



Product Catalog



Product Brochure

www.reachgroup.cn
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Southwest Airport Economic Development Zone,
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REACH

Electromagnetic Brakes

Stable Electromagnetic Brakes
Choose REACH



REACH Machinery Co., Ltd.



To be the First Choice for Global Customers
Stock Code:301596

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► Electromagnetic Brake Product Lines

Spring-Applied Brakes

Stable & Reliable / Rapid Response / Safe Braking / Easy Maintenance

Electromagnetic Brakes for Servo Motors

Suitable for high-precision, highreliability control applications, such as robotics, automation, machine tools, joint modules, etc.



Electromagnetic Brakes for General Industries

Suitable for industrial motion control applications, such as wind power, aerial work platforms, construction machinery, marine equipment, port machinery, elevators, mobility scooters, etc.



Permenant Magnet Brakes

Low Noise / Zero Backlash / Compact Design / Low Energy Consumption / Rapid Response / Stable Torque

Suitable for high-safety and high-response applications, such as robotics, automation, machine tools, joint modules, EMB (Electro-Mechanical Brakes), etc.



Power-on Brakes

Engage on Power-on / Release on Power-off / Compact Design / Rapid Response

Suitable for applications requiring frequent start-stop, precision braking, and energy savings, such as automatic vehicle side doors, forklifts, platform screen doors, turnstiles, etc.

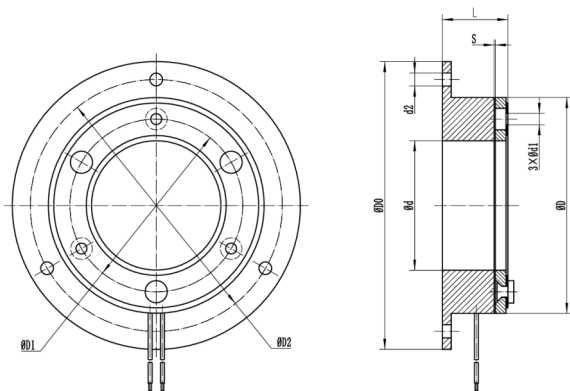


Permanent Magnet Brakes

REB16 Large Inner Hole Permanent Magnet Brakes



Installation and Operating Instructions



Technical Data

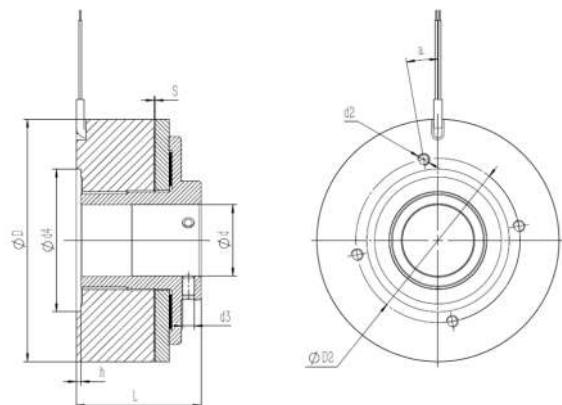
Frame Size	Torque /Nm	Voltage /V	Power /W	Current /A	Insulation Class	Max. Rotational Speed/rpm	Moment of Inertia/kg · m ²	Allowable Braking Energy per Stop/J	Total Braking Energy/J	Engagement Time/ms	Release Time/ms
02	0.06	16	1.5	0.094	F	6000	7.7×10^{-7}	/	/	40	60
03	0.1	24	4	0.167	F	6000	1.7×10^{-6}	/	/	40	60
04	0.36	24	5.4	0.225	F	6000	3.4×10^{-6}	/	/	40	60
05	1	24	3.8	0.158	F	6000	1.0×10^{-5}	/	/	40	60
06	2.5	24	2.8	0.117	F	6000	3.1×10^{-5}	/	/	40	60
07	6	24	12.6	0.525	F	6000	6.7×10^{-5}	/	/	60	100
08	8	24	13	0.542	F	6000	1.1×10^{-4}	/	/	60	100
10	10	24	10	0.417	F	6000	2.2×10^{-4}	/	/	60	100
12	20	24	12	0.5	F	6000	5.2×10^{-4}	/	/	60	100

Frame Size	D	d	L	D0	D1	D2	d1	d2	S
02	29	17	11.8	36	23	33	2	4×φ2.2	0.15-0.25
03	35	22	12	43.5	28.5	39.5	2.2	3×φ2.8	0.2-0.3
04	42	22	11.8	50	31	46	2.2	4×φ2.4	0.2-0.3
05	54	37	12	66	45.5	60	2.2	3×φ3.5	0.2-0.3
06	68.5	48	14.9	83.5	58.5	76	3.2	3×φ4.2	0.3-0.4
07	74	48	18	96	59	83	3.2	6×φ3.5	0.3-0.4
08	86.0	58.0	17.1	96	72	91	3.2	6×φ3.3	0.3-0.4
10	103.4	70	20.2	123.5	87	115	4.2	6×φ4.2	0.4-0.5
12	120	80	24.9	140	100	105	4.2	6×φ4.2	0.5-0.6

REB17 Standard Permanent Magnet Brakes



Installation and Operating Instructions



Technical Data

Frame Size	Torque /Nm	Voltage /V	Power /W	Current /A	Insulation Class	Max. Rotational Speed/rpm	Moment of Inertia/kg · m ²	Allowable Braking Energy per Stop/J	Total Braking Energy/J	Engagement Time/ms	Release Time/ms
02	0.4	24	5	0.208	F	6000	1.9×10^{-6}	50	10000	30	80
03	1	24	6	0.25	F	6000	3.2×10^{-6}	80	16000	30	80
04	4	24	8	0.333	F	8000	1.1×10^{-5}	130	65000	30	80
05	8.5	24	10	0.417	F	8000	4.5×10^{-5}	240	120000	30	80
06	13	24	12	0.5	F	8000	5.2×10^{-5}	150	750000	30	80
07	17	24	15	0.625	F	10000	7.8×10^{-5}	500	750000	30	90
08	23	24	20	0.833	F	10000	1.5×10^{-4}	1200	1000000	50	100
09	31.5	24	22	0.917	F	10000	2.9×10^{-4}	2500	1700000	50	100
10	48	24	24	1	F	10000	5.1×10^{-4}	7000	4700000	60	200
12	100	24	30	1.25	F	10000	1.5×10^{-3}	10000	5400000	60	220

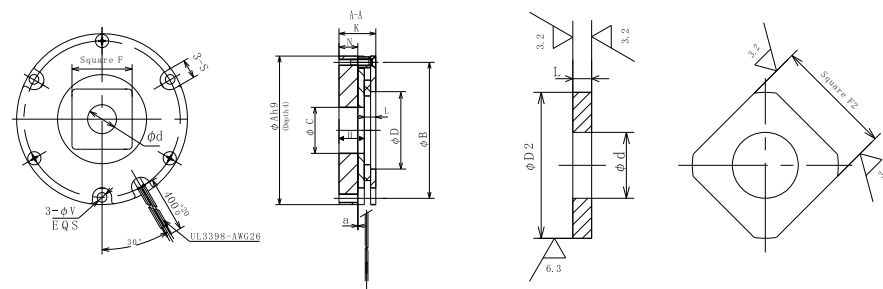
Frame Size	Torque /Nm	Power /W	D	d	L	D2	d2	d3	d4	h	S
02	0.4	5	28	6	22	22	3×M2	3×M2	/	/	0.15-0.25
03	1	6	35	8	25.8	23	3×M3	3×M3	/	/	0.2-0.3
04	4	8	48	10	34	42	4×M4	3×M4	25	/	0.25-0.35
05	8.5	10	58	12.2	37.9	42	4×M3	3×M4	28	2	0.25-0.35
06	13	12	68	17	36	54	4×M4	3×M5	47	2	0.25-0.35
07	17	15	72	17.5	39.2	54	4×M4	3×M5	47	2	0.3-0.4
08	23	20	82	25.2	42.2	62	4×M5	3×M5	52	2.5	0.3-0.4
09	31.5	22	92	30.2	44.6	72	4×M6	3×M6	62	2.5	0.3-0.4
10	48	24	102	30.5	53.2	72	4×M6	3×M6	62	2.5	0.3-0.4
12	100	30	122.3	30.5	59.2	83	4×M6	3×M8	62	2.5	0.4-0.5

Spring-Applied Brakes

REB18SLE Ultra-thin Brakes



Installation and Operating Instructions



Technical Data

Frame Size	Torque /Nm	Coil(at 20°C)								Insulation Class	Max. Rotational Speed [r/min]	Moment of Inertia J[kg·m ²]	Allowable Braking Energy per Stop E _{ba} [J]	Total Braking Energy E _T [J]	Engagement Time t _a [ms]	Release Time t _{ar} [ms]	Mass [kg]
		Overexcitation Output				Steady-State Excitation Output											
		Voltage [V]	Power [W]	Current [A]	Resistance [Ω]	Voltage [V]	Power [W]	Current [A]	Resistance [Ω]								
25SLE	0.1	24	14	0.58	41.14	7	1.191	0.17	41.14	F	6000	8.89×10 ⁻⁸	0.17	34	40	25	0.03
35SLE	0.2	24	12	0.5	48	7	1.02	0.146	48	F	6000	9.6×10 ⁻⁷	1.9	380	80	40	0.06
40SLE	0.5	24	16.5	0.688	34.91	7	1.404	0.2	34.91	F	6000	1.5×10 ⁻⁶	2.9	580	80	40	0.12
45SLE	1	24	16	0.67	36	7	1.36	0.194	36	F	6000	5×10 ⁻⁶	9.8	1960	80	40	0.16
50SLE	2	24	24	1	24	7	2.041	0.29	24	F	6000	5×10 ⁻⁶	9.8	1960	80	40	0.2
100SLE	3	24	31	1.291	18.58	7	2.637	0.377	18.58	F	6000	1.2×10 ⁻⁵	23	4600	120	60	0.6
110SLE	5	24	30	1.25	19.2	7	2.552	0.364	19.2	F	6000	2.3×10 ⁻⁵	45	9000	120	60	0.8
130SLE	8	24	24	1	24	8	2.67	0.33	24	F	6000	1.8×10 ⁻⁴	356	71200	120	60	1

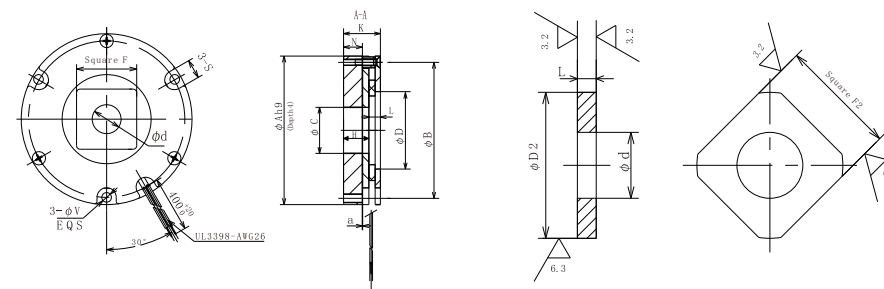
Unit: mm

Frame Size	Radial Dimensions								Axial Dimensions				Machining Dimensions of Rotor Slot			
	A	B	C	D	dmax	F	S	V	H	K	N	a	L	D2	F2	dmax
	Outer Diameter	Mounting Location Circle	Inner Bore	Cover Plate Bore	Shaft Bore	Square	Mounting Notch	Mounting Hole	Mounting Dimensions	Thickness	Stator Thickness	Clearance	Square Hub Thickness	Square Hub Outer Diameter	Square	
25SLE	39	33	16	18	/	12	5	2.2	/	9	4.5	0.1	/	15	12	/
35SLE	48	44	26	28	/	16	5.5	2.7	/	9	4.5	0.1	/	18	16	/
40SLE	56	50	26	28	/	19	5.5	2.7	/	9	4.5	0.1	/	24.5	19	/
45SLE	66	61	34	37	/	24	6.5	3.4	/	10	5	0.1	/	26	24	/
50SLE	71	65	37	37	/	28	6.5	3.4	/	13	6	0.1	/	36	28	/
100SLE	83.5	76	43	47	28	35	10	4.5	/	15	7.9	0.2	4以上	42	35	28
110SLE	93.5	86	47	61.6	30	38	10	4.5	/	16	8	0.2	4以上	46	38	30
130SLE	123.5	115	65	83	36	45	10	4.5	/	18	9	0.2	4以上	55	45	36

