



MOTOR MOUNTED BRAKES BRAKING UNLIMITED

Made in Germany

Motor mounted Brakes

PINTSCH BUBENZER

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Spring Set Brakes SFB Series





Description SFB Series



Main Features

Spring applied safety brake
Electromechanically released
Protection-class IP67
Double wear reserve by single air gap adjustment
High work capacity
High wear resistance because of high abrasion resistance
Functional without cover
Emergency release screws

Applications

Gantry, trolley	and hoisting	applications
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Electrical drives for ship winches and deck machinery

Jack up systems at offshore systems

Dynamic and static use at general industrial applications

Certificates

ABS, DNV, LR, GL, RMROS, BV

Options

Special brake torque:		
Lower brake torque Higher brake torque	= =	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Holding brake torques availab	le or	n request
Micro- or proximity switches: • Monitoring the function on/o • Maximum air gap (wear-mon		ng)
Lateral junction box		
Tacho preparation with all mo	untin	ig parts
Cover bore		
Shaft sealing		
Special voltage		
Anti condensation heater		
Radial cable outlet		
Special flange		

Electrical equipment

One-way, bridge and switching rectifier					
Protective element					
Brake control unit = BCU 2001					
Brake control and monitoring system = BCMS-4					



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 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

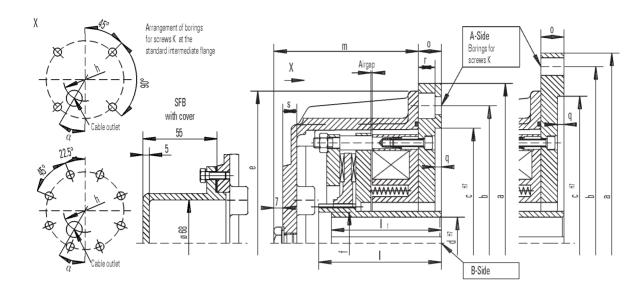
This includes the verification of the brake selection, if required. A detailed questionnaire is provided for this purpose. Installation and commissioning on-site by PINTSCH BUBENZER service engineers is possible. Drawings as DWG/DXF files for your engineering department are available upon request.

Spring Set Brake SFB

Electromagnetic Two Disc, Spring Set Brake







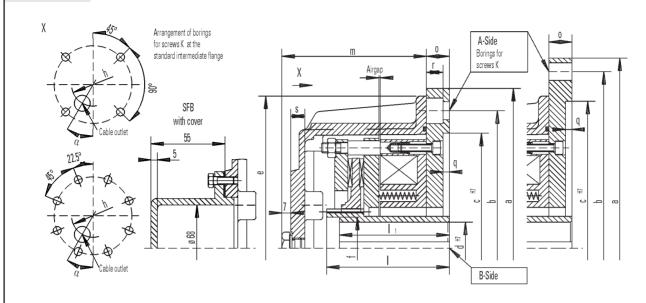
Keyways for keys acc. to DIN6885 Bl.1, width accuracy P9. Protection IP67

