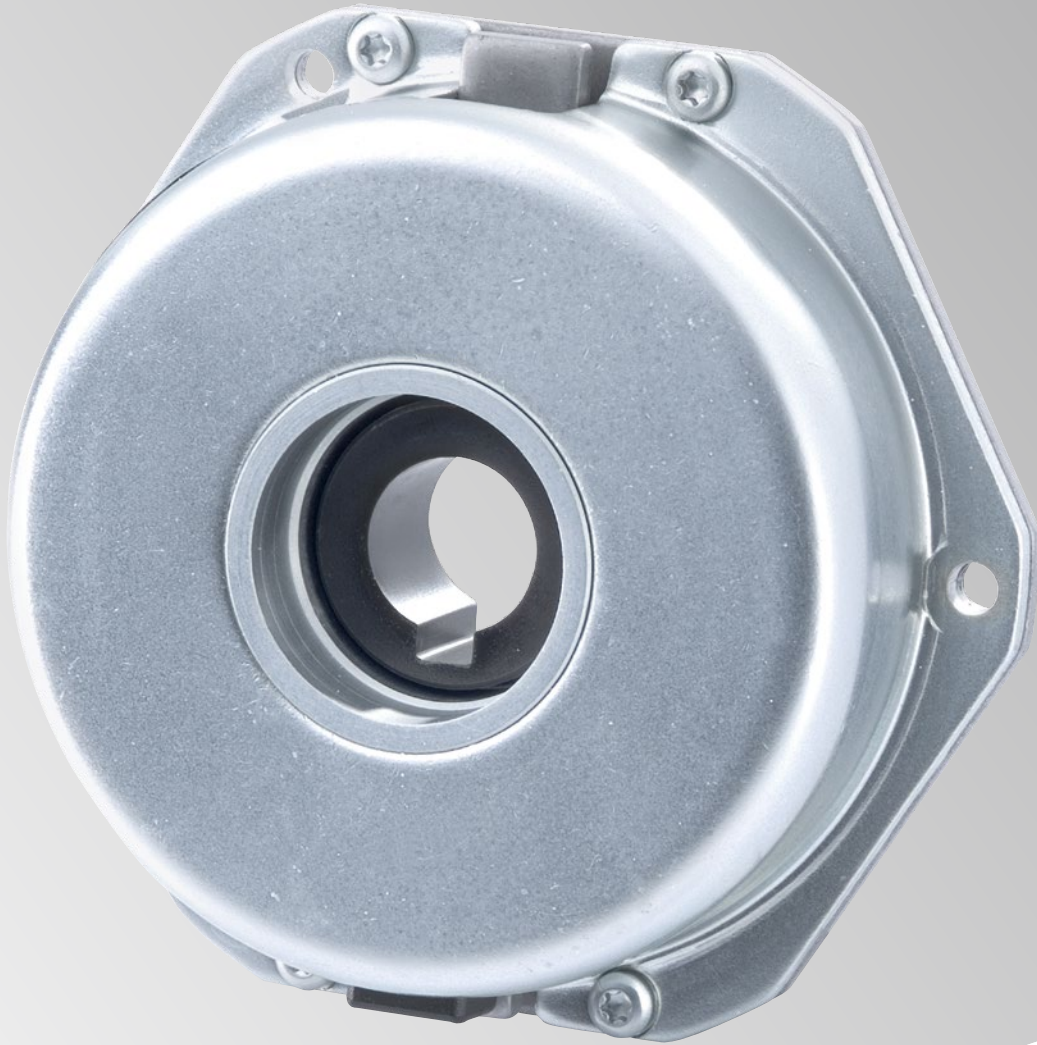




WE MAGNETISE THE WORLD



## Compact Line

Spring-applied single-disc brake

76 13106H00  
76 13113A00



INDUSTRIAL DRIVE SYSTEMS



## Kendrion – The brake experts

As a solution provider, Kendrion develops, produces and markets innovative and high-quality electromagnetic and mechatronic systems and components for industrial and automotive applications. Kendrion is very serious about its commitment to addressing the technical challenges of the future. Which is why the responsible use of resources along the entire value chain, and trustworthy business practices, are deeply ingrained in our corporate culture.