REB18LE Super-thin Brakes



Installation and Operating Instructions



Technical Data

Frame Size	Torque /Nm	Coil(at 20C)								Insulation Class	Max. Rotational Speed [r/min]	Moment of Inertia J[kg· m ²]	Allowable Braking Energy per Stop E _{ba} [J]	Total Braking Energy E _T [J]	Engagement Time t _a [ms]	Release Time t _{ar} [ms]	Mass [kg]
		Overexcitation Output				Steady-State Excitation Output											
		Voltage [V]	Power [W]	Current [A]	Resistance [Ω]	Voltage [V]	Power [W]	Current [A]	Resistance [Ω]								
10LE	0.02	24	16	0.67	36	7	1.36	0.19	36	F	6000	4.6×10 ⁻⁹	5	1000	50	20	0.02
15LE	0.06	24	16.5	0.69	35	7	1.4	0.2	35	F	6000	5×10 ⁻⁸	5	1000	20	20	0.03
20LE	0.1	24	16.5	0.69	35	7	1.4	0.2	35	F	6000	8×10 ⁻⁸	15	3000	35	20	0.06
25LE	0.32	24	16.5	0.69	35	7	1.4	0.2	35	F	6000	3×10 ⁻⁷	15	3000	35	20	0.08
35LE	0.62	24	16.5	0.69	35	7	1.4	0.2	35	F	6000	7×10 ⁻⁷	90	1.8×10 ⁴	50	20	0.12
40LE	1.3	24	16.5	0.69	35	7	1.4	0.2	35	F	6000	2×10 ⁻⁶	90	1.8×10 ⁴	60	20	0.16
45LE	2	24	24	1	24	7	2.04	0.29	24	F	6000	3×10 ⁻⁶	150	3×10 ⁴	60	25	0.23
50LE	3.2	24	24	1	24	7	2.04	0.29	24	F	6000	4×10 ⁻⁶	200	4×10 ⁴	60	25	0.4
100LE	5	24	20	0.83	28.8	7	1.7	0.24	28.8	F	5000	2×10 ⁻⁵	500	1×10 ⁵	80	40	0.50
110LE	5.5	24	24.5	1.02	23.5	7	2.08	0.3	23.5	F	5000	3.45×10 ⁻⁶	500	1×10 ⁵	100	40	0.55
130LE	6.6	24	21.5	0.9	26.8	7	1.83	0.26	26.8	F	5000	3.5×10 ⁻⁵	800	1.6×10 ⁵	110	50	1.1
150LE	10	24	18	0.75	32	7	1.53	0.20	32	F	5000	3.9×10 ⁻⁵	1000	2×10 ⁵	110	50	1.5
180LE	25	24	31	1.29	18.6	7	2.6	0.38	18.6	F	5000	3.1×10 ⁻⁵	1500	3×10 ⁵	110	50	2.7
220LE	40	24	32	1.33	18	7	2.72	0.39	18	F	4000	8.6×10 ⁻⁴	2000	4×10 ⁵	300	100	6

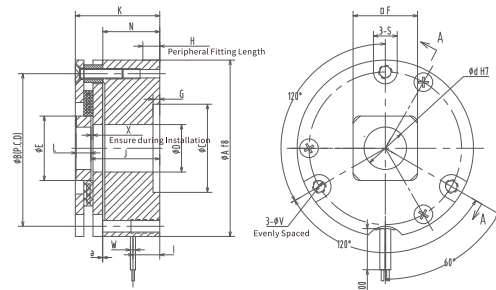
Unit: mm

机座号	Radial Dimensions								Axial Dimensions				Machining Dimensions of Rotor Slot			
	A	B	C	D	dmax	F	S	V	H	K	N	a	L	D2	F2	dmax
10LE	15	\	2.4	6	2.5	4	\	\	14-14.2	17	12	0.1	2.5以上	5.1	4	2.5
15LE	26	22	7	12	4	8	4.3	2.3	9.6-9.8	14	7	0.1	4以上	10	8	4
20LE	32	28	9	16	8	12	5.0	2.3	9.6-9.8	14	7	0.1	4以上	14	12	7
25LE	39	33	9	18	8	12	5.5	3	9.6-9.8	14	7	0.1	4以上	14	12	7
35LE	48	42	16	28	14	19	5.5	3	9.6-9.8	14	7	0.1	4以上	23	19	14
40LE	56	50	16	28	14	19	6.5	3.4	10-10.2	14.5	7.4	0.1	4以上	23	19	14
45LE	66	60	24	37	20	25	6.5	3.4	11.6-11.8	16	8	0.1	4以上	31	25	20
50LE	71	65	22	37	20	25	8.0	4.4	14.1-14.3	19	10.5	0.1	4.5以上	31	25	20
100LE	83.5	76	47	47	28	35	9.0	4.5	17-17.4	25	14.7	0.1	5以上	42	35	28
110LE	93.5	85	50.5	60	38	45	10	4.5	13.55-13.75	20.5	10.5	0.1	5以上	55	45	38
130LE	123.5	115	62	83	38	45	9.5	4.5	18-18.2	24.3	13.7	0.15	5以上	55	45	38
150LE	137.5	130	65	92	42	50	12	4.5	17.6-17.8	25	12.6	0.15	5以上	60	50	42
180LE	167.5	158	80	112	52	60	12	6.5	16.5-16.7	25	13.2	0.15	5以上	74	60	52
220LE	185	175	100	100	52	60	12.5	6.5	32.8-33.3	48	31.5	0.2	5以上	74	60	52

REB18 Square Hub Brakes



Installation and Operating Instructions



Evenly Spaced

Ensure during Installation

Peripheral Fitting Length

Technical Data

Frame Size	Torque /Nm	Coil(at 20°C)				Insulation Class	Max. Rotational Speed (r/min)	Moment of Inertia J[kg·m ²]	Allowable Braking Energy per Stop E _{st} (J)	Total Braking Energy E _T (J)	Engagement Time (ms)	Release Time (ms)	Clearance [°]	Mass [kg]
		Voltage (V)	Power (W)	Current (A)	Resistance (Ω)									
40	0.32	24	6.6	0.27	87.3	F	6000	1.8×10 ⁻⁷	18	3600	40	20	1.5	0.12
	0.45	24	6.9	0.28	83.5	F	6000	2×10 ⁻⁷	18	3600	40	20	1.5	0.12
60	1.5	24	7.6	0.31	76	F	6000	2×10 ⁻⁶	120	2.4×10 ⁴	50	20	1	0.3
	1.5	24	8.3	0.34	69.4	F	6000	2×10 ⁻⁶	120	2.4×10 ⁴	50	20	1	0.35
80	3.2	24	10	0.42	57.6	F	6000	5.4×10 ⁻⁶	360	7.2×10 ⁴	60	40	1	0.5
	3.2	24	10	0.42	57.6	F	6000	5.4×10 ⁻⁶	360	7.2×10 ⁴	60	40	1	0.45
	3.8	24	11.5	0.48	50.1	F	6000	8.2×10 ⁻⁶	360	7.2×10 ⁴	60	40	1	0.45
100	6	24	23	0.96	25	F	5000	3.5×10 ⁻⁵	500	1×10 ⁵	80	40	1	1
110	5.5	24	24.5	1.02	23.5	F	5000	3.45×10 ⁻⁶	500	1×10 ⁵	100	40	1	0.55
130	6.6	24	21.5	0.9	26.8	F	5000	3.5×10 ⁻⁵	800	1.6×10 ⁵	110	50	1	1.1
150	10	24	18	0.75	32	F	5000	3.9×10 ⁻⁵	1000	2×10 ⁵	120	50	1	1.5
180	25	24	31	1.29	18.6	F	5000	3.1×10 ⁻⁵	1500	3×10 ⁵	120	50	1	2.7
220	40	24	32	1.33	18	F	4000	8.6×10 ⁻⁴	2000	3×10 ⁵	300	100	1	6

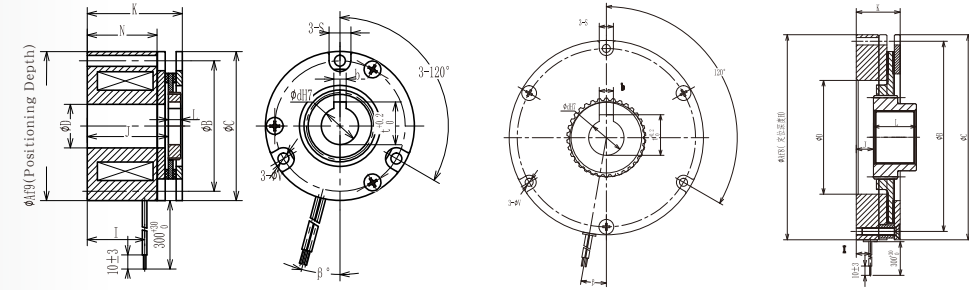
Unit: mm

Frame Size	Radial Dimensions										Axial Dimensions							Shaft diameter
	A	B	C	D	E	S	V	F	G	H	I	J	K	W	N	L	d	
40	33	26.5	16	9	15	6	3.3	12	0.1	4	19	25.5	30	AWG26	22.8	4	8.5	8.5
	35	30	17.2	9.5	15	6	3.3	12	0.2	4	13	20	24.3	AWG26	17	4	8.5	8.5
60	52	45	26	14	24.5	7	3.4	19	2	4	8	20.3	25	AWG22	16.8	5	12.5	12.5
	53	46	/	15	24.5	7	3.4	19	/	4	8	18.5	23.5	AWG22	15	5	12.5	12.5
80	64	56	28	22	31	8	4.3	25	0.2	4	16	25.3	30.2	AWG22	21.5	4.3	17	17
	68	60	28	24	31	8	4.5	25	0.2	4	7.5	19.7	24.5	AWG22	16	5.5	16	17
	70	62	/	19	31	8	4.5	25	/	4	6	17.2	22.3	AWG22	13.8	8	16	17
100	85	75	48	32	36	9	4.5	28	0.2	4	/	27	35.8	AWG22	21.6	8.8	18	18
110	93.5	85	/	50.5	55	10	4.5	45	/	4	/	14.3	20.5	AWG20	10.5	9	25	28
130	123.5	115	/	62	55	9.5	4.5	45	8	4	28	14.6	24.3	AWG20	13.7	9	25	28
150	137.5	130	/	65	60	12	4.5	50	8	4	30	17.6	25	AWG20	12.6	9	27	30
180	167.5	158	/	80	74	12	5.5	60	10	4	34	18	25	AWG20	13.2	9	31	38
220	185	175	/	100	74	12.5	6.5	60	10	4	34	38	48	AWG20	31.5	9	31	38

REB70 Spline Hub Brakes



Installation and Operating Instructions



Technical Data

Frame Size	Torque /Nm	Coil(at 20°C)				Insulation Class	Max. Rotational Speed (r/min)	Moment of Inertia J[kg·m ²]	Allowable Braking Energy per Stop E _{st} (J)	Total Braking Energy E _T (J)	Engagement Time (ms)	Release Time (ms)	Clearance [°]	Mass [kg]
		Voltage (V)	Power (W)	Current (A)	Resistance (Ω)									
40	0.32	24	6.9	0.29	83.5	F	8000	2.85×10 ⁻⁷	18	3600	40	20	0.5	0.15
60	1.5	24	7.6	0.32	75.3	F	8000	2.7×10 ⁻⁶	120	2.4×10 ⁴	50	20	0.5	0.3
	1.5	24	8.3	0.34	69.4	F	8000	2.7×10 ⁻⁶	120	2.4×10 ⁴	50	20	0.5	0.35
80	3.2	24	10	0.42	57.6	F	6000	1×10 ⁻⁵	360	7.2×10 ⁴	60	40	0.5	0.5
	3.8	24	11.5	0.48	50.1	F	6000	1×10 ⁻⁵	360	7.2×10 ⁴	60	40	0.5	0.5
100	10	24	17.6	0.73	32.7	F	5000	3.7×10 ⁻⁵	500	100000	100	40	0.5	1
110	10	24	19.4	0.81	29.7	F	5000	3.7×10 ⁻⁵	500	100000	100	40	0.5	0.85
130	12	24	16.5	0.69	34.9	F	5000	1.15×10 ⁻⁴	800	160000	120	60	0.5	1.2
	16.5	24	24	1	24	F	5000	2.18×10 ⁻⁴	1500	300000	120	60	0.5	1.5
150	35	24	27	1.125	21.3	F	3600	4.22×10 ⁻⁴	1500	300000	180	80	0.5	4.5
180	44	24	36	1.5	16	F	3600	4.5×10 ⁻⁴	1800	3600000	200	80	0.5	3.5
	100	24	50	2.08	11.5	F	3600	6×10 ⁻⁴	1800	3600000	350	120	0.5	7.5
220	150	24	88	3.67	6.55	F	3600	2×10 ⁻³	3400	7800000	400	150	0.5	10