	,														
Brake	sizo			SFB	S	FB	SFB	SFB	S	FB	SFB	SFB	5	SFB	SFB
DIAKE	3126			6.3	1	0	16	25	4	10	63	100		160	250
Droke t	orque M2			63	1	00	160	250	4	.00	630	1000	1	600	2500
	c acc. to DIN		Nm	54		30	130	210		30	520	830	1	300	2100
-				45		63	100	180		60	400	660		050	1650
	noment of ine	ertia	kgm ²	0.0017		037	0.0048	0.0068)175	0.036	0.050		.128	0.140
Mass (v	0,		kg	19		28	42	55		74	106	168		242	306
max. sp			min ⁻¹	6000		000	6000	5500		700	4000	3600		3200	2800
Coil 20° C	Nominal v		V DC	110		10	110	110		10	110	110		110	110
20°	Nominal p		W	99		28	158	196		20	307	344		435	495
b.	Nominal c	urrent	A	0.90		16	1.44	1.78		2.0	2.79	3.13		3.95	4.50
Air gap.	, brake OFF		min. mm	0.3		.3	0.3	0.4).4	0.4	0.6		0.4	0.4
J (1)			max. mm	0.9		.2	1.2	1.3		.4	1.8	1.8		2.3	2.5
		d Ro	ugh boring	26		26	36	36		36	36	36	_	46	46
<u>ر</u>				28		28	38	38		48	60	60		65	65
Diameter mm	B-Side	d ^{H7} Pre	eferential	32 38		32 38	42	42		55 60	65 75	65	_	70	70 75
ame	-Si	boring	oring	38		38	48 55	48 55		50	/5	75		75 80	75 80
Di				_		20	55	_					90	90	
		d ^{H7} ma	iximal	40		10	55	55	-	60	75	75		110	110
		e u	ixiiiidi	238		60	280	318		00	440	446		540	556
		f		230		00	200	510		.00	95	95		128	128
		h		150	1	80	202	214	2	44	292	330		394	440
Lenght mm				96		96	117	117		42	148	148		191	191
Ler m		1				96	117	117		42	142	142		171	171
		m		115	1	18	137	143	1	69	171	183		211	232
		S		11	1	1	11	12	-	14	15	15		15	15
¥		α°		15	1	5	30	22.5		30	30	30		30	45
	•			A250	A	300	A300-1	A350	A4	00-1	A450-1	A450-		550-1	A660
	Suitable st	andard		A300	A	350	A350	A400	A4		A550	A550		660	A800
	Intermedia	te flange					A400	A450	A5	50	A660	A660	A	800	
							A450								
							Dim	ensions c	of standa	rd interm	nediale fla	nges			
	Standard i	ntermediat	te flange	A250	A300	A300-1		A400	A400-1	A450	A450-1	A550	A550-1	A660	A800
5		а		250	300	300	350	400	400	450	450	550	550	660	800
Diameter mm		b		215	265	265	300	350	350	400	400	500	500	600	740
ā		C H7		180	230	230	250	300	300	350	350	450	450	550	680
÷		0		18	18	18	20	22	22	24	24	24	24	30	30
Lenght mm		q		5	5	5	6	6	6	6	6	6	6	7	7
-		r		13		13			17.5		17.5		17.5		
	Screws	k		4xM12	4xM12	4xM12	4xM16	4xM16	4xM16	4xM12	8xM16	8xM16	8xM16	8xM20	8xM20

Spring Set Brake SFB Electromagnetic Two Disc, Spring Set Brake



Rev. 05-08



			SFB	SFB	SFB	
Brake	SIZE		400	630	1000	
Drokat	orgu o M2		4000	6300	10000	
	orque M2 c acc. to DIN		3350	5250	8500	
uynann		VDL 0300		2650	4200	7000
	noment of ine	rtia	kgm ²	0.325	0.375	1.007
Mass (\			kg	357	500	750
max. sp			min ⁻¹	2500	2200	2000
_ [_] _	Nominal v		V DC	110	110	110
Coil 20°	Nominal p		W	553	671	980
р	Nominal c	urrent	A	5.03	6.10	8.91
Air dan	, brake OFF		min. mm	0.4	0.7	0.7
gap	,		max. mm	2.5	2.8	3.1
		d Roi	ugh boring	46	58	68
				65	100	125
eter	de	d ^{H7} Pre	eferential	70		
Diameter mm	B-Side		ring	75		
Di	-		5	80		
				90		
			ximal	110	125	140
		e		660	700	795
		f		128	140	155
Ę_		h		520	570	620
-enght mm				191	237	282
_		1		171	210	255
		m		272	310	360
		S		15	15	15
≮		α°		30	30	30
	0			A660-1	A800	A800-1
	Suitable st			A800		
	intermedia	te flange				
			Dimensions of standard intermediate flange			
	Standard in	ntermediat	A660-1	A800	A800-1	
5		а		660	800	800
Diameter mm		b		600	740	740
D		C H7		550	680	680
L.		0		30	30	30
Lenght mm		q		7	7	7
		r		21.5		21.5
	Screws	k	8xM20	8xM20	8xM20	

