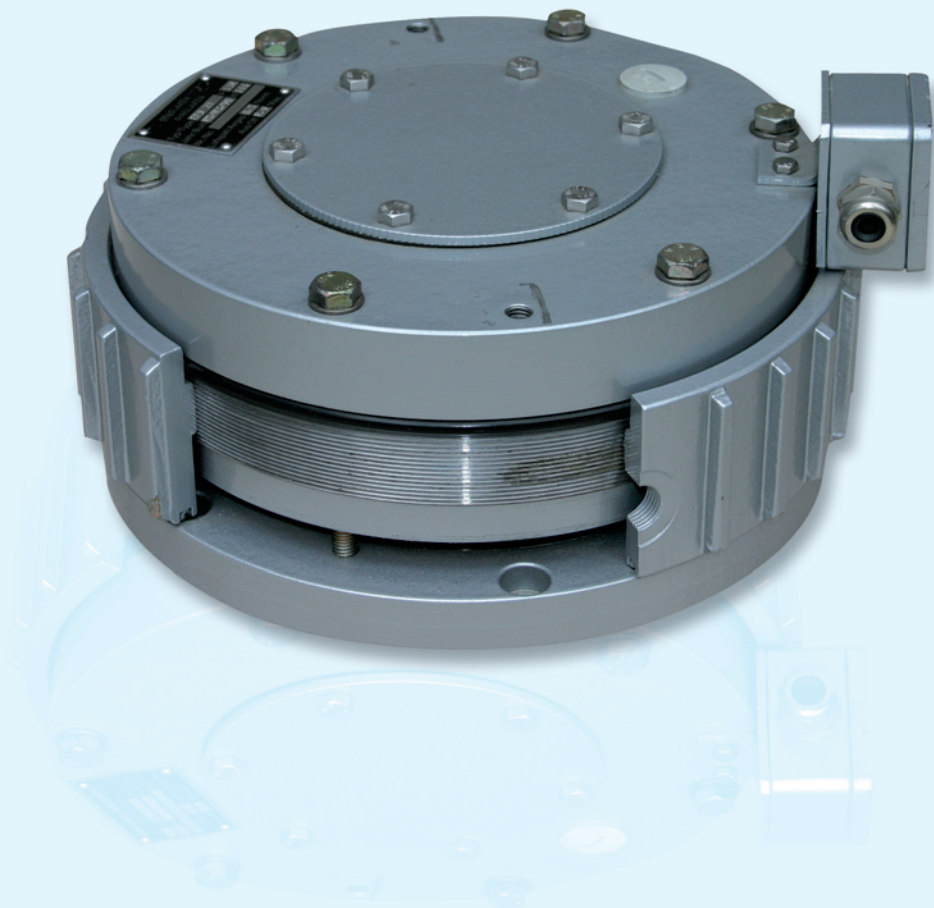


Spring-Set Brakes EFB Series



C

PINTSCH BUBENZER
is certified according to
DIN EN ISO 9001:2000



Reliable



High Performance



Robust



Easy Maintenance



Compact



Tried and Trusted

Main Features

spring applied safety brake
electromagnetic lifting
protection-class IP54
high wear reserve by air gap adjustment
small construction at high work capacity
high wear resistance because of high abrasion resistance
manual lifting

Options

IEC standard flange
special flange
pinion
handlever
special brake torque
lateral cable outlet
tacho preparation with all mounting parts
cover bore
special voltage
special electrical equipment:
one-way-, bridge-, and switching- rectifier
overvoltage protection element

Applications

dynamic and static use in general industrial application for example:
textile- machinery
tool- machinery
conveyor- drives
overhead industrial crane



Please Note

We supply a detailed operating manual with every order. Nevertheless, we would point out that brakes are only as safe as the servicing and maintenance performed while they are in operation. The guarantee for the correct functioning of our brakes is therefore only valid if the user adheres to the German DIN standard 15434 part 2 (drum and disc brakes, servicing and maintenance in operation), or to comparable standards in his own country.



PINTSCH BUBENZER Service

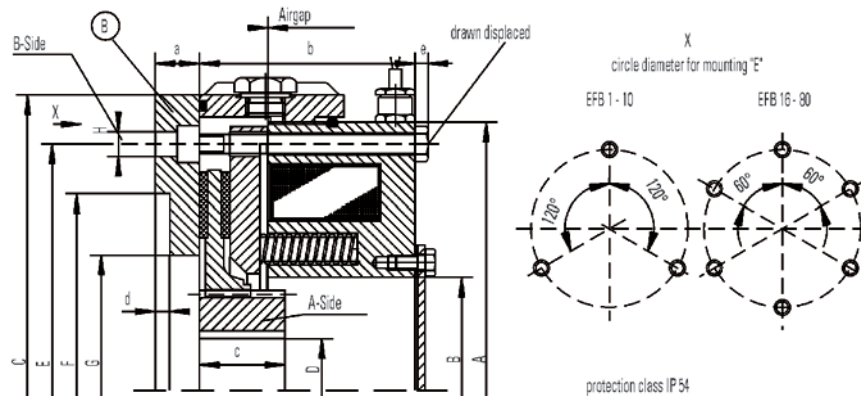
This includes the verification of the brake selection, if required. A detailed questionnaire is provided for this purpose. Installation and commissioning on site is possible by PINTSCH BUBENZER service engineers. Drawings as DWG/DXF files for your engineering department are available upon request.

