

Compact Line

Spring-applied single-disc brake

76 13106H00
76 13113A00



Kendrion – the brake experts

As a solution provider, Kendrion develops, produces and markets innovative and high-quality electromagnetic and mechatronic systems and components for customers all over the world.

In the Industrial Drive Systems business unit, electromagnetic brakes and clutches are developed and produced for industrial drive engineering. They are used for the accelerating, braking, positioning, holding and securing of movable drive components and loads. Areas of application for our brakes and clutches are primarily in the areas of robotic and automatic control engineering, machine tool and production machinery as well as medical technology and material handling.

Our main site is located in Villingen in the Black Forest, Germany. Industrial Drive Systems can also rely on additional production sites and subsidiaries in Aerzen (Germany), China, Great Britain and Italy, as well as numerous sales partners all over the world.

Tradition and progress

The long-established BINDER brand laid the foundations for the successful development of Industrial Drive Systems. In the year 1911, Wilhelm Binder founded his company and began at the start of the 1920s with the development and production of electromagnetic components. In 1997, the company was taken over by the Dutch group Schuttersveld N.V., today Kendrion N.V..

The former magneta GmbH & Co. KG belongs to the Kendrion Group since 2010. As the present Kendrion (Aerzen) GmbH, the innovative company continues to develop and produce electromagnetic clutches and brakes along with magnetic particle clutches and brakes at its site in Aerzen.

Kobra greensigned safety brakes

As the first company, we at Kendrion developed safety brakes that contribute to the well-being of the environment in two separate ways. The reduced energy consumption was just as important to us as the ecology in the entire value-creation process. The KOBRA (Kendrion Optimised Brake) spring-applied safety brake is the impressive result, and the pioneer product of the Kendrion greensigned strategy.

Kendrion – We magnetise the world!

www.kendrion.com



About the Compact Line

The Compact Line is comprised of spring-applied single-disc brakes delivered as fully assembled units to ensure easy attachment to the motor. Due to their compact design,

these brakes are ideally suited to fit into confined spaces.

Electromagnetically operated spring-applied brakes generate the brake torque when voltage is removed.

Versions

76 13106H00

torque 1 Nm

DC direct current / AC alternating current

76 13113A00

torque 8 Nm

DC direct current

Other torques on request

Applications

Machining equipment

Building installations

Wheelchairs...

Data sheets – General information

The Operating Instructions must be strictly observed during the set-up of the machine (e.g. motor) and during the start-up, operation and maintenance of the brakes. The state-of-the-art brakes have been designed, built and tested in accordance with the requirements of DIN VDE 0580 concerning electromagnetic devices and components. Additional information on technical specifications given in the data sheets is included in the operating instructions.



Spring-applied single-disc brake

DC or single-phase AC

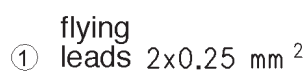
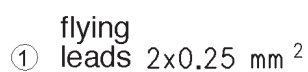
Versions	76 13106H00 - DC - single-phase AC
Standard rated voltages	76 13106H00 - 24 V DC - 230 V AC, 50 Hz
Protection	IP 00
Thermal class	F
Rated torques	1 Nm
Accessories (options)	mounting screws
Note	Specification subject to change without notice. The „General technical information“ and the „Operating instructions“ 76 13106H00 / 76 13706H00 must be strictly observed.



Technical data

Size	Rated torque	Max. speed	Max. switching power	Max. switching power energy (Z = 1)	Rated power		Response times		Moment of inertia hub and friction disc	Weight
							Coupling time	Disconnection time		
	M ₂ [Nm]	n _{max} [rpm]	P _{max} [kJ/h]	W _{max} [kJ]	P _N [W]	P _S [VA]	t ₁ [ms]	t ₂ [ms]	J [kgcm ²]	m [kg]
06	1	8000	50	16	14	24	15	20	0.096	0.42

Dimensions [mm]



Size	d	d ₁	d ₂	d ₃ (H7)	d ₄	b	b ₁	L	L ₁	L ₂	L ₃	s	s _{max}	M
06	65	12.2	28.7	6 ⁽¹⁾ / 10 ⁽²⁾	56	28	23	5.5	1.35	6	250	0.2	0.5	4

¹⁾ Min. bore with keyway JS9 as per DIN 6885, sheet 1.

