

Order number

BRAKE-BKE - 1.0 - 6.35

6.5 = ID hubs, borehole 6.35

Outline drawing (in mm)

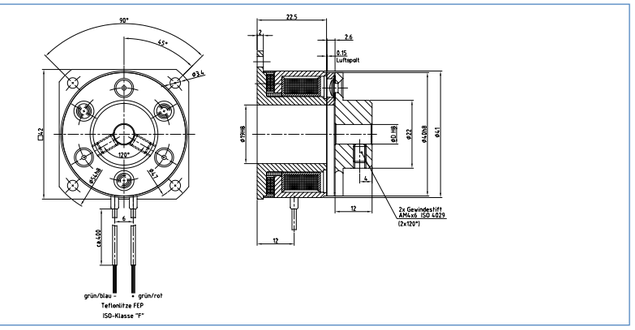


Technical data

Electrical data: DC24 V/11 W
Moment of inertia: 0.067 kgcm²
Switch-on/switch-off time: 25 ms/6 ms
Nominal torque: 2 Nm
Hub: Borehole ... H8 with 2 grub screws AM4x6
Mounting: with 4 screws M3
Connection: Lead L = 400 mm
Weight 0.185 kg

Order number

BRAKE-BKE - 2.0 - 6.35

6.35 = ID hubs, borehole 6.35
8.0 = ID hubs, borehole 8.0

Outline drawing (in mm)