Spring-Set Brake EFB

Dimensions and technical data



Rev. 05-08



Ⓐ switched on DC side
operate time = release time

Ⓑ Produced drawn with smallest
possible mounting flange

Keyways for keys acc. to DIN6885 Bl.1,
width accuracy P9. Protection IP67

Produced and tested acc. to DIN 0580
Alterations reserved without notice

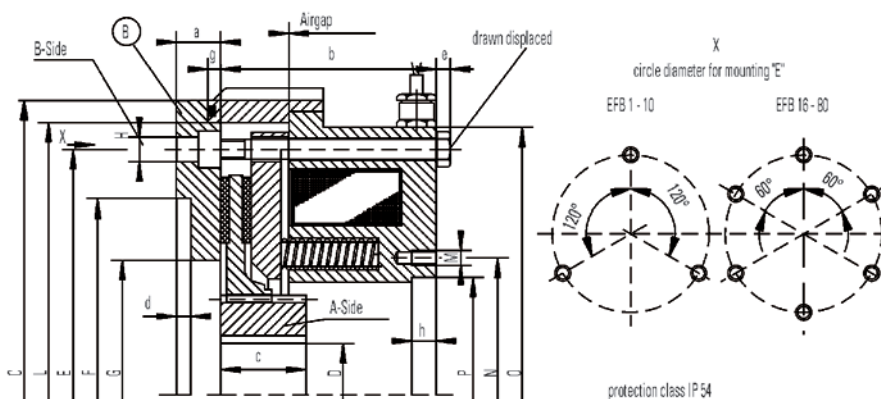
Brake size			EFB 1	EFB 2.5	EFB 5	EFB 10	EFB 16	EFB 25	EFB 40	EFB 63	EFB 80
Brake torque Nm			10	25	50	100	160	250	400	630	800
Moment of inertia kgcm ²			0.82	2.32	4.76	12	22	30	52	155	298
Mass (weight) kg			2.5	5.0	8.9	13.5	18.8	23.3	41.7	61.8	73.9
max. speed 17 min			6000	5500	5000	4800	4500	4300	3800	3500	3000
Coil b. 20° C	Nominal voltage V –		24	24	24	24	24	24	24	24	24
	Nominal power W		31	48	69	97	105	127	181	246	255
	Nminal current A		1.29	2.00	2.88	4.04	4.38	5.29	7.54	10.3	10.6
Airgap, OFF			norm. mm	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
			max. mm	0.5	0.6	0.7	0.8	0.9	0.9	1.2	1.5
Durchmesser mm	A-Seite	D Rough boring	8	8	8	26	26	36	36	36	36
		d ^{H7} Preferential boring									
			15	20	25	30	35	40	45	60	60
			20	25	30	35	40	45	50	70	70
		D ^{H7} maximal	20	25	30	40	45	50	60	80	70
	A		101.9	131.9	153.2	181.2	207.2	220.8	266.8	316.4	319.4
	B		38	52	62	76	82	88	110	136	128
	C		112	145	172	200	226	240	290	340	344
	E ± 0.2		90	117	134	162	184	200	240	290	280
	F H7		70	95	110	130	150	160	180	230	230
	G		45	60	70	90	100	110	120	170	160
	H		5.5	6.6	9	9	9	9	11	14	14
Lengths mm											
	a		10	12	15	15	15	19	20	22	25
	b		46	54	66	75	81	86	106	114	132
	c -0.2		20	25	30	35	40	40	50	60	60
	d		3	4	4	5	5	6	6	6	6
	e		3.5	4	5.5	5.5	5.5	5.5	7	8	8
Ⓐ	Operate time t1 ms										
	Droop time t2 ms										

