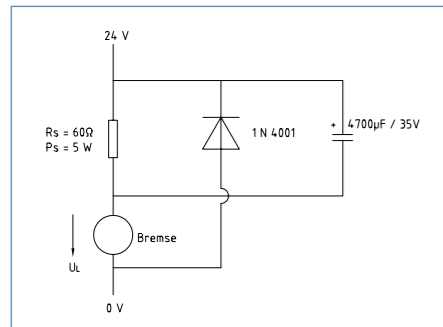


Brakes



The safety brakes from Nanotec have a compact flange construction, are low wear, and are equipped with asbestos-free friction linings. They are fast and easy to install 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 torque 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 24 V DC must be applied to all brakes for venting.

Brake type BL



Technical data

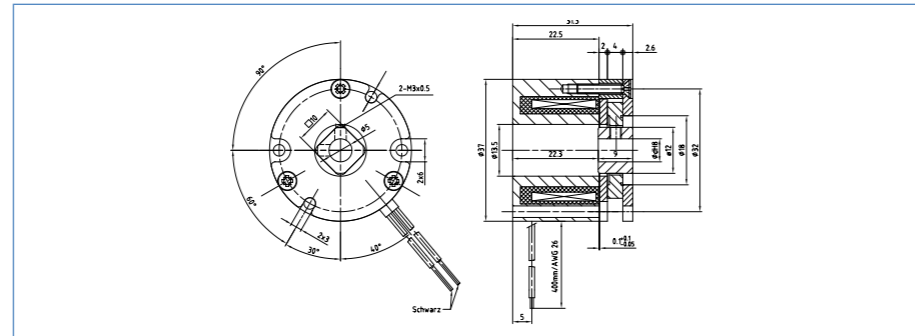
**Electrical data:** 24 V DC/5 W  
**Moment of inertia:** 0.01 kgcm<sup>2</sup>  
**Switch-on/switch-off time:** 11 ms/17 ms  
**Nominal torque:** 0.24 Nm  
**Hub:** Borehole  $\varnothing$ 5H7 with 2 puncture screws M3 with 3 screws M2.5  
**Mounting:**  
**Connection:** Lead L = 400 mm  
**Weight** 0.1 kg  
 Mounting possibilities: 40-series motor with B shaft

Order identifier

**BRAKE-BL - 0.24 - 5.0**

5.0 = ID hub borehole 5.0

Outline drawing (in mm)



Brake type BW



Technical data

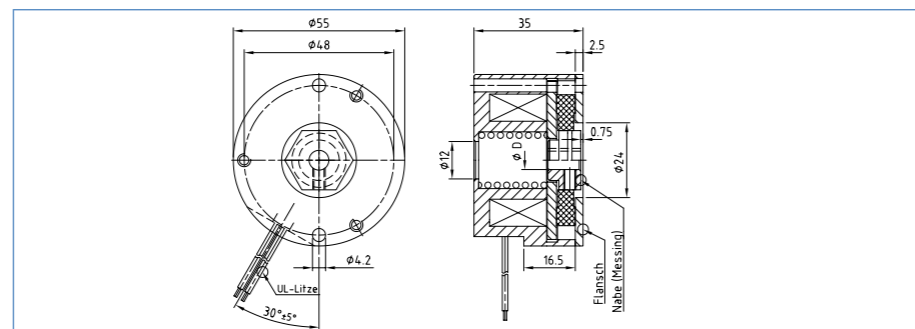
**Electrical data:** 24 V DC/10 W  
**Moment of inertia:** 0.1 kgcm<sup>2</sup>  
**Switch-on/switch-off time:** 35 ms/25 ms  
**Nominal torque:** 1.4 Nm  
**Hub:** Borehole ... H7 with 2 puncture screws M4 With 2 studs M3 or M4  
**Mounting:**  
**Connection:** Lead L = 400 mm  
**Weight** 0.5 kg  
 Mounting possibilities: 56-series motor with B shaft

Order identifier

**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.

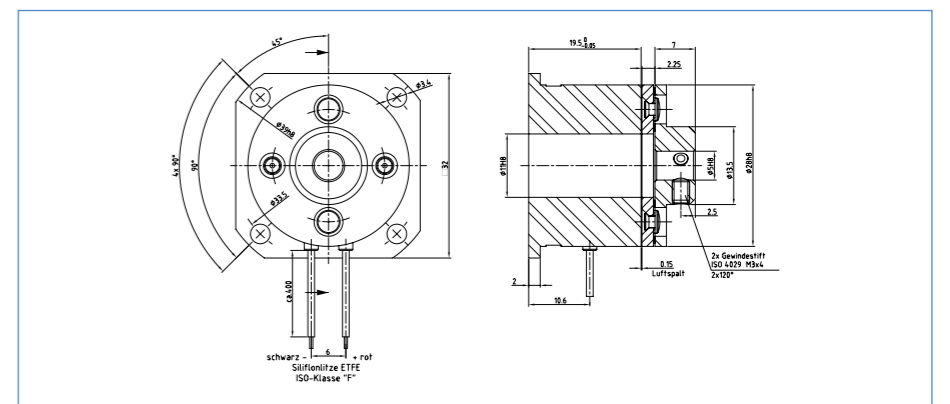
The Nano brake module (PWM controller) reduces the power and heat losses of the brake by 35% thus enabling a higher stopping and activation time of the motor.