### The right brakes for every situation

The Industrial Drive Systems business unit develops and produces electromagnetic brakes and clutches for industrial drive engineering. They are used for the accelerating, braking, positioning, holding and securing of movable drive components and loads. The areas of application for our brakes and clutches are primarily in robotics and automation technology, machine tool and production machinery, as well as in medical technology and material handling.

'Servo Line', our newly designed spring-applied brake for servo motors, completes our product portfolio, enabling us to provide the ideal solution for any application.

### Worldwide availability

The headquarters of Industrial Drive Systems is located in Villingen within Germany's Black Forest. However, the business unit can also rely on additional production sites and subsidiaries in Aerzen (Germany), China, the UK and Italy, as well as numerous sales partners all over the world.

### Tradition and progress

It was the long-established BINDER brand that laid the foundations for the successful development of Industrial Drive Systems. Wilhelm Binder founded his company in 1911, and during the early 1920s he began developing and manufacturing electromagnetic components. In 1997, the business was taken over by Dutch group Schuttersveld N.V., today Kendrion N.V.

The former magneta GmbH & Co. KG has been part of the Kendrion Group since 2010. Now known as Kendrion (Aerzen) GmbH, this innovative company continues to develop and produce permanent magnet brakes for small motors, electromagnetic clutches and brakes at its site in Aerzen, along with magnetic particle clutches and brakes.

### Kendrion – We magnetise the world!

[www.kendrion-ids.com](http://www.kendrion-ids.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