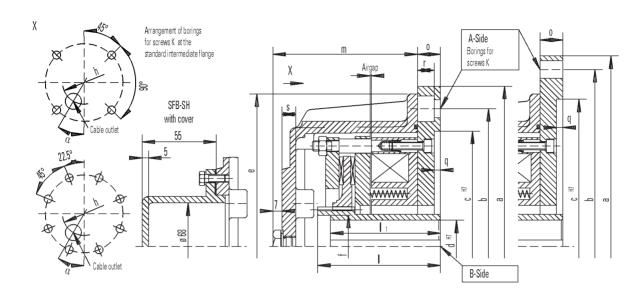
Keyways for keys acc. to DIN6885 Bl.1, width accuracy P9. Protection IP67

Spring Set Brake SFB-SH

Electromagnetic Two Disc, Spring Set Brake Increased brake torque



Rev. 05-08



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

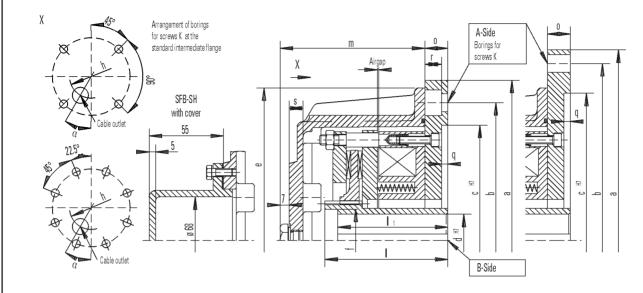
Brake	size			SFB 6.3-SI	-	FB •SH	SFB 16-SH	SFB 25-SH	-	FB -SH	SFB 63-SH	SFB 100-S		SFB 60-SH	SFB 250-SH
Proko t	orque M2			80	1	30	210	350	5	50	800	1300		2100	3300
	c acc. to DIN		Nm	75		20	190	310		90	750	1200		1900	3000
-				69		10	180	275		40	690	1100		1750	2750
	noment of ine	ertia	kgm ²	0.0017		037	0.0048	0.0068		175	0.036	0.050		0.128	0.140
Mass (v			kg	19		28	42	55		74	106	168		242	306
max. sp			min ⁻¹	6000		000	6000	5500		700	4000	3600		3200	2800
°C	Nominal v		V DC	110		10	110	110		10	110	110		110	110
Coil 20°	Nominal p		W	99		28	158	196		20	307	344		435	495
р. О	Nominal c	urrent	A	0.90		16	1.44	1.78		2.0	2.79	3.13		3.95	4.50
Air gap	, brake OFF		min. mm	0.3		.3	0.3	0.4).4	0.4	0.6	_	0.4	0.4
		d Ro	max. mm	0.9		.2	1.2 36	1.3 36		.4	1.8 36	1.8 36	_	2.3 46	2.5 46
		а по	ugh boring	20		28	30	30		18	60	60	_	40 65	40 65
5				32		32	42	42		+o 55	65	65	_	70	70
Diameter mm	B-Side	d ^{H7} Pre	eferential	38		88	42	42		50	75	75	_	75	70
m	S-B	boring	ring			00	55	40 55		0	75	75	_	80	80
Ω				-		55							90	90	
		d ^{H7} ma	iximal	40	4	0	55	55		50	75	75	_	110	110
		e		238		60	280	318		00	440	446		540	556
	f			_						95	95		128	128	
÷		h		150	1	80	202	214	2	44	292	330		394	440
Lenght mm				96		6	117	117	1	42	148	148		191	191
Le		1		96	96		117	117	1	42 142		142		171	171
		m		115	1	18	137	143	1	169 171		183		211	232
		S		11		1	11	12		14	15	15		15	15
∢		α°		15		5	30	22.5		30	30	30		30	45
				A250		300	A300-1	A350		00-1	A450-1	A450-		550-1	A660
	Suitable st			A300	A	350	A350	A400	A4		A550	A550		.660	A800
	intermedia	te flange					A400	A450	A5	50	A660	A660	A	.800	
							A450								
							Din	nensions	of standa	ard inter	mediate fl	ange			
Standard intermediate flange		A250	A300	A300-1		A400	A400-1	A450	A450-1	A550	A550-1		A800		
La La		а		250	300	300	350	400	400	450	450	550	550	660	800
Diameter mm		b		215	265	265	300	350	350	400	400	500	500	600	740
ā		C ^{H7}		180	230	230	250	300	300	350	350	450	450	550	680
Ħ		0		18	18	18	20	22	22	24	24	24	24	30	30
Lenght mm		q		5	5	5	6	6	6	6	6	6	6	7	7
_		r		13		13			17.5		17.5		17.5		
	Screws	k		4xM12	4xM12	4xM12	4xM16	4xM16	4xM16	8xM16	8xM16	8xM16	8xM16	6 8xM20) 8xM20