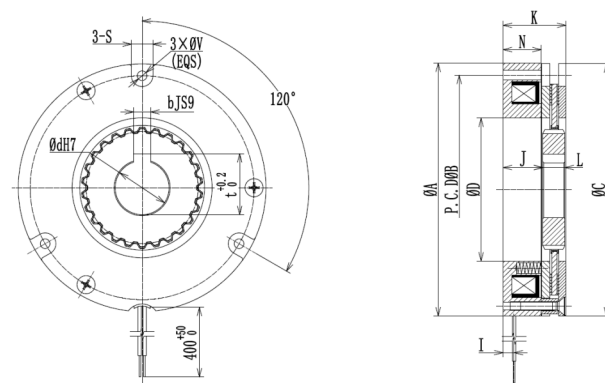
Unit: mm

Frame Size	Radial Dimensions										Axial Dimensions							Shaft diameter		
	A	B	C	D	S	V	H	I	J	K	W	N	L	d	b	t	dMax			
40	35	30	34.8	9.5	6	3.3	4	13	20	24.3	AWG26	17	5	8.5	/	/	8.5			
60	52	45	51.8	14	7	3.4	4	8	20.3	25.1	AWG22	16.8	5	12	/	/	12.5			
	53	46	52.8	15	7	3.4	4	8	18.5	23.5	AWG22	15	5	12	/	/	12.5			
80	68	60	67.8	24	8	4.5	4	7.5	19.7	24.5	AWG22	16	8	16	/	/	17			
	70	62	69.8	19	8	4.5	4	6	17.2	22.5	AWG22	13.8	8	16	/	/	17			
100	84	76	83.8	32	9	4.5	4	9.5	27.5	35	AWG20	22	15	20	6	22.8	25			
110	93.5	85	92.8	49	10	4.5	4	/	18	27	AWG20	15.7	7.5	20	6	22.8	/			
130	110	102	110	61	10	M4	4	7.5	16.5	25	AWG20	13.7	17	26	8	28.3	/			
	115	104	115	65	10	4.5	4	5	18	28.5	AWG20	17.3	25	25	8	28.3	30			
150	145	130	145	49	14	6.6	4	14	18	49	AWG20	27.7	25	25	8	28.3	30			
180	150	140	150	62	12	6.6	4	14	31	42	AWG20	27.2	25	38	10	41.3	45			
	165	150	165	64	15	6.6	4	/	29	64.3	AWG20	42.7	35	28	8	31.3	38			
220	185	170	184	100	14	6.6	4	36	24	77.5	AWG20	40	40	50	14	53.8	50			

REB71 Spline Hub Brakes



Installation and Operating Instructions



Technical Data

Frame Size	Torque /Nm	Coil(at 20°C)				Insulation Class	Max. Rotational Speed (r/min)	Moment of Inertia J[kg·m²]	Allowable Braking Energy per Stop E _b (J)	Total Braking Energy E _t (J)	Engagement Time (ms)	Release Time (ms)	Clearance l' (l)	Mass [kg]
		Voltage (V)	Power (W)	Current (A)	Resistance (Ω)									
40	0.32	24	6.9	0.28	83.5	F	8000	1.8×10 ⁻⁷	18	3600	40	20	1	0.12
60	1.5	24	7.6	0.32	75.3	F	8000	2×10 ⁻⁶	120	2.4×10 ⁴	50	20	1	0.3
	1.5	24	8.3	0.34	69.4	F	8000	2×10 ⁻⁶	120	2.4×10 ⁴	50	20	1	0.35
80	3.2	24	10	0.42	57.6	F	6000	5.4×10 ⁻⁶	360	7.2×10 ⁴	60	40	1	0.5
	3.8	24	11.5	0.48	50.1	F	6000	5.4×10 ⁻⁶	360	7.2×10 ⁴	60	40	1	0.5
100	5	24	17.6	0.73	32.7	F	5000	3.4×10 ⁻⁵	500	100000	100	40	1	1
110	10	24	19.4	0.81	29.7	F	5000	6.7×10 ⁻⁵	500	100000	100	40	1	1.3
130	16	24	21.5	0.90	26.8	F	5000	2.3×10 ⁻⁴	800	160000	120	60	1	1.5
150	30	24	24	1	24	F	3600	3×10 ⁻⁴	1500	300000	180	80	1	2.5
180	38	24	31	1.29	18.6	F	3600	9.4×10 ⁻⁴	1800	360000	180	80	0.8	3.5
220	55	24	19	0.79	30.3	F	3600	1.5×10 ⁻³	2000	400000	220	100	0.8	4

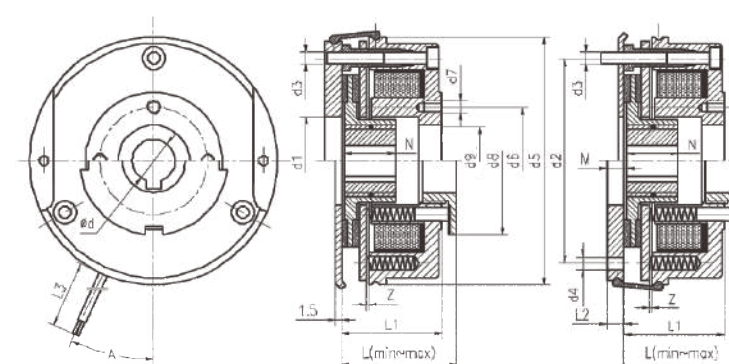
Unit: mm

Radial Dimensions								Axial Dimensions					Shaft Diameter		
Frame Size	A	B	C	D	S	V	I	J	K	N	L	d	b	t	dMax
40	35	30	34.8	9.5	6	3.3	13	20	24.3	17	5	8.5	/	/	8.5
60	52	45	51.8	14	7	3.4	8	20.3	25.1	16.8	5	12	/	/	12.5
	53	46	52.8	15	7	3.4	8	18.5	23.5	15	5	12	/	/	12.5
80	68	60	67.8	24	8	4.5	7.5	19.7	24.5	16	8	16	/	/	17
	70	62	69.8	19	8	4.5	6	17.2	22.5	13.8	8	16	/	/	17
100	83.5	76	82	47	9	4.5	9.5	17	25	14.7	7	20	6	22.8	30
110	93.5	85	92	49	10	4.5	8	19	27	15.7	7	20	6	22.8	30
130	123.5	115	122	62	10	4.5	5	14.6	24.3	13.7	9	24	8	27.3	38
150	137.5	130	136	65	12	4.5	/	15.4	25	12.5	9	24	8	27.3	38
180	167.5	158	166	80	12	5.5	9.5	16	25	12	9	28	8	31.3	50
220	185	175	184	100	12.5	5.5	10	21.3	32.8	19.4	11.5	28	8	31.3	50

REB04 Brakes for Electric Motors



Installation and Operating Instructions



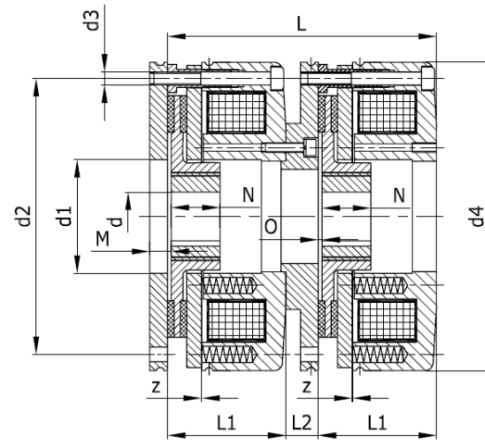
Technical Data

Frame Size	Motor Frame Size	Deceleration Braking Torque(Nm)			Holding Braking Torque(Nm)		Provide Specific Solution According to Requirements(Nm)
06	56,63,71	3	4	5	6	7	8
08	80	6	8	10	12	14	16
10	90	12	16	18	22	26	32
12	100	26	32	38	45	55	60
14	112	55	65	75	85	95	110
16	132	70	85	100	110	130	150
18	160	130	150	180	200	250	300
20	180	230	260	300	350	400	450
25	200	350	400	450	500	650	800
30	225	800	900	1000	1200	1350	1500

Unit: mm

Frame Size	d	d1	d2	d3	d4	Lmin	Lmax	d5	d6	d7	d8	M	N	Z	A	L3	L2	L1	d9
06	11	31	72	3×M4	3×Φ4.5	39.5	43.5	87	37.7	4×M4	52	7	18	0.2	25°	400	6	36.3	25
08	15	41	90	3×M5	3×Φ5.5	47.7	51.7	105	49	4×M5	60	8.5	20	0.2	25°	400	7	42.8	32
10	15	45	112	3×M6	3×Φ6.5	52.5	56.5	130	54	4×M5	68	11	20	0.2	25°	400	9	48.4	42
12	20	52	132	3×M6	3×Φ6.5	59.9	64.9	150	64	4×M5	82	11	25	0.3	25°	400	9	54.9	50
14	25	55	145	3×M8	3×Φ9	72.5	78.5	165	75	4×M6	92	13	30	0.3	25°	1000	11	66.8	60
16	30	70	170	3×M8	3×Φ9	79.3	87.3	190	85	4×M6	102	13.25	30	0.3	25°	1000	11	74.5	68
18	40	77	196	6×M8	6×Φ9	91	99	217	95	4×M8	116	13.75	35	0.4	25°	1000	11	85.1	75
20	40	90	230	6×M10	6×Φ11	108.1	118.1	254	110	4×M10	135	14.5	40	0.4	25°	1000	11	99.6	85
25	50	120	278	6×M10	6×Φ11	117.2	129.2	302	140	4×M10	165	17	50	0.5	25°	1000	12.5	110.7	110
30	70	145	325	6×M10	6×Φ11	144	156	363	180	4×M10	200	25	75	0.6	25°	1000	20	136.5	140

REB04 Double Brakes

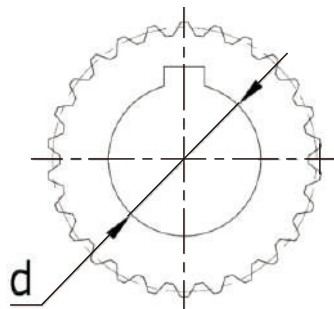


Technical Data

Unit: mm

Frame Size	d1	d2	d3	d4	M	N	O	L	L1	L2	z	L3
06	31	72	3×M4	87	7	18	1	84.6	36.3	12	0.2	400
08	41	90	3×M5	105	8.5	20	1.5	97.6	42.8	12	0.2	400
10	45	112	3×M6	130	11	20	2	109.8	48.4	13	0.2	400
12	52	132	3×M6	150	11	25	2	125.8	54.9	16	0.3	400
14	55	145	3×M8	165	13	30	2	150.6	66.8	17	0.3	1000
16	70	170	3×M8	190	13.25	30	2.25	169	74.5	20	0.3	1000
18	77	196	6×M8	217	13.75	35	2.75	190.2	85.1	20	0.4	1000
20	90	230	6×M10	254	14.5	40	3.5	219.2	99.6	20	0.4	1000
25	120	278	6×M10	302	17	50	4.5	246.4	110.7	25	0.5	1000
30	145	325	6×M10	363	25	75	5	308	136.5	35	0.6	1000

Optional Mounting Dimensions for Spline Hub Bores



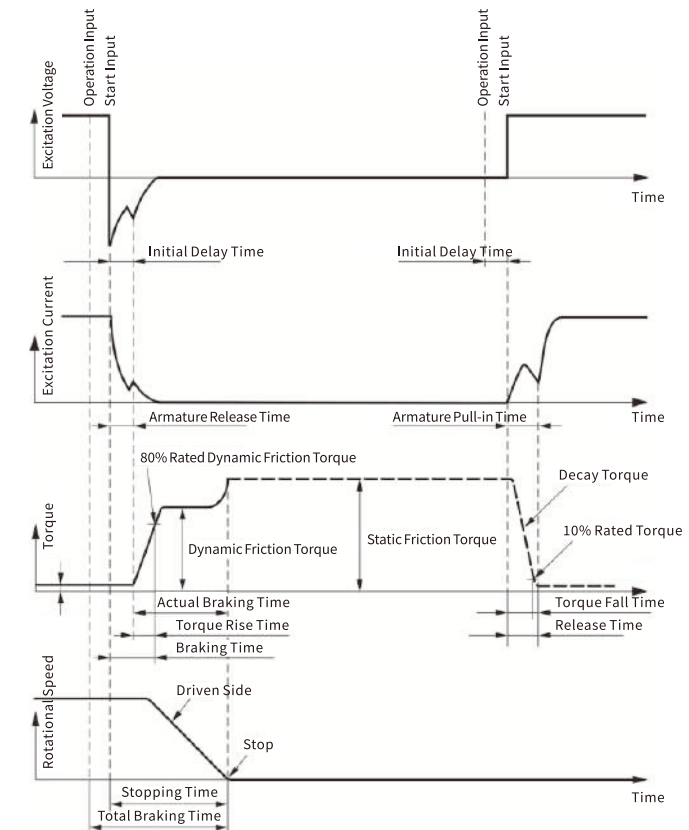
The mounting bore tolerance is H7, and the keyway dimensions conform to DIN 6885/1(GB/T1095-79)JS9. Bore diameters show in bold are standard sizes.