2) Max. bore with keyway JS9 as per DIN 6885, sheet 1

Supporting keyway over entire length. Shaft ISO fitting k6. ^(1), 2)

Spring-applied single-disc brake

DC

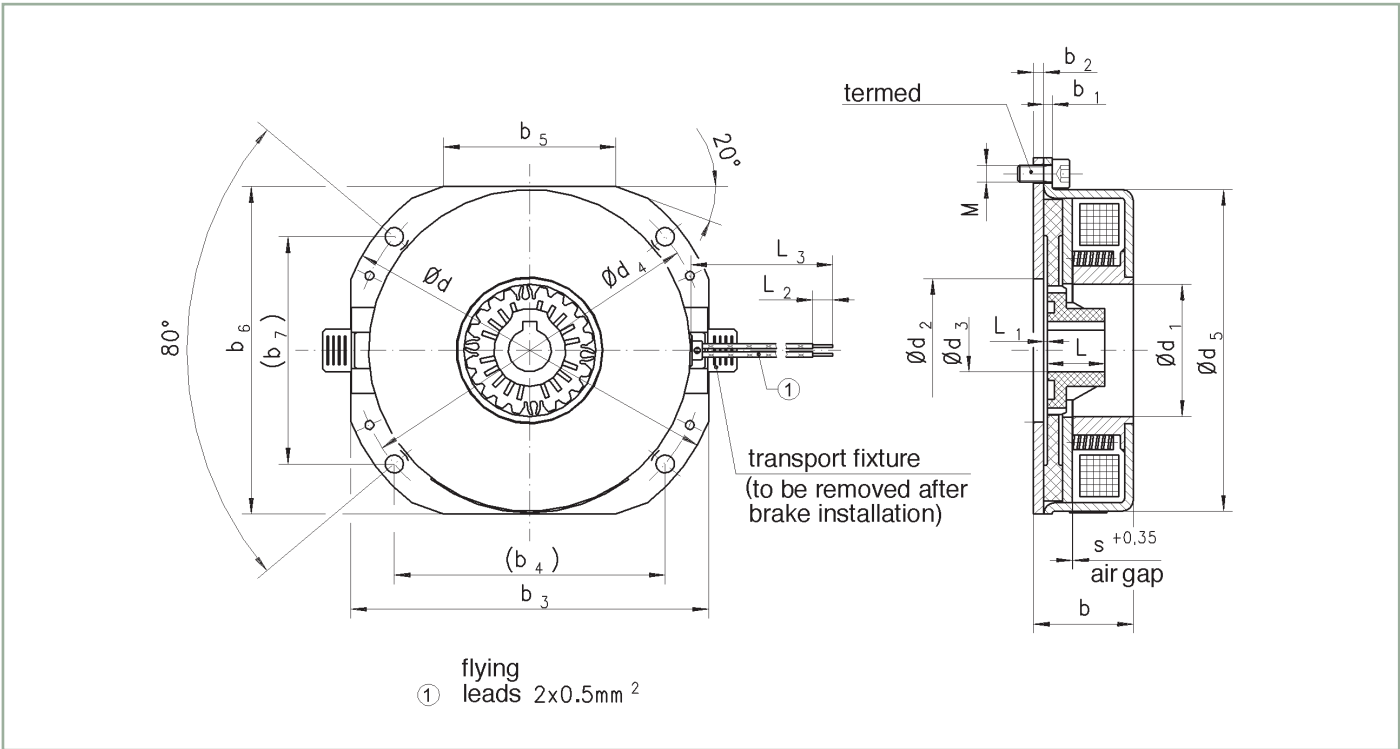
Versions	76 13113A00
Standard rated voltages	102 V, 178 V DC
Protection	IP 54 (when installed under motor fan hood)
Thermal class	F
Rated torques	8 Nm, other torques on request
Accessories (options)	flange, mounting screws
Note	Specification subject to change without notice. The „General technical information“ and the „Operating instructions“ 76 13113A00 must be strictly observed.



Technical data

Size	Rated torque	Max. speed	Max. switching power		Max. switching energy (Z = 1)	Rated power	Response times		Moment of inertia hub and friction disc	Weight
			built in	attached			Coupling time	Disconnection time		
	M ₂ [Nm]	n _{max} [rpm]	P _{max} [kJ/h]	P _{max} [kJ/h]	W _{max} [kJ]	P _N [W]	t ₁ [ms]	t ₂ [ms]	J [kgcm ²]	m [kg]
13	8	3000	300	100	32	33	25	30	1.5	1.2

Dimensions [mm]



Size	d	d ₁	d ₂	d ₃ (h9)	d ₄	d ₅	b	b ₁	b ₂	b ₃
13	134	46	50	12 ⁽¹⁾ / 29 ⁽²⁾	123	112	34.5	3	3.5	124.5

Size	b_4	b_5	b_6	b_7	L	L_1	L_2	L_3	s	s_{\max}	M
13	94.2	60	114	79	20.1	1.2	7	400	0.15	0.9	6

¹⁾ Min. bore with keyway P9 as per DIN 6885, sheet 1.

²⁾ Max. bore with keyway P9 as per DIN 6885, sheet 1.

Supporting keyway over entire length. Shaft ISO fitting k6. (1), (2))



INDUSTRIAL

WE MAGNETISE THE WORLD

Kendrion (Villingen) GmbH
Wilhelm-Binder-Strasse 4-6
78048 Villingen-Schwenningen
Germany
Tel: +49 7721 877-0
Fax: +49 7721 877-1462
sales-ids@kendrion.com
www.kendrion.com