Spring Set Brake SFB-SH Electromagnetic Two Disc, Spring Set Brake

Increased brake torque







Brake	size		SFB 400-SH	SFB 630-SH	SFB 1000-SH	
Ducket	MO		5200	8000	13000	
	orque M2		Nm	4800	7500	
uynami	c acc. to DIN	VDE 0000		4400	6900	
Mass m	noment of ine	ertia	kgm ²	0.325	0.375	1.007
Mass (\	weight)		kg	357	500	750
max. sp			min ⁻¹	2500	2200	2000
_ U	Nominal v		V DC	110	110	110
Coil 20°	Nominal p		W	553	671	980
) b.	Nominal c	urrent	А	5.03	6.10	8.91
Δir gan	, brake OFF		min. mm	0.4	0.7	0.7
An gup	, bruke off		max. mm	2.5	2.8	3.1
		d Ro	ugh boring	46	58	68
				65	100	125
ter	e	d ^{H7} Pr	eferential	70		
Diameter mm	B-Side		ring	75		
Dia	<u>ف</u>		ing	80		
				90		
		d ^{H7} ma	aximal	110	125	140
		е		660	700	795
		f		128	140	155
<u>t</u>		h		520	570	620
Lenght mm				191	237	282
- Le		1		171	210	255
		m		272	310	360
		S		15	15	15
¥		α°		30	30	30
				A660-1	A800	A800-1
	Suitable st	andard		A800		
	intermedia	te flange				
			standar	Dimensions d intermedia	of ate flange	
	Standard in	ntermedia	A660-1	A800	A800-1	
5		а		660	800	800
Diameter mm		b		600	740	740
Dia		C H7		550	680	680
		0		30	30	30
mm		q		7	7	7
		r		21.5		21.5
	Screws	k	8xM20	8xM20	8xM20	

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

Spring Set Brake EFB-N





Description EFB-N



Main Features

Spring applied safety brake
Electromechanically released
Protection-class IP 54
Small compact design
Approved design

Applications

General industrial applications
Warehouse equipment
Automation systems
Industrial transportation equipment e.g. E-forklifter
Industrial transportation equipment e.g. E-forklifter

Options

Handlever
Micro- or proximity switch: Monitoring the function on/off Maximum air gap (wear monitoring)
Special voltage
Anti condensation heater
Shaft sealing
Tacho preparation with all mounting parts
Sealring for shaft through
Reduced brake torque available

Electrical equipment



One-way-, bridge- and switching rectifier

Protection element



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 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 by PINTSCH BUBENZER service engineers is possible. Drawings as DWG/DXF files for your engineering department are available upon request.