Frame Size	d
06	10/ 11 /12/14/15
08	11/12/14/ 15 /20
10	11/12/14/ 15 /20
12	15/17/ 20 /25
14	20/ 25 /30
16	25/ 30 /35/38
18	30/35/ 40 /45
20	35/ 40 /45/50
25	50 /55/60/65/70
30	65/70/75/80

Operating Time



Installation and Operating Instructions



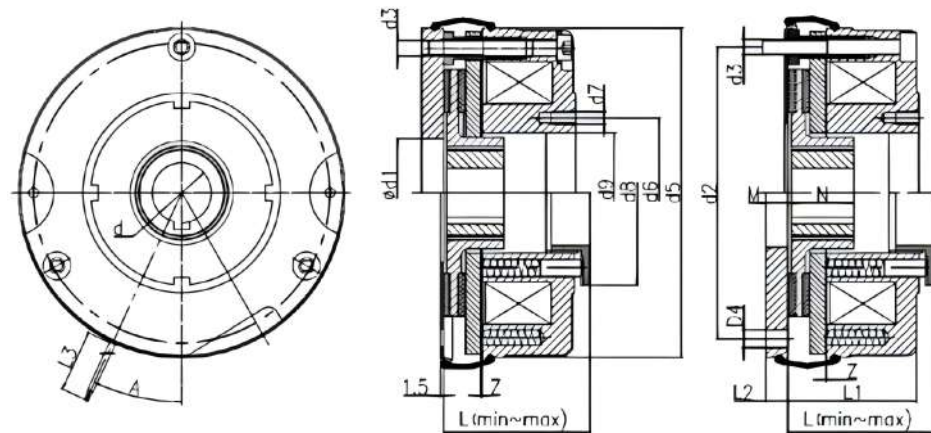
Frame Size	Rated Torque (Nm)	Power (W)	Braking Time t_b (ms)			Release Time t_r (ms)
			t_{b1}	t_{b2}	t_{b3}	
06	4	20	15	15	30	40
08	8	25	15	17	32	50
10	16	30	25	20	45	69
12	32	40	26	30	56	108
14	60	50	27	30	57	190
16	80	55	30	30	60	200
18	150	80	35	43	78	260
20	260	100	65	100	165	340
25	400	110	110	120	230	390
30	1000	250	200	180	380	420

- ⦿ T11 Armature Release Time
- ⦿ T12 Torque Rise Time
- ⦿ T1 Braking Time
- ⦿ T2 Release Time (Armature Engagement Time)
- ⦿ All the above time parameters above are obtained under DC-side control

REB05B Standard Brakes



Installation and Operating Instructions



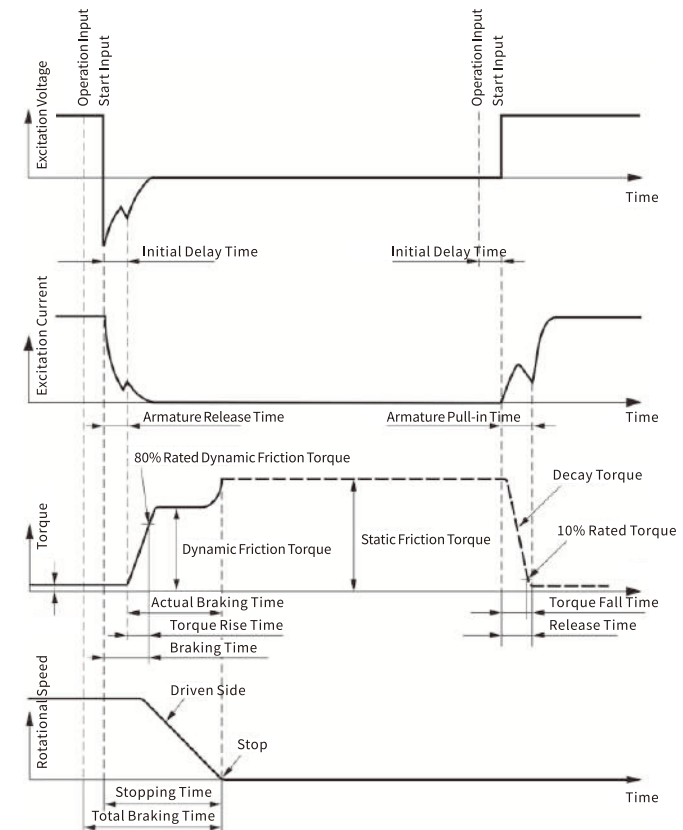
Technical Data

Frame Size	Rated Torque (at 100r/min)					
	Deceleration braking		Rated braking torque	Holding brake		
06	3	3.5	4	6	8	/
08	6	7	9	10	12	15
10	11	14	16	20	25	32
12	23	27	32	40	46	55
14	45	55	60	80	90	100
16	60	70	90	100	125	150
18	115	130	150	180	235	300

Unit: mm

Frame Size	d	d1	d2	d3	d4	Lmin	Lmax	d5	d6	d7	d8	M	N	Z	A	L3	L2	L1	d9
06	11	31	72	3×M4	3×Φ4.5	39.5	43.5	87	37.7	4×M4	52	7	18	0.2	25°	400	6	36.3	25
08	15	41	90	3×M5	3×Φ5.5	47.7	51.7	105	49	4×M5	60	8.5	20	0.2	25°	400	7	42.8	32
10	15	45	112	3×M6	3×Φ6.5	52.5	56.5	130	54	4×M5	68	11	20	0.2	25°	400	9	48.4	42
12	20	52	132	3×M6	3×Φ6.5	59.9	64.9	150	64	4×M5	82	11	25	0.3	25°	400	9	54.9	50
14	25	55	145	3×M8	3×Φ9	72.5	78.5	165	75	4×M6	92	13	30	0.3	25°	1000	11	66.8	60
16	30	70	170	3×M8	3×Φ9	79.3	87.3	190	85	4×M6	102	13.25	30	0.3	25°	1000	11	74.5	68
18	40	77	196	6×M8	4×Φ9	91	99	217	95	4×M8	116	13.75	35	0.4	25°	1000	11	85.1	75

Operating Time



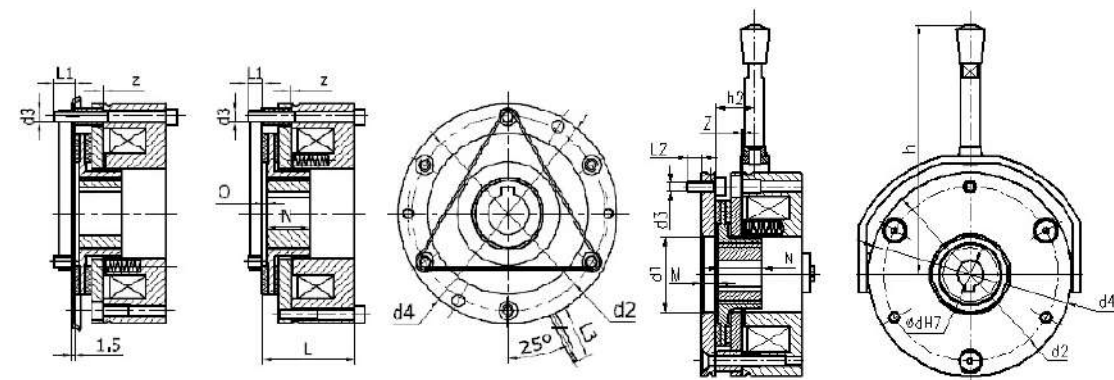
Frame Size	Rated Torque (Nm)	Power (W)	Braking Time t_1 (ms)			Release Time t_2 (ms)
			t_{11}	t_{12}	t_1	
06	4	20	15	15	30	40
08	8	25	15	17	32	50
10	16	30	25	20	45	69
12	32	40	26	30	56	108
14	60	50	27	30	57	190
16	80	55	30	30	60	200
18	150	80	35	43	78	260

- ⦿ T11 Armature Release Time
- ⦿ T1 Braking Time
- ⦿ T2 Release Time (Armature Engagement Time)
- ⦿ T12 Torque Rise Time
- ⦿ All the above time parameters above are obtained under DC-side control

REB05 Brakes for Electric Motors



Installation and Operating Instructions



Technical Data

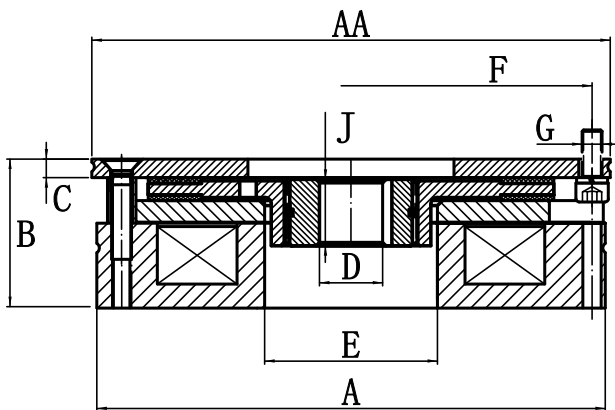
Unit: mm

Frame Size	T	T _{max}	d	d1	d2	d3	d4	M	N	O	L	L1	L2	h	h2	z	L3
06	3	8	11	31	72	3×M4	84	7.5	18	1	35.3	9.7	6	102	15.8	0.2	400
08	6	16	15	42	90	3×M5	102	8.5	20	1.5	42.8	12.2	9	114	16.3	0.2	400
10	10	32	15	44	112	3×M6	130	10	20	2	48.4	11.2	12	129	27.4	0.2	400
12	23	55	20	52	132	3×M6	150	10	25	2	54.9	11	12	162	30	0.3	400
14	50	110	25	60	145	3×M8	165	13	30	2	66.8	14	14	201	33	0.3	1000
16	60	150	30	70	170	3×M8	190	13.3	30	2.25	74.5	12.5	14	250	37.4	0.3	1000
18	150	235	40	77	196	6×M8	217	116	35	2.75	85.1	17.1	16.9	282	128.5	0.4	1000
20	260	400	40	90	230	6×M10	254	135	40	/	99.6	17.8	16.9	321	149.5	0.4	1000
25	400	600	50	120	278	6×M10	302	165	50	/	109	21	19.5	444	182	0.5	1000
30	1000	1350	70	145	325	6×M10	363	200	75	/	134.5	23.5	22.5	832	226	0.6	1000
35	2000	3500	80	150	405/418	6×M16	450	30	/	5	158.6	21.4	26.4	/	/	0.6	1000
40	3000	4500	110	180	415	8×M16	450	30	85	5	158.6	35	25	/	/	1	1000
50	4000	10000	150	200	505	8×M16	540	/	85	5	182	35	25	/	/	1	1000
60	8000	16000	192	260	679.5	12×M20	720	45	125	8	300	42	41	/	/	1	1000

REB05 Super-Thin Brakes



Installation and Operating Instructions



Technical Data

Unit: mm

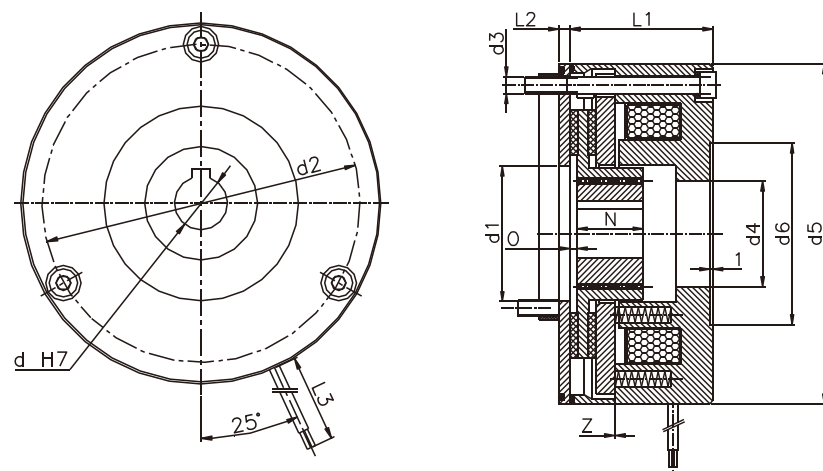
Frame Size	Torque (Km)	A	B	C	D	J	E	F	G	AA
04	2/3/4/6	58/60.4	28/32	3.5	8/12	6	15	38/68	3×M4	60.4/75
06	4/6/8/10	83/84	30	2.7	10/12/15	13.5	31	72	3×M4 4×M4	83/84
10	15/20 25/30	117	26.7 29.7 31/33	1.7/3.5	15/20	15/16	34/42	107/108	3×M5	117/124
12	46/55 60/70/85	153	43/44.4	5.6	19/19.05 20/24/25	20/25	50/52	132/145 168.3 175	3×M6	156/185
14	90/110 120/150	175	61	—	25/30	30	60	152	3×M8	175
16	90/95 110/120 150	197	45.5	8.3	20/25/30	16.8	—	181	3×M6	197

Note: Some specifications use dual-voltage control. Please confirm with our company when selecting the model.