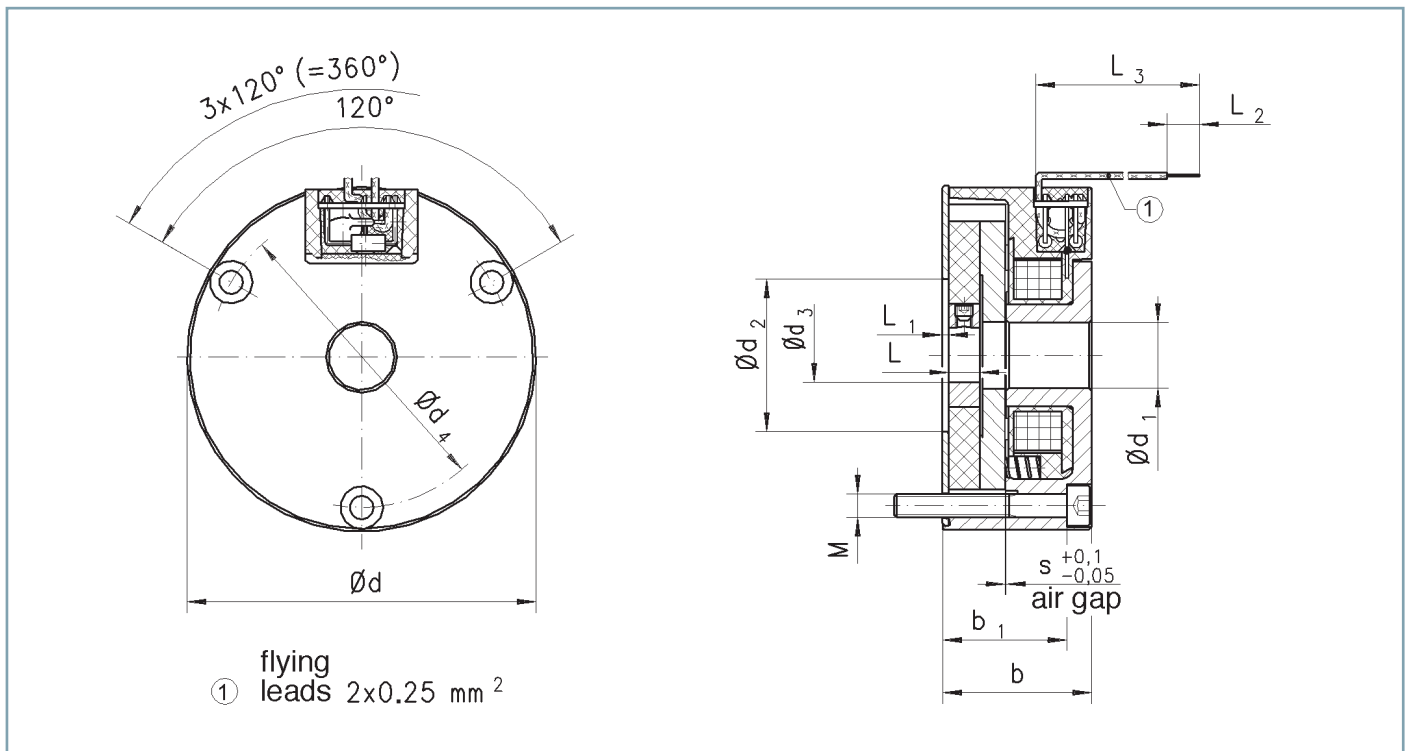
Versions	76 13106H00 - DC - single-phase AC
Standard rated voltages	76 13106H00 - 24 V DC - 230 V AC, 50 Hz
Protection	IP 00
Thermal class	F
Rated torques	1 Nm
Accessories (options)	mounting screws
Note	Specification subject to change without notice. The „General technical information“ and the „Operating 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
					$P_N$ [W]	$P_S$ [VA]	Coupling time	Disconnection time		
	$M_2$ [Nm]	$n_{max}$ [rpm]	$P_{max}$ [kJ/h]	$W_{max}$ [kJ]			$t_1$ [ms]	$t_2$ [ms]	J [kgcm <sup>2</sup> ]	m [kg]
06	1	8000	50	16	14	24	15	20	0.096	0.42

Dimensions [mm]



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

<sup>1)</sup> Min. bore with keyway JS9 as per DIN 6885, sheet 1.

<sup>2)</sup> Max. bore with keyway JS9 as per DIN 6885, sheet 1

Supporting keyway over entire length. Shaft ISO fitting k6. (<sup>1)</sup>, <sup>2)</sup>)