Spring Set Brake EFB-N Electromagnetic Two Disc, Spring Set Brake



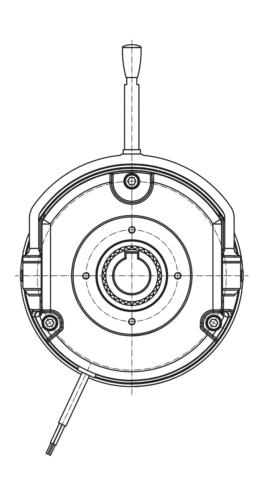
Rev. 03-14

			C			-				
Techni	ical, m	easures	ing to DIN 6885 sh and design are su	eet 1, toleran Ibject to chan	ige.				tions reserved wi	
	ake si			NI	EFB-N 1	EFB-N 2	EFB-N 3,5	EFB-N 6	EFB-N 9	EFB-N 12
		-	DIN VDE 0580	Nm	10	20	35	60	90	120
			of intertia	kg*cm²	0,15	0,61	2,0	4,5	6,3	15
		veight)		kg	0,75	1,3	2,2	3,6	5,3	8,0
ma	x. sp		valta v -	1/min	6000	5000	4000	3600	3600	3600
°	Nominal voltage V-			110 / 207	110 / 207	110 / 207	110 / 207	110 / 207	110 / 207	
Coil b.20°C	Nominal power A Nominal current W		0,24 / 0,13	0,33 / 0,17	0,27 / 0,15	0,38 / 0,20	0,51 / 0,27	0,60 / 0,31		
				W	26	36	30	42	56	65
Air	gap,	UFF	Norm. mm		0,2	0,2	0,2	0,3	0,3	0,3
	1		Max. mm		0,5	0,5	0,5	0,75	0,75	0,75
	de		ot bore		9	9	9	13	18	23
	A-Side	· ·	eferrential bore		11	15	15	20	25	30
		D max. bore H7		15	20	20	27 31		38	
шш	<u> </u>	<u>A</u>			87	105	130	150	165	190
Diameter mm	<u> </u>	B			25	32	42	50 60		68
)iam(<u> </u>	C			90	100 / 120	140	160	160	200
	E ±0,2			72	90	112	132	145	170	
	F H7		H7	60	70 / 80	95	110	110	130	
	G			31	41	45	52	55	70	
	<u> </u>	Н			3xM4	3xM5	3xM6	3xM6	3xM8	3xM8
E	<u> </u>	a			6	7	9	9	11	11
E		b			37,3	44	48,4	54,9	67,8	74,5
다	1	С		0,2	18	20	20	25	30	30
Length mm	<u> </u>					0 5 10	0	0.5	0 5	0 5
Length		d α°			2,5 25	2,5/3 25	3 25	3,5 25	3,5 25	3,5 25

Spring Set Brake EFB-N Electromagnetic Two Disc, Spring Set Brake



Rev. 03-14



Nuts for keys according to DIN 6885 sheet 1, tolerance field for the nuts width P9. Technical, measures and design are subject to change.

Size of frict	ion plate		R 90	R110	R 135	R 155	R 170	R 195	
Diameter	mm	C	86	106	132	153	169	194	
Diameter		G	36	45	52	68	78	90	
Length	mm	а	1,5	1,5	1,5	1,5	1,5	1,5	
Size of stan	idards flanges	(FF/IEC)	FF 90	ns of standard FF 100 / A 120	-	A 160	A 160	A200	
Diameter	mm	С	90	100 / 120	140	160	160	200	
		I (FF)	75	85 / 100	115	130	130	165	
		F H7	60	70 / 80	95	110	110	130	
	mm	а	6	7	9	9	11	11	
Length	mm			2,5/3	3	3,5	3,5	3,5	
Length	11111	d	2,5	2,3/3	0	-,-	-,-	-,-	

Spring Set Brake KFB





Description KFB



Main Features

Spring applied safety brake
Electromechanically released
Protection-class IP67 – seawater protected
High wear reserve by multiple air gap adjustment
Small construction at high work capacity
High availability caused by high durability
Functional without cover
Emergency release screws

Applications

Gantry, trolley and hoisting application
Dynamic and static use at general industrial applications
General engineering
Steel mills
Wind energy systems
Coal mining

Certificates

ABS, Atex

Options

Special brake torque
Handlever
Micro or proximity switch: • Monitoring the function on/off • Maximum air gap (wear-monitoring)
Lateral junction box
Tacho preparation with all mounting parts
Cover bore
Shaft sealing
Special voltage
Anti condensation heater
Radial cable outlet
Special flange

Electrical equipment

One-way, bridge and swit	tching	rectifier
Protective element		
Brake control unit	=	BCU 2001
Brake control and monitoring system	=	BCMS-4



PINTSCH BUBENZER Service

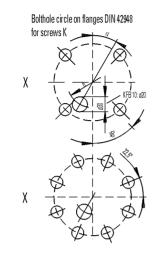
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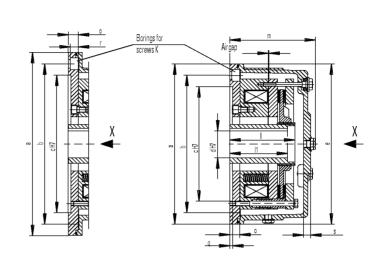
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Spring Set Brake KFB

Electromagnetic Two Disc, Spring Set Brake

Rev. 10-09





* The larger dimension belongs to the larger assigned brake.