REB05C Fully Enclosed Brakes



Installation and Operating Instructions



Technical Data

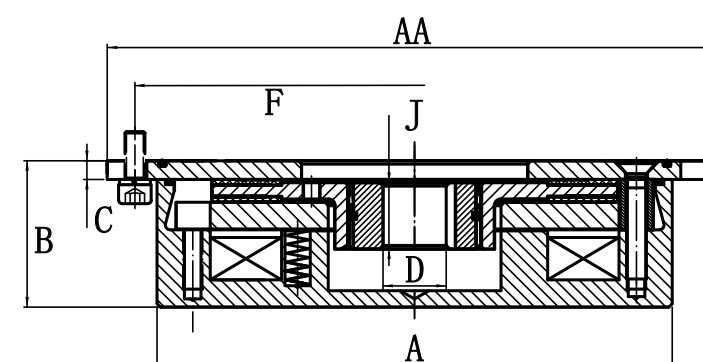
Unit: mm

Motor frame size	Brake frame size	T	Tmax	P(20°C)	d1	d2	d3	d4	L1	L2	d5	d6	O	N	Z	L3
90	10	16Nm	23Nm	30W	45	112	3XM6	3XΦ6.5	48.4	1.5	130	54	1.2	20	0.2	400
100	12	32Nm	46Nm	40W	52	132	3XM6	3XΦ6.5	54.9	6	150	64	2.0	25	0.3	400
112	14	60Nm	80Nm	50W	55	145	3XM8	3XΦ9	67.8	6	168	75	1.5	30	0.3	1000
132	16	80Nm	200Nm	90W	70	170	3XM8	3XΦ9	74.5	7	200	85	2.0	30	0.3	1000
160	18	150Nm	370Nm	85W	77	196	6XM8	4XΦ9	85.1	6	226	95	2.0	35	0.4	1000
180	20	260Nm	460Nm	100W	90	230	6XM10	4XΦ10	99.6	11	258	110	4.0	40	0.4	1000
200	25	400Nm	620Nm	110W	120	278	6XM10	6XΦ10	109	17.5	310	140	5.0	50	0.5	1000

REB05 Fully Enclosed Super-Thin Brakes



Installation and Operating Instructions



Technical Data

Unit: mm

Frame Size	Torque (Km)	A	B	C	D	J	E	F	G	AA
06C	4/6/8/10	89.5/97	43.7/45	—	10/12/15	13.2/18	—	72	3*M4 4*M4	89.5/97
08C	10/12/15 18/20	112	48	—	12/15/20	20	—	90	3*M4	112
10C	15/20 25/30	127/130	31/32.4 44/45	4.9	15/20	9/16/20	4.9	112/142	4*M4 4*M6	125/133
12C	46/60 70/85 95/120	153/155	34/40 43/44 45/57.4	5.6/7/7.5	19/19.05 20/24/25	20 25/30	5.6 7/7.5	168.3 175	4*M6	185
14C	90/110 120/150	173	60	—	20/24/25/30	30	—	150	4*M8	173
16C	90/95 110/120 150/200	185	43	7	19/20/25/30	20/30	7	196	4*M6	205
18C	300 370/410	228	92	10	30/35/40/45	35/40	10	246	8*M8	260

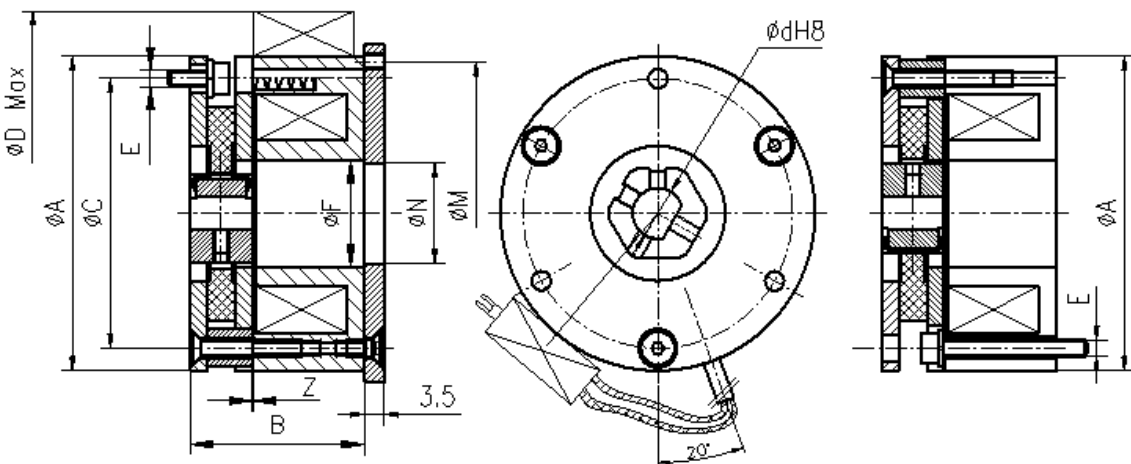
Note: Some specifications use dual-voltage control. Please confirm with our company when selecting the model.

REB05 Micro Brakes



Installation and Operating Instructions

- Basic Assembly with Integrated Rectifier



Technical Data

Unit: mm

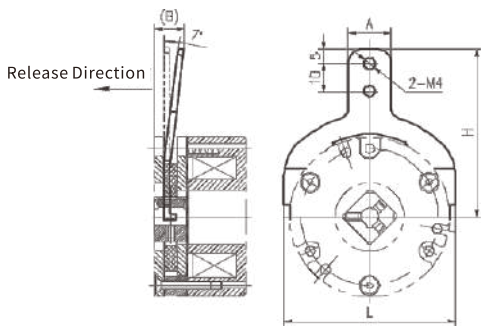
Frame Size	T	Tmax	d(Standard)	C	E	A	B	D	F	Z
0501	0.12	0.24	6	32	2×M2.5	37	32		13.5	0.1
0502	0.25	0.5	7	40	2×M3	47	30	67	16	0.1
0503	0.5	1	6	48	3×M3	56	31.5	76	19	0.15
0504	1	2	8	58	3×M3	65	31.8	85	24	0.2
0505	2	4	8	66	3×M4	75	34.4	95	28	0.2
1136	0.12	0.24	4	31	3×M3	36	22.4		7	0.1
1152	0.5	1	6	45	3×M3	52	32	66	17	0.15
1162	1	2	10	54	3×M4	62	31.6	84	21	0.2

Accessory Description

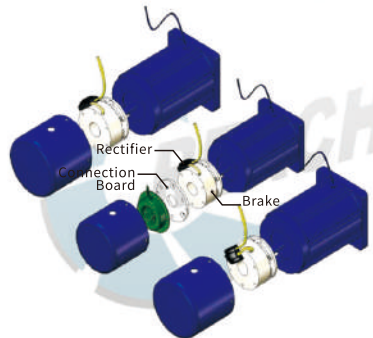
Manual Release Handle

- The manual release handle is used to manually release the brake during equipment installation and commissioning.

Frame Size	H	L	A	B
02	50	51	13	9
03	60	60	15	11
04	70	70	15	12
05	80	80	20	14



Rectifiers and Connection Boards



Rectifier

- To assist customers in designing compact micro motors, we offer built-in rectifiers that can be installed on the end face or the outer cylindrical surface of the brake.

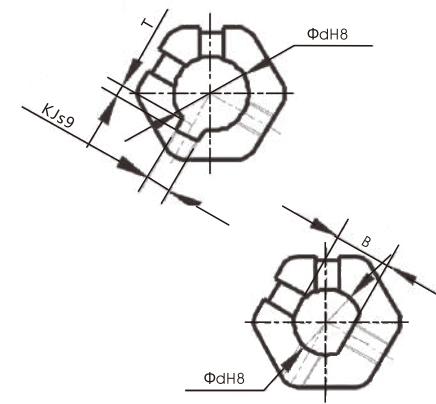
Connection Board

- To facilitate the installation of speed controllers and other motor accessories inside the motor housing, the mounting dimensions of the connection plate can be customized according to customer requirements.

Square Hub Bore

- Unless otherwise specified, the mounting bore tolerance is H8.
- Unless otherwise specified, keyway dimensions conform to DIN 6885/1 (GB/T1095-79) JS9. Bore marked with an asterisk (*) do not have a keyway.
- A flat bore connection is available as an option; the dimension 'B' is customizable.
- The table lists optional mounting bore sizes. Sizes shown in bold are standard; customization is available for special requirements.

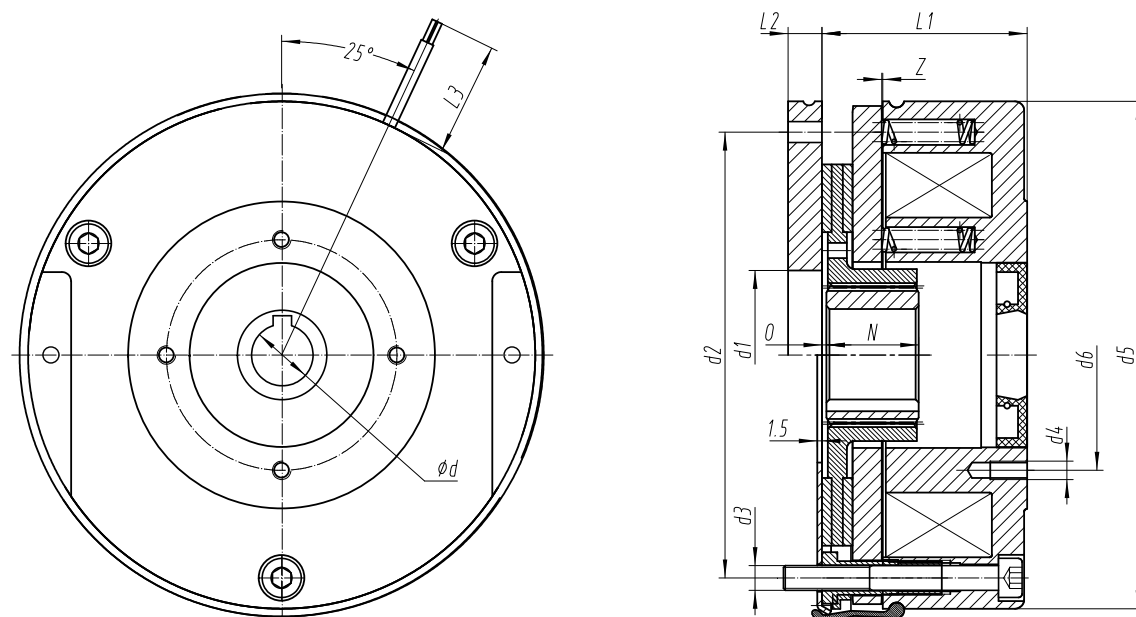
Frame Size	d
01	6
02	6/7
03	6/7/8/9
04	6/7/8/9/10/12
05	8/9/10/11/12/14/15