# Spring-applied single-disc brake DC

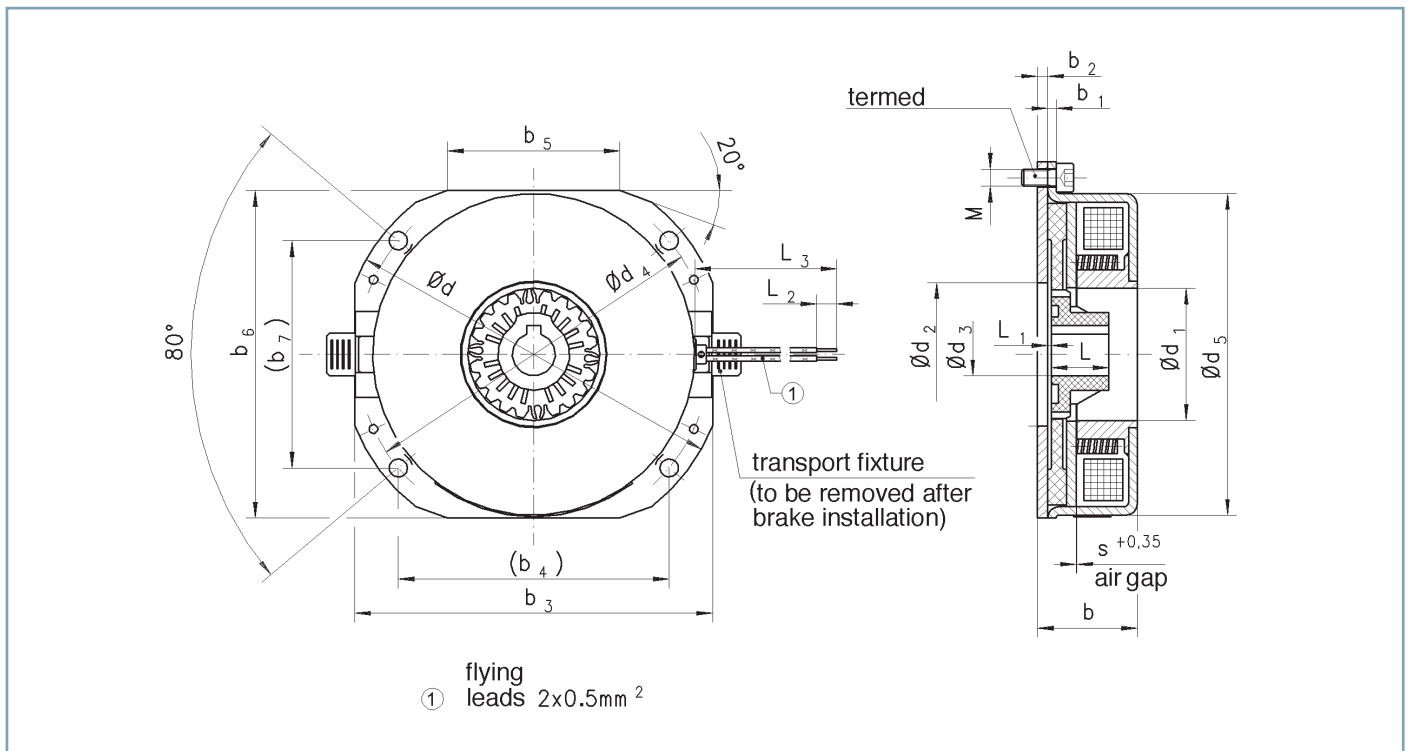
Versions	76 13113A00
Standard rated voltages	102 V, 178 V DC
Protection	IP 54 (when installed under motor fan hood)
Thermal class	F
Rated torques	8 Nm, other torques on request
Accessories (options)	flange, mounting screws
Note	Specification subject to change without notice. The „General technical information“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



## Technical data

Size	Rated torque $M_2$ [Nm]	Max. speed $n_{max}$ [rpm]	Max. switching power		Max. switching energy (Z = 1) $W_{max}$ [kJ]	Rated power $P_N$ [W]	Response times		Moment of inertia hub and friction disc $J$ [kgcm <sup>2</sup> ]	Weight $m$ [kg]
			built in $P_{max}$ [kJ/h]	attached $P_{max}$ [kJ/h]			Coupling time $t_1$ [ms]	Disconnection time $t_2$ [ms]		
13	8	3000	300	100	32	33	25	30	1.5	1.2

## Dimensions [mm]



Size	d	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> (h9)	d <sub>4</sub>	d <sub>5</sub>	b	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>
13	134	46	58	12 <sup>1)</sup> / 29 <sup>2)</sup>	123	112	34.5	3	3.5	124.5

Size	b <sub>4</sub>	b <sub>5</sub>	b <sub>6</sub>	b <sub>7</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	s	s <sub>max</sub>	M
13	94.2	60	114	79	20.1	1.2	7	400	0.15	0.9	6

<sup>1)</sup> Min. bore with keyway P9 as per DIN 6885, sheet 1.

<sup>2)</sup> Max. bore with keyway P9 as per DIN 6885, sheet 1.

Supporting keyway over entire length. Shaft ISO fitting k6. (<sup>1)</sup>, <sup>2)</sup>)



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