Alterations reserved without notice.

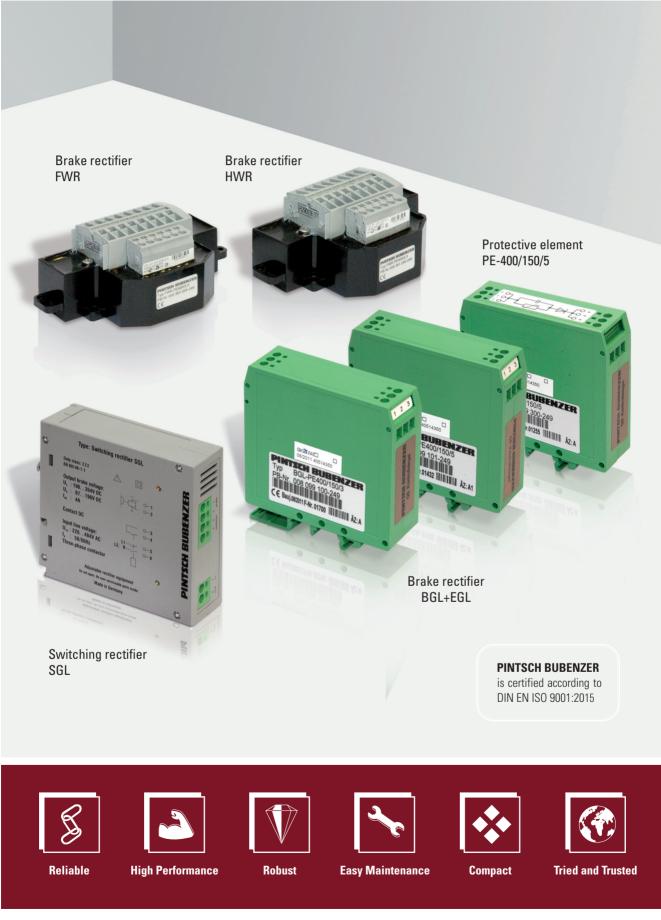
											-		
Brake	size		KFB	KF		KFB	KFB	KF		KFB	KFB	KFB	KFB
			5	1	0	16	25	3	0	40	63	100	160
Brake torque M2 dynamic acc. to DIN VDE 0580 Nm			50	10	00	160	250	30	00	400	630	1000	1600
Mass m	oment of int	ertia kgm ²	0.0010	0.00	017	0.0037	0.0048	0.0	055	0.0068	0.0175	0.036	0.050
Mass (v	veight)	kg	13	1		28	42	5	0	55	74	106	168
max. sp		min ⁻¹	6000	60		6000	6000	60		5500	4700	4000	3600
I C	Nominal v		110	11	-	110	110	11	-	110	110	110	110
Coil 20°	Nominal p		79	9		128	158	13		196	220	307	344
b.	Nominal c		0.72	0.8		1.16	1.44	1.		1.78	2.0	2.79	3.13
Air gap,	OFF	norm. mm	0.3	0.		0.3	0.3	0.		0.3	0.4	0.4	0.4
7 g p		max. mm	0.8	1.	-	1.0	1.2	0.	-	1.2	1.3	1.6	1.8
		d pilot bore	8	2		26	36	2		36	36	36	36
	0	d ^{H7} preferrential bore	15	2		28	38	3		38	48	60	60
Diameter mm	Side		20	3		32	42	3		42	55	65	65
amet mm	B-Side		25	3	8	38	48	4		48	60	75	75
Di				_			55	4	5	55			
			ļ	_				_					
			4.00/000		050	050/000	000/050	050	(0.0.0	000/050	050/400	400/450	450/550
		e	160/200	200/	250	253/303	300/350	250/	300	303/350	350/400	400/450	450/550
		f	93	10	00	144	194	14	14	194	214	264	314
Lenght mm		h I	93	11		96	194	13		194	142	148	155
m		1	110	11		96	117	13		117	142	140	135
		m	145	15		141	165	17		175	142	196	218
		S	143	1		15	103	1		15	15	15	17
∢		α°	22.5	3		30	30	67		30	30	30	30
~		ŭ	A160	A2		A250	A300	A2		A300	A350	A400	A450
			A200	A2		A300	A350	A3		A350	A400	A450	A550
	Suitable st	andards flanges	1.200			1000	1.000			1000			
					Dimer	nsions of s	standards	flanges					
	Size of sta	ndards flanges	A160	A200	A250	A300	A350	A400	A450	A550	1		
- er		а	160	200	250	300	350	400	450	550			
Diameter mm		b	130	165	215	265	300	350	400	500			
ö		C ^{H7}	110	130	180	230	250	300	350	450			
÷		0	18	18	18/20*	20/22*	22	22/24*	24/29*	24/29*			
Lenght mm		q	5	5	5	5	6	6	6	6			
-		r	11	11	13	13	17.5	17.5	17.5	17.5			
	Screws	k	4xM8	4xM10	4xM12	4xM12	4xM16	4xM16	8xM16	8xM16			