REB23 Wind Turbine Yaw System Brakes



Installation and Operating Instructions



Technical Data

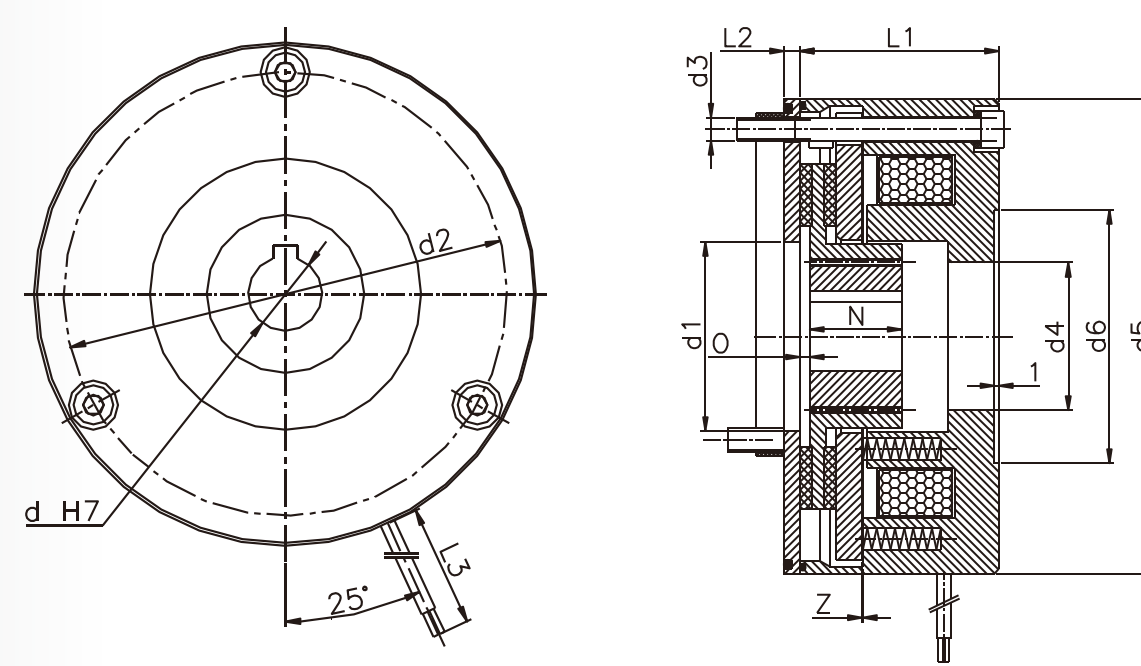
Unit: mm

Motor frame size	Brake frame size	T	Tmax	d1	d2	d3	L1	L2	d4	d5	d6	L3	O	Z	N	P(20°C)
90	10	16Nm	23Nm	44	112	3XM6	48.5	9	4XM5	130	68	400	1.2	0.2	20	30W
100	12	32Nm	46Nm	52	132	3XM6	55	9	4XM5	150	82	400	2.0	0.3	25	40W
112	14	60Nm	80Nm	64	145	3XM8	67.1	11	4XM6	165	92	1000	1.5	0.3	30	55W
132	16	80Nm	140Nm	70	170	3XM8	72	11	4XM6	190	102	1000	2.0	0.3	30	65W
160	18	150Nm	250Nm	95	196	6XM8	83	11	4XM8	217	116	1000	2.0	0.4	35	90W

REB05 Wind Turbine Pitch System Brakes



Installation and Operating Instructions



Technical Data

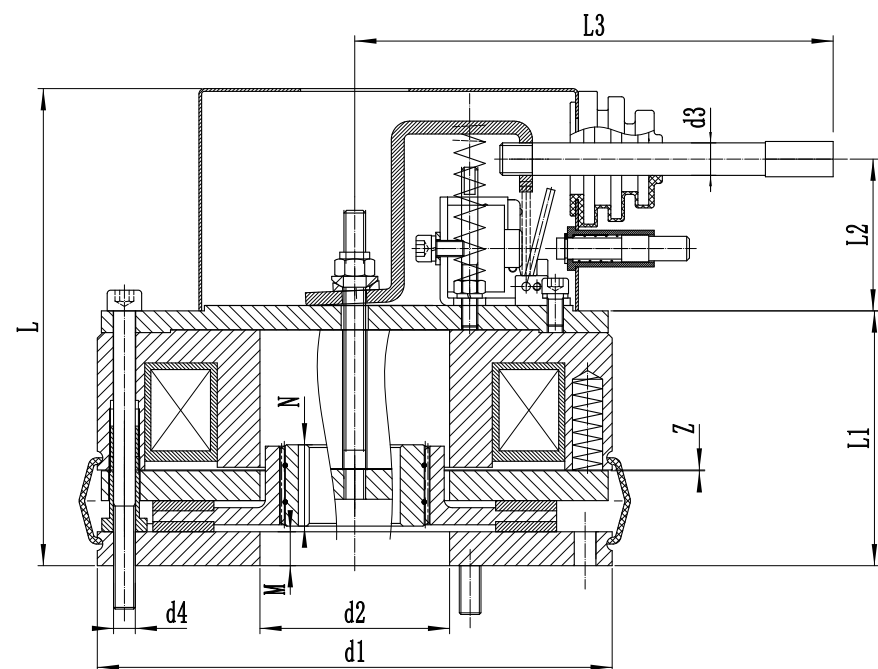
Unit: mm

Motor frame size	Brake frame size	T	Tmax	P(20°C)	d1	d2	d3	d4	L1	L2	d5	d6	O	N	Z	L3
90	10	16Nm	23Nm	30W	45	112	3XM6	3XΦ6.5	48.4	1.5	130	54	1.2	20	0.2	400
100	12	32Nm	46Nm	40W	52	132	3XM6	3XΦ6.5	54.9	6	150	64	2.0	25	0.3	400
112	14	60Nm	80Nm	50W	55	145	3XM8	3XΦ9	67.8	6	168	75	1.5	30	0.3	1000
132	16	80Nm	200Nm	90W	70	170	3XM8	3XΦ9	74.5	7	200	85	2.0	30	0.3	1000
160	18	150Nm	370Nm	85W	77	196	6XM8	4XΦ9	85.1	6	226	95	2.0	35	0.4	1000
180	20	260Nm	460Nm	100W	90	230	6XM10	4XΦ10	99.6	11	258	110	4.0	40	0.4	1000
200	25	400Nm	620Nm	110W	120	278	6XM10	6XΦ10	109	17.5	310	140	5.0	50	0.5	1000

REB05F Wind Vane Brakes



Installation and Operating Instructions



Technical Data

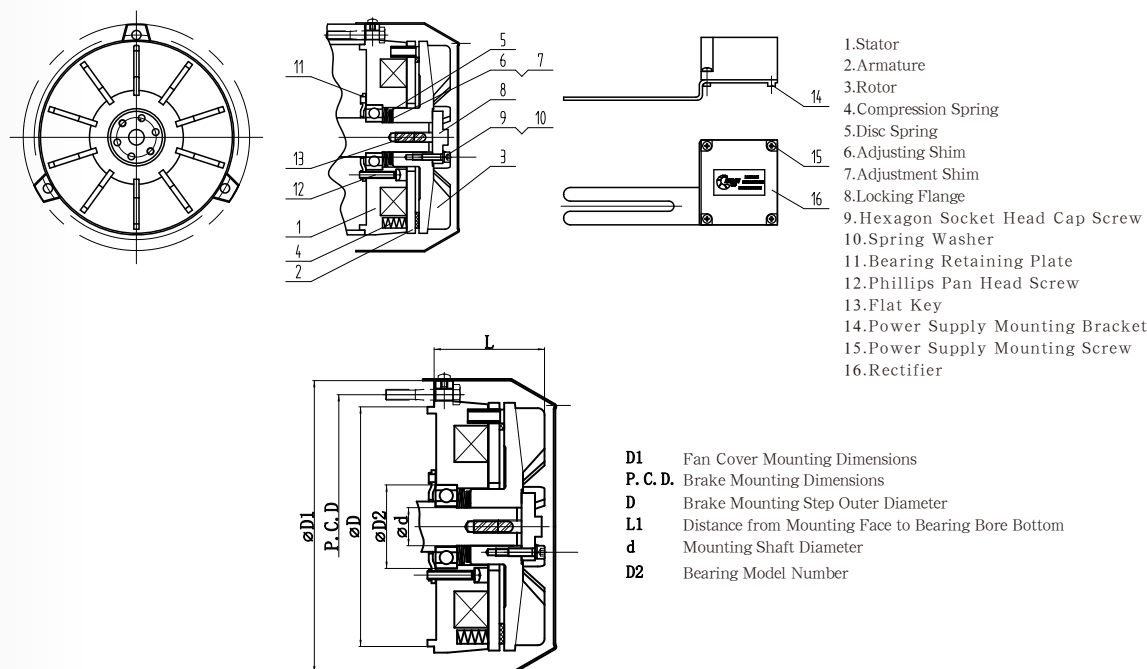
Unit: mm

Frame Size	Braking Torque (Nm)	d1	d2	d3	d4	M	N	Z	L	L1	L2	L3
14	40/60	165	60	12	3-M8	12	30	0.8	170	86.5	56	177
16	60/80	190	62	12	3-M8	13.5	30	0.8	176	92.5	56	177
18	100/120/150	217	77	12	6-M8	13.5	35	1	183	100.5	56	200

REB08 End-Cap Integrated Brakes



Installation and Operating Instructions



- 1.Stator
- 2.Armature
- 3.Rotor
- 4.Compression Spring
- 5.Disc Spring
- 6.Adjusting Shim
- 7.Adjustment Shim
- 8.Locking Flange
- 9.Hexagon Socket Head Cap Screw
- 10.Spring Washer
- 11.Bearing Retaining Plate
- 12.Phillips Pan Head Screw
- 13.Flat Key
- 14.Power Supply Mounting Bracket
- 15.Power Supply Mounting Screw
- 16.Rectifier

- D1 Fan Cover Mounting Dimensions
- P. C. D. Brake Mounting Dimensions
- D Brake Mounting Step Outer Diameter
- L1 Distance from Mounting Face to Bearing Bore Bottom
- d Mounting Shaft Diameter
- D2 Bearing Model Number

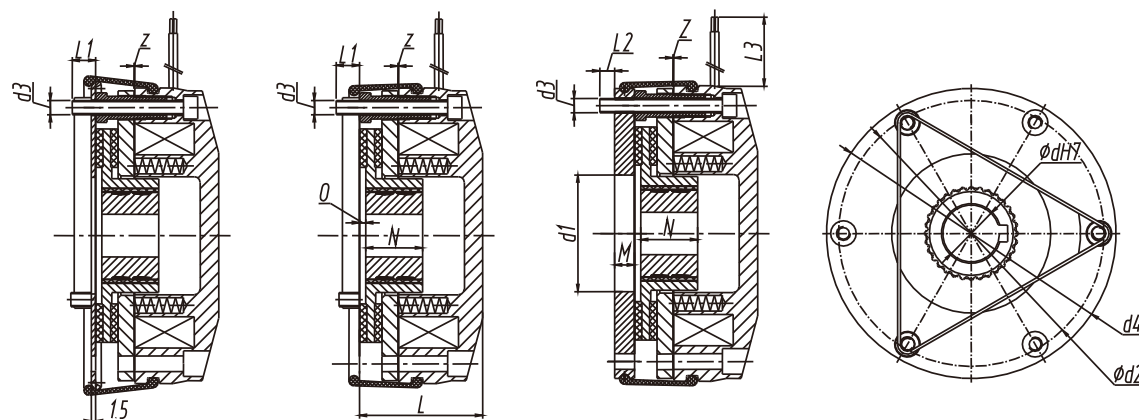
Technical Data

Power(Class 4) (kW)	Motor Frame Size	Frame Size	Rated Torque (Nm)	Engagement Time (sec)	Release Time (sec)	Clearance	
						Nominal Value (mm)	Limit Value (mm)
0.1	56	05	1	0.03	0.08	0.3	0.7
0.2	63	06	2	0.03	0.08	0.3	0.7
0.4	71	08	4	0.03	0.1	0.3	0.7
0.75	80	10	8	0.06	0.12	0.3	1
1.5	90	12	15	0.09	0.14	0.4	1
2.2	100	14	22	0.09	0.15	0.4	1
3.7	112	16	37	0.08	0.1	0.5	1.2
5.5	132	18	55	0.05	0.12	0.5	1.2
7.5	132	18	75	0.05	0.12	0.5	1.2