Spring-Set Brake EFB-T

With tacho mounting possibility



Rev. 05-08



Ⓐ switched on DC side
operate time = release time

Ⓑ Produced drawn with smallest
possible mounting flange

Keyways for keys acc. to DIN6885 Bl.1,
width accuracy P9. Protection IP67

Produced and tested acc. to DIN 0580
Alterations reserved without notice

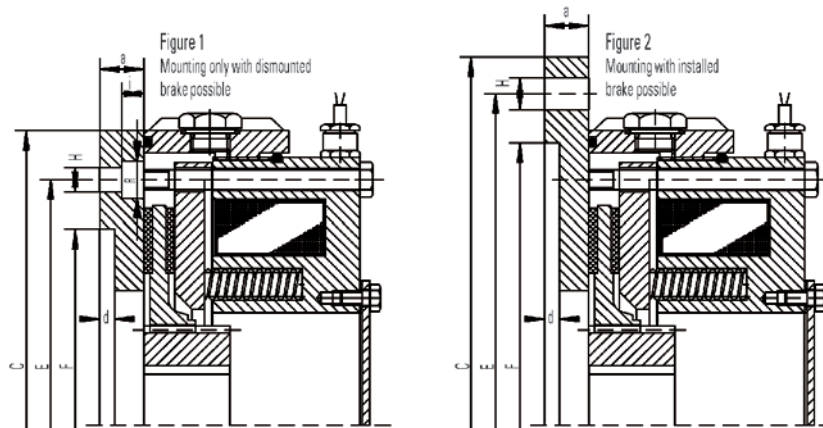
Brake size			EFB 1 T	EFB 2.5 T	EFB 5 T	EFB 10 T	EFB 16 T	EFB 25 T	EFB 40 T	EFB 63 T	EFB 80 T
Brake torque Nm			10	25	50	100	160	250	400	630	800
Moment of inertia kgcm ²			0.82	2.32	4.76	12	22	30	52	155	298
Mass (weight) kg			2.5	5.0	8.9	13.5	18.8	23.3	41.7	61.8	73.9
max. speed 17 min			6000	5500	5000	4800	4500	4300	3800	3500	3000
Coil b. 20° C	Nominal voltage V –		24	24	24	24	24	24	24	24	24
	Nominal power W		31	48	69	97	105	127	181	246	255
	Nomianl current A		1.29	2.00	2.88	4.04	4.38	5.29	7.54	10.3	10.6
Airgap, OFF			norm. mm	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
			max. mm	0.5	0.6	0.7	0.8	0.9	0.9	1.2	1.5
Diameter mm	A-Seite	D Rough boring	8	8	8	26	26	36	36	36	36
		d ^{H7} Preferential boring									
			15	20	25	30	35	40	45	60	60
		20	25	30	35	40	45	50	70	70	
	D ^{H7} maximal		20	25	30	40	45	50	60	80	70
	C		112	145	172	200	226	240	290	340	344
	E ± 0.2		90	117	134	162	184	200	240	290	280
	F H7		70	95	110	130	150	160	180	230	230
	G		45	60	70	90	100	110	120	170	160
	H		5.5	6.6	9	9	9	9	11	14	14
	L H7 / f7		102	133	154	182	208	222	270	320	322
	M		4xM5	4xM5	4xM6	6xM6	6xM6	6xM6	6xM8	6xM10	6xM10
	N		50	65	76	92	100	110	130	160	150
	O		100	130	150	178	204	218	266	316	316
Lengths mm	P H7		40	55	65	80	86	92	114	140	132
	a		10	12	15	15	15	19	20	22	25
	b		46	54	66	75	81	86	106	114	132
	c -0.2		20	25	30	35	40	40	50	60	60
	d		3	4	4	5	5	6	6	6	6
	e		3.5	4	5.5	5.5	5.5	5.5	7	8	8
	g		3	3	4	4	5	5	5	5	5
	h		5	5	7	10	10	10	12	15	15
Ⓐ	Operate time t1 ms										
	Droo time t2 ms										

Spring-Set Brake EFB

Electromagnetic Two-Disc Spring-Set Brake
Intermediate flanges



Rev. 05-08



Standard flange = intermediate flange at
standard flange acc. to DIN 42948 form A

Alterations reserved without notice

Brake size		EFB 1	EFB 2.5	EFB 5	EFB 10	EFB 16	EFB 25	EFB 40	EFB 63	EFB 80
Standard flange Figure 1		A120 A140 A160	A160 A200	A200	A200 A250	A250	A250 A300	A300 A350	A350 A400	A350 A400
Standard flange Figure 2		A200-1 ↓	A250-1 ↓	A250-1 ↓	A300-1 ↓	A300-1 ↓	A350-1 ↓	A400-1 ↓	A450-1 ↓	A450-1 ↓
Size of standard flange figure 1		Dimensions of standard intermediate flanges								
Diameter mm	C	A120	A140	A160	A200	A250	A300	A350	A400	
	E	120	140	160	200	250	300	350	400	
	F H7	100	115	130	165	215	265	300	350	
	H	80	95	110	130	180	230	250	300	
	R	4 x ø6.6	4 x ø9	4 x ø9	4 x ø11	4 x ø14	4 x ø14	4 x ø18	4 x ø18	
Lengths mm	a	4 x ø11	4 x ø15	4 x ø15	4 x ø18	4 x ø20	4 x ø20	4 x ø26	4 x ø26	
	d	15	20	20	20	25	25	30	30	
	i	5	5	5	5	6	6	7	7	
Size of standard flange figure 2		Dimensions of standard intermediate flanges								
Diameter mm	C	A200-1	A250-1	A300-1	A350-1	A400-1	A450-1	A550-1	A660-1	
	E	200	250	300	350	400	450	550	660	
	F H7	165	215	265	300	350	400	500	600	
	H	130	180	230	250	300	350	450	550	
	R	4 x ø11	4 x ø14	4 x ø14	4 x ø18	4 x ø18	8 x ø18	8 x ø18	8 x ø22	
Lengths mm	a	—	—	—	—	—	—	—	—	
	d	20	25	25	30	30	30	30	30	
	i	5	6	6	7	7	7	7	7	