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

Technical data

**Electrical data:** 24 V DC/8 W  
**Moment of inertia:** 0.013 kgcm<sup>2</sup>  
**Switch-on/switch-off time:** 10 ms/6 ms  
**Nominal torque:** 0.4 Nm  
**Hub:** Borehole ... H8 with 2 puncture screws AM3x4 with 4 screws M3  
**Mounting:**  
**Connection:** Lead L = 400 mm  
**Weight** 0.08 kg

Outline drawing (in mm)



Order identifier

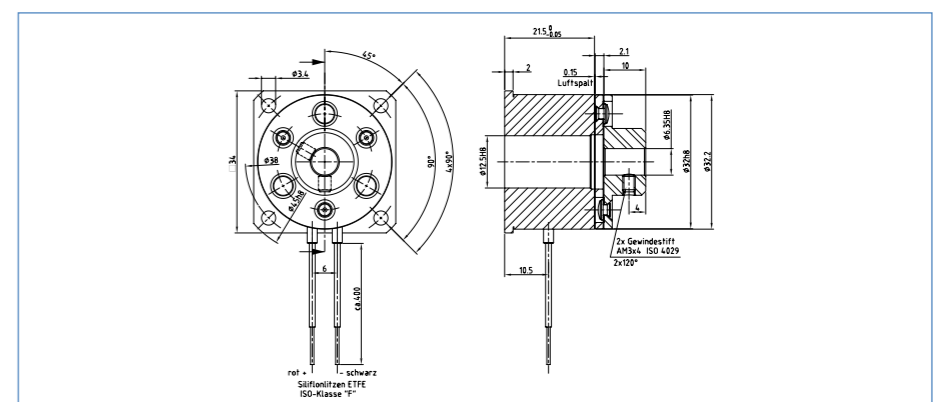
**BRAKE-BKE - 0,4 - 5,0**

5.0 = ID hub borehole 5.0

Technical data

**Electrical data:** 24 V DC/10 W  
**Moment of inertia:** 0.021 kgcm<sup>2</sup>  
**Switch-on/switch-off time:** 12 ms/6 ms  
**Nominal torque:** 1 Nm  
**Hub:** Borehole ... H8 with 2 puncture screws AM3x4 with 4 screws M3  
**Mounting:**  
**Connection:** Lead L = 400 mm  
**Weight** 0.11 kg

Outline drawing (in mm)



Order identifier

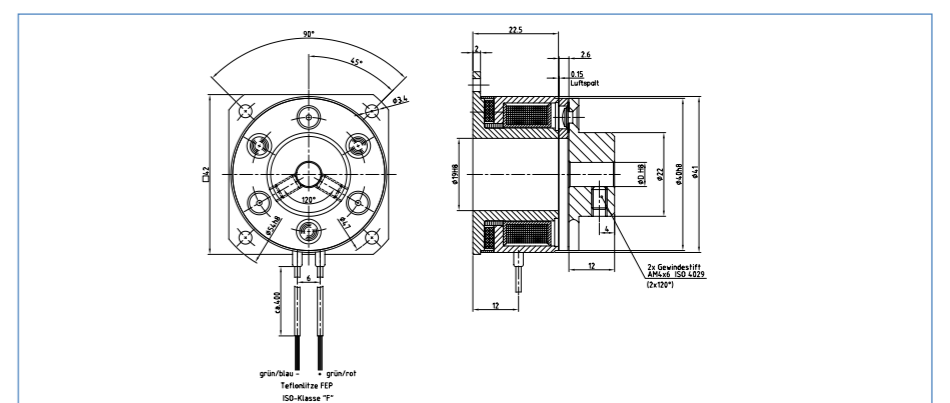
**BRAKE-BKE - 1.0 - 6.35**

6.35 = ID hub borehole 6.35

Technical data

**Electrical data:** 24 V DC/11 W  
**Moment of inertia:** 0.067 kgcm<sup>2</sup>  
**Switch-on/switch-off time:** 25 ms/6 ms  
**Nominal torque:** 2 Nm  
**Hub:** Borehole ... H8 with 2 puncture screws AM4x6 with 4 screws M3  
**Mounting:**  
**Connection:** Lead L = 400 mm  
**Weight** 0.185 kg

Outline drawing (in mm)



Order identifier

**BRAKE-BKE - 2,0 - 6,35**

6.35 = ID hub borehole 6.35  
 8.0 = ID hub borehole 8.0