REB09 Forklift Brakes



Installation and Operating
Instructions

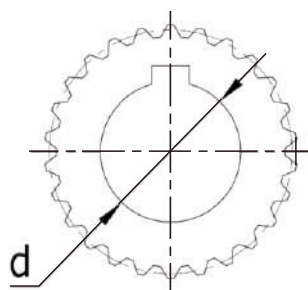


Technical Data

Unit: mm

Frame Size	T	Tmax	d	d ₁	d ₂	d ₃	d ₄	M	N	O	L	L ₁	L ₂	z	L ₃
06	4	6	11	31	72	3×M4	84	7.5	18	1	35.3	9.7	6	0.2	400
08	8	12	15	41	90	3×M5	104	8.5	20	1.5	43.5	12.2	9	0.2	400
10	16	23	15	44	112	3×M6	130	10	20	2	48.4	11.2	12	0.2	400
12	32	46	20	52	132	3×M6	150	10	25	2	54.4	11	12	0.3	400
14	60	95	25	60	145	3×M8	165	13	30	2	66.3	14	14	0.3	1000

Optional Mounting Dimensions for Spline Hub Bores



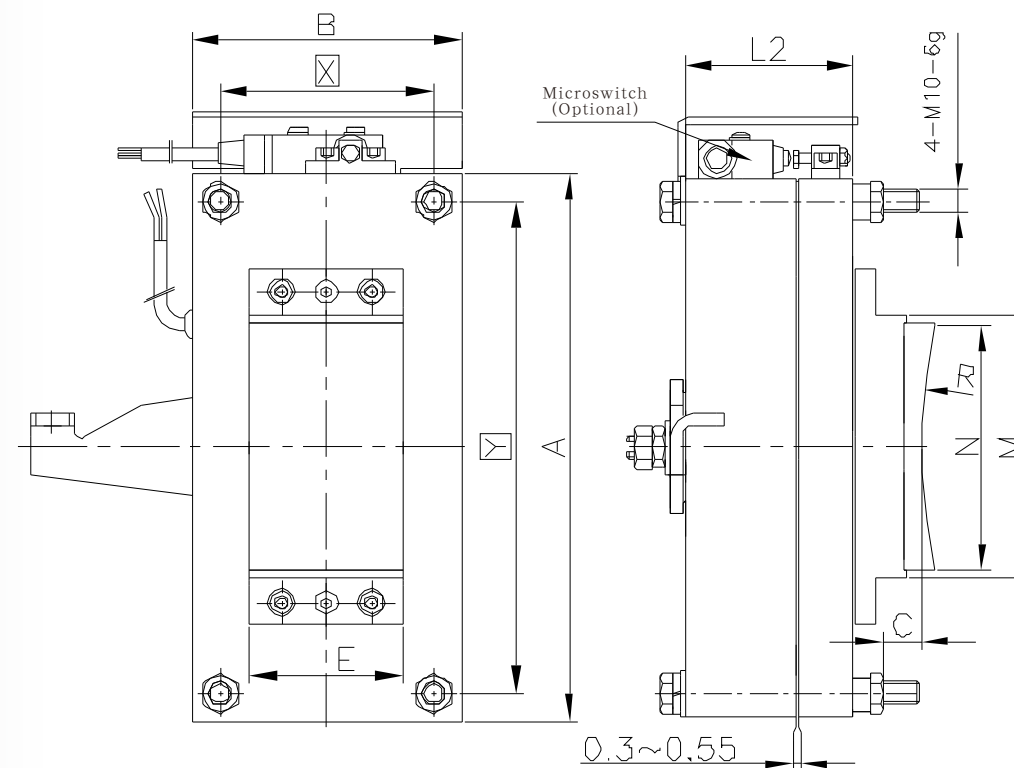
The mounting bore tolerance is H7, and the keyway dimensions conform to DIN 6885/1(GB/T1095-79)JS9. Bore diameters show in bold are standard sizes.

Frame Size	d
06	11 /12/14/15
08	11/12/14/ 15 /20
10	15 /20
12	20 /25
14	20/ 25 /30

REB31 Block-Type Elevator Brakes



Installation and Operating
Instructions



Technical Data

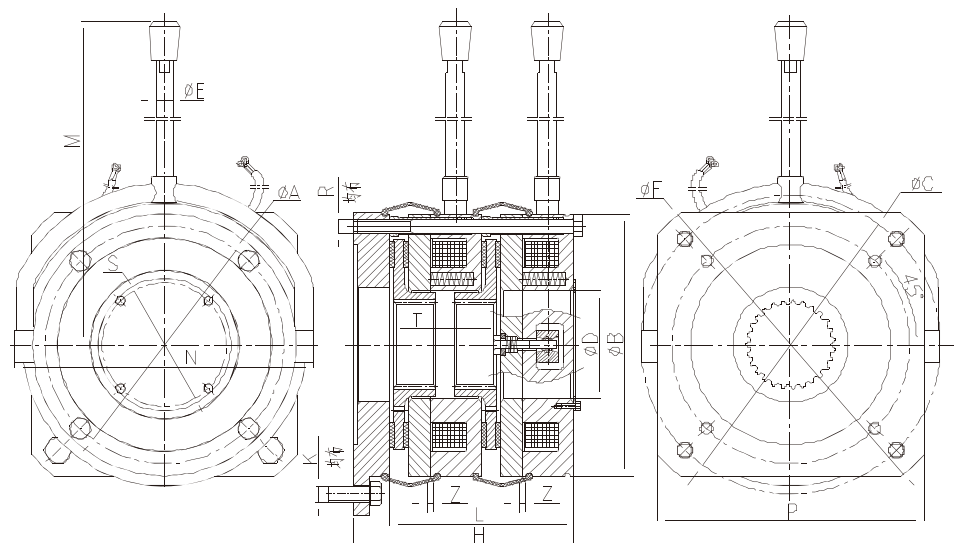
Unit: mm

Frame Size	Torque (Nm)	A	B	X	Y	E	L ₂	M	N	R	C
3101	200~300	200	110	85	175	62	68	115	108	13~190	Customer-defined
3101	600~750	245	120	95	220	68	76	118	110	180~230	Customer-defined
3101	850~1000	250	126	95	220	68	80	118	110	200~230	Customer-defined
3101	1000~1350	260	135	110	235	68	80	118	110	210~290	Customer-defined Mounting Screws 4 × 12

REB33 Overlapping Disc-Type Elevator Brakes



Installation and Operating Instructions



Technical Data

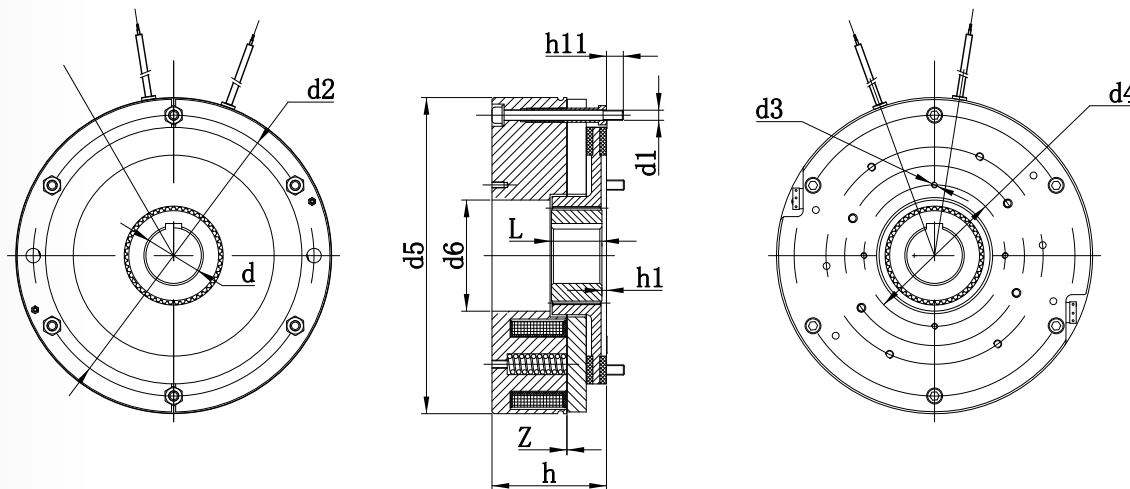
Unit: mm

Frame Size	Maximum torque(Nm)	Minimum torque(Nm)	A	B	C	D	E	F	H	L	M	N	P	S	T	Z	K	R
14	2×60	—	145	165	200	60	12	220	160	135	250	195	170	80	70	0.25 0.3	4×M10	4×M8
16	—	2×220	175	190	175	77	15	190	160	146	360	240	190	Customer-defined	85	0.25 0.35	6×M10	4×M10
18	—	2×290	190	210	190	87	15	210	170	156	360	250	210	100	90	0.25 0.35	6×M10	4×M10
20	2×800	2×500	235	260	292	104	—	324	219	193	—	—	264	120	107	0.25 0.35	4×M16	6×M12
25	2×1200	2×1000	277	302	360	135	—	410	236	201	—	—	360	150	110	0.3 0.35	4×M20	6×M12
28	2×1600	2×1200	287	312	358	140	—	394	230	203	—	—	315	150	110	0.3 0.35	4×M20	6×M12

REB34 Disc-Type Elevator Brakes



Installation and Operating Instructions



Technical Data

Unit: mm

Frame Size	Torque (Nm)	Maximum operating speed (r/min)	Mounting hole diameter d	Rated voltage(V)	Holding power(W)	Over-excitation power(W)
16	2×215	1000	30/35/40	48	80	/
18	2×225	3000	35/40/45	205/103	2×51	2×204
20	2×280	3700	35/40/45/50	205/103	2×51	2×204
22	2×300	3000	35/40/45/50	205/104	2×66	2×264
25	2×610	3000	40/45/50/55/60/65	205/103	2×66	2×264

Unit: mm

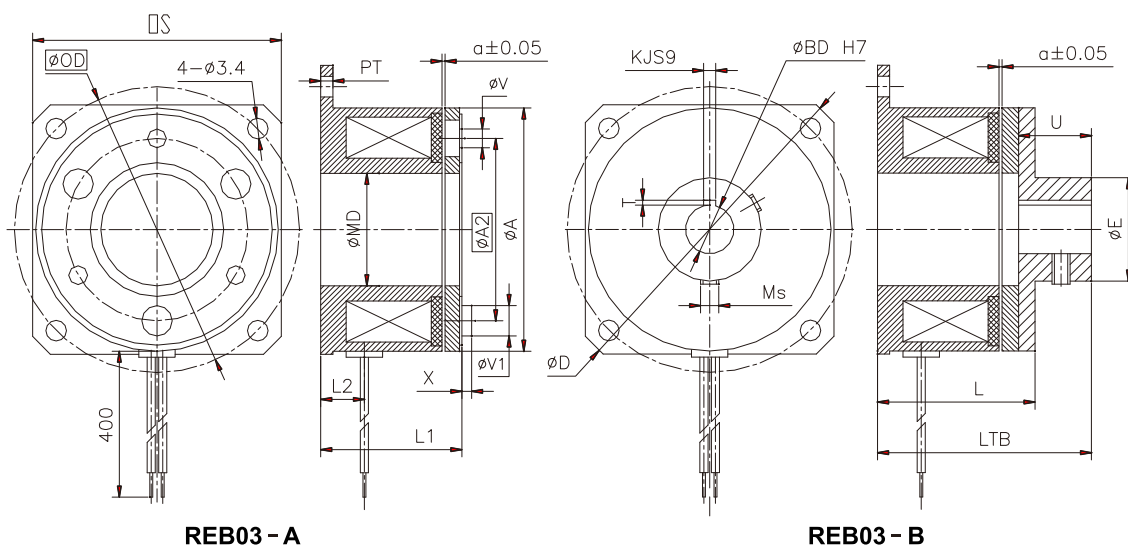
Frame Size	d1	d2	d3	d4	d5	d6 ^{H8}	h	h11	L	z
16	4×M8	170	/	/	190	65	78.3	11.4	30	0.3
18	6×M8	196	4×M6	110	235	66	82.5	15.5	40	0.3
20	6×M10	230	4×M6	110	260	85	80	15.5	40	0.3
22	6×M8	229	4×M6	110	260	66	84	12.8	40	0.3
25	6×M10	278	4×M6	140	315	115	94.5	17	50	0.3

► Power-on Brakes

REB03 Power-on Brakes



Installation and Operating
Instructions



REB03-A: Direct mounting type; REB03-B: Shaft mounting type

Technical Data

Frame Size	Torque (N·m)	Excitation Voltage V	Power (W)	Max. Rotational Speed (r/min)	Weight kg
01	0.3	24	5	10000	0.05
02	0.5	24	5	10000	0.06
03	0.8	24	6	10000	0.08
04	1.5	24	8	10000	0.14
05	3	24	10	10000	0.22

Unit: mm

Frame Size	A	BD	D	E	S	K	T	L	L1	L2	V	V1	X	LTB	U	A2	MD	Ms	a	PT	OD
01	25	5	35	13	—	—	—	16	14	5	2-2.1	2-4	0.8	20.3	7	18	10	M2.5	0.1	1.5	30
02	28	5	39	9.5	29	—	—	18.1	16.1	5	2-2.6	2-4	0.8	23.1	7	19.5	11	M3	0.1	1.5	33.5
03	32	6	45	12	33	2	1	21.3	19.3	6.7	3-2.6	3-4.5	1.2	29.3	10	23	13	2-M3	0.15	2	38
04	40	8	54	17	41	2	1	25.5	22.8	7	3-3.1	3-5	1.6	34.8	12	30	19	2-M3	0.15	2	47
05	50	10	65	24	51	3	1.4	28.2	25.2	8	3-3.1	3-5.5	1.6	37.2	12	38	26	2-M4	0.2	2	58

Technical Data

Frame Size	Torque (N·m)	Excitation Voltage V	Power (W)	Max. Rotational Speed (r/min)	Weight kg
06	6	24	11	8000	0.3
08	12	24	15	6000	0.6
10	24	24	20	5000	1
12	45	24	25	4000	1.8
16	90	24	35	3000	3.2
18	200	195	100	3000	5
20	180	24	45	2500	6
25	360	24	60	2000	11

Unit: mm

Frame Size	A	BD	D	E	H	K	T	L	L1	L2	L3	L4	LTB	d	MD	Ms	PT	OD
06	63	12	80	26	18	4	1.6	25.5	6	7.3	15	3.5	37	5	35	M4	2.1	72
08	80	15	100	31	20	5	2.2	28.4	8	8.3	20	4.3	45	6	42	M5	2.6	90
10	100	20	125	41	22	6	2.6	33	10	9	25	5	53	7	52	M5	3.1	112
12	125	25	150	49	24	8	3.2	37	12	9.3	30	5.5	61	7	62	M6	3.6	137
16	160	30	190	65	26	8	3.2	42	15	11.7	38	6	73	9.5	80	M8	4.1	175
18	217	45	217	80	30	14	3.8	56	12.5	16.5	35	—	81	8.5	100	M6	—	196
20	200	40	230	83	30	12	3.7	50.5	18	13.4	45	7	86.5	9.5	100	M8	5.1	215
25	250	50	290	105	35	14	3.8	59	22	16	54	8	102	11.5	125	M10	6.1	270

Rectifiers

- Plastic housing with compact design
- Optional AC/DC side switching
- Optional wiring method allows quick installation
- Maximum ambient temperature: 70°C

Model Selection

- Brake operating power is DC supply, if an external AC supply is used, the following rectifier specifications can be selected

	R	K	ZL	1	4	1	□	□
R -REACH								
K -Over-excitation(only for some specifications)								
ZL -Rectifier(product specifications)								
1 -Input Voltage: 0~270VAC								
2 -Input Voltage: 0~460VAC								
4 -4 wiring terminals (input, output)								
6 -6wiring terminals(input, output and switching control)								
1 -Vertically Mounted								
2 -Horizontally Mounted								
5 -Mounted with Leads								
1 -Output 340V DC within 0.5~1.5s (adjustable) and 170VDC after 1.5S input 380VAC								
170 -Output 170~203V DC								
0.3S -0.3S of over-excitation time (input 380V AC)								
0.6S -0.6S of over-excitation time (input 380V AC)								

Input Voltage (AC)	Type	4-Wire Rectifier Model	6-Wire Rectifier Model	Coil Voltage (DC)
110V	Full-Wave	RZL141-170	RZL162-170	103V
220V/230V/240V	Full-Wave	RZL141-170	RZL162-170	205V
	Half-Wave	RZL241-170	RZL262-170/H	103V
	Half-Wave Fast Braking	RZLT145-96	RZL262-170K	103V
	Fast Engagement		RKZL262-0.6S	
	High Current, Fast Engagement, Fully Sealed		RKZL-1	
255V	Full-Wave	RZL141-170H	RZL162-170	225V
277V/290V	Half-Wave	RZL241-170	RZL262-170/H	127V
380V/400V/415V 420V/440V/460V 480V/500V/555V	Half-Wave	RZL241-170	RZL262-170/H/K	170V/180V 190V/205V
	Fast Engagement		RZL262-0.6S	
	Fast Braking		RZL262-170K	
	High Current, Fast Engagement, Fully Sealed		RKZL-1	

Performance and Installation Dimension Drawing

4-Wire Half-Wave or Full-Wave Rectifiers

No.	Product Model	Product Characteristics	Features		Applicable Industries
1	RZL141-170	Max. input 270VAC, Full-wave	Small size, quick and convenient wiring.	Color: Orange	Industries with no special requirements for braking time.
3	RZL241-170	Max. input 555VAC, Half-wave		Color: Black	

4-Wire Half-Wave Rectifiers



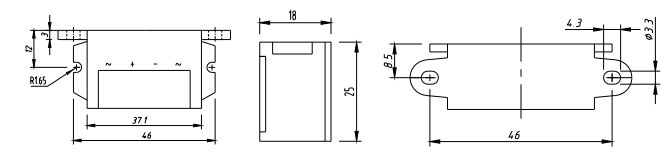
RZL241-170

4-Wire Full-Wave Rectifiers

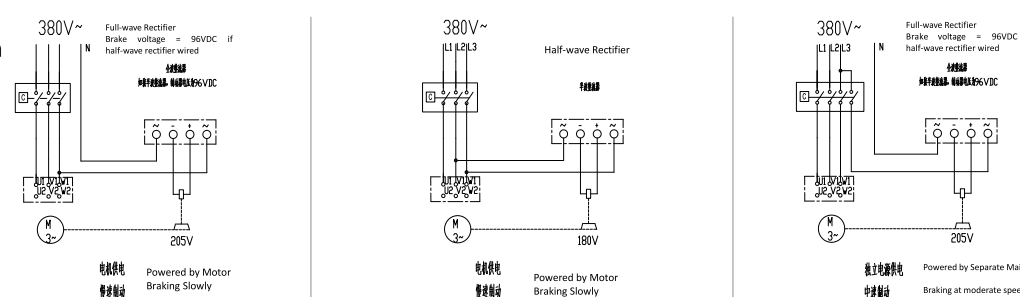


RZL141-170

Installation Dimension Drawing



Wiring Diagram



6-Wire Half-Wave or Full-Wave Rectifiers

No.	Product Model	Product Characteristics	Features		Applicable Industries
1	RZL162-170	Max. input 270VAC, Full-wave, 1A	Fast braking can be achieved via a DC-side switching wiring method.	Orange	Industries with requirements for fast braking times.
2	RZL262-170	Max. input 460VAC, Half-wave, 2A		Black	
3	RZL262-170H	Max. input 575VAC, Half-wave, 5A		Black	Industries with frequent starts

6-Wire Half-Wave Rectifiers



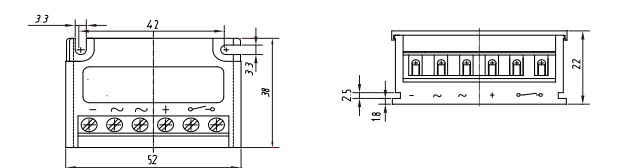
RZL262-170

6-Wire Full-Wave Rectifiers

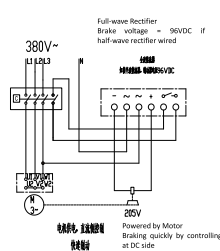
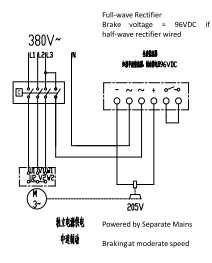
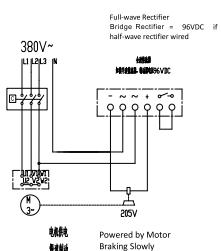


RZL162-170

Installation Dimension Drawing



Wiring Diagram



Note: For the wiring of the 6-wire half-wave rectifier with a 380VAC input, please refer to the "Fast Engagement Rectifier Wiring Diagram".

Fast Engagement Rectifiers

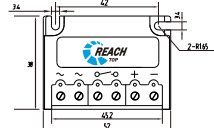
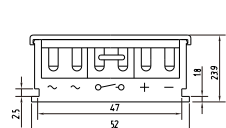
No.	Product Model	Product Characteristics	Features	Applicable Industries
1	RKZL262-0.6S	Fast engagement rectifier with a maximum input of 575VAC.	Shortens the brake engagement time; fast response can be achieved via a DC-side switching wiring method.	For applications that need to prevent motor stalls or require short brake release times.

Fast Engagement Rectifiers

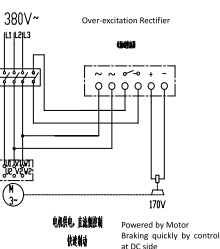
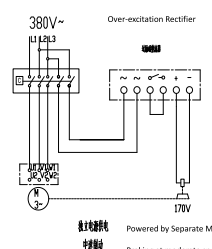
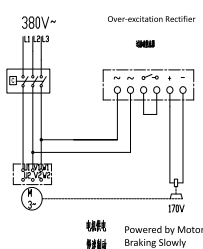


RKZL262-0.6S

Installation Dimension Drawing



Wiring Diagram



Fast Braking Rectifiers

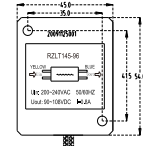
No.	Product Model	Product Characteristics	Features	Applicable Industries
1	RZLT145-96	Input Voltage: 270VAC(max)50/60Hz	Compact and small; the unique circuit design meets the demand for fast braking without requiring an external control circuit.	Industries with requirements for fast braking times.
2	RZL262-170K	Input Voltage: 555VAC(max)50/60Hz		

Fast Braking Rectifiers



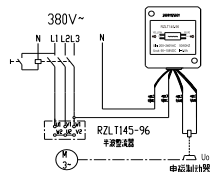
RZLT145-96

Installation Dimension Drawing



RZLT145-96

Wiring Diagram



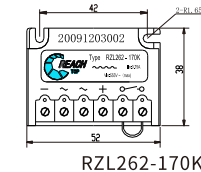
RZLT145-96

Fast Braking Rectifiers



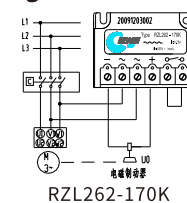
RZL262-170K

Installation Dimension Drawing



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Wiring Diagram



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► Microswitch

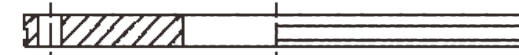
- Microswitches are used in applications requiring air gap monitoring. They offer two control logics and have a lifespan of over one million cycles.
- When the armature is engaged by the stator, the brake is released and the microswitch detects the engagement, allowing the motor to start. If the air gap exceeds its limit, the microswitch will not detect the armature engagement, thus preventing the motor from starting.



► Accessory Description

Flange

- If a suitable friction surface is not available on the mounting body, an optional Flange can be used. The Flange features a special surface treatment for high corrosion and wear resistance.



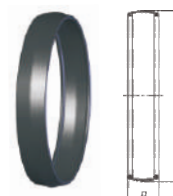
Friction Plate

- If the mounting body has a flat surface but the material is unsuitable to act as a friction surface (e.g., an aluminum alloy motor casing), an optional friction plate can be used. As shown, it is for products with frame size 16 or smaller.



Cover Ring

- The Cover Ring effectively prevents external dust, water droplets, moisture, dirt, and other foreign matter from entering the brake's interior. When used, it should be paired with a stator and Flange that have an annular groove, which is used to mount the cover onto the brake.



Hand-release with standard lever

- The Hand-release with standard lever is used to manually release the brake during installation and commissioning, or in case of a fault. It provides convenient disengagement: after being used, the handle automatically returns to its original position, and the brake resumes its engaged (braking) state.