Notes



Accessories





Description Accessories



Main Features

EMC compatibility
Top-hat rail mounted
Combinable with Brake Control Unit BCU2001
Integrated protective element
Integrated spark quench element

Specific Features for the rectifiers BGL and EGL

Prepared for switching AC and DC circuits simultaneously

Installation in cabinet

Specific Features for the protective element PE 400/150/5



To be connected parallel to the output of the rectifiers BGL, EGL and SGL to increase the interruption capacity

Specific Features for the rectifiers FWR and HWR

Prepared for switching AC and DC circuits simultaneously

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

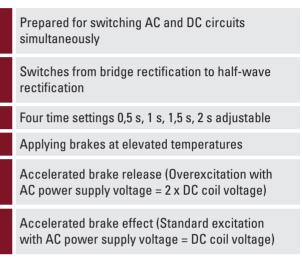
the correct functioning of our brakes is only valid if the user adheres to the German DIN standard 15434 part 2 (drum and disc brakes, servicing

and maintenance in operation), or to comparable standards in his own

Installation in junction box

Please Note

Specific Features of the switching rectifier SGL





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

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country.

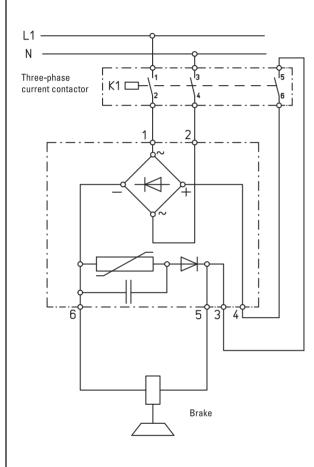
BGL-PE400/150/3 - EGL-PE400/150/5

Principal circuit diagram

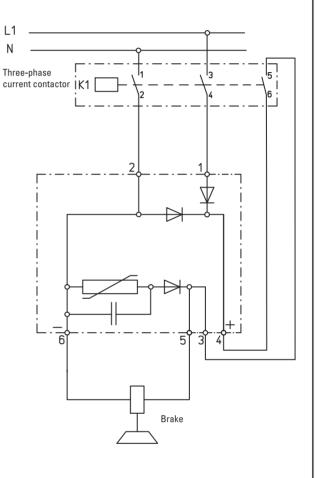


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Bridge rectification with module BGL



Half-wave rectification with module EGL



Technical data

Brake rectifier BGL-PE400/150/3	
AC line voltage:	AC 460V; 50/60 Hz
Permissible rated coil voltages:	DC 24V390V
Maximum brake current:	2,5A
Maximum continuous output of the internal protective circuit:	3W
Disconnection peak at maximum coil current:	≤450V
Ambient temperature:	-40° C +50° C
Protection class:	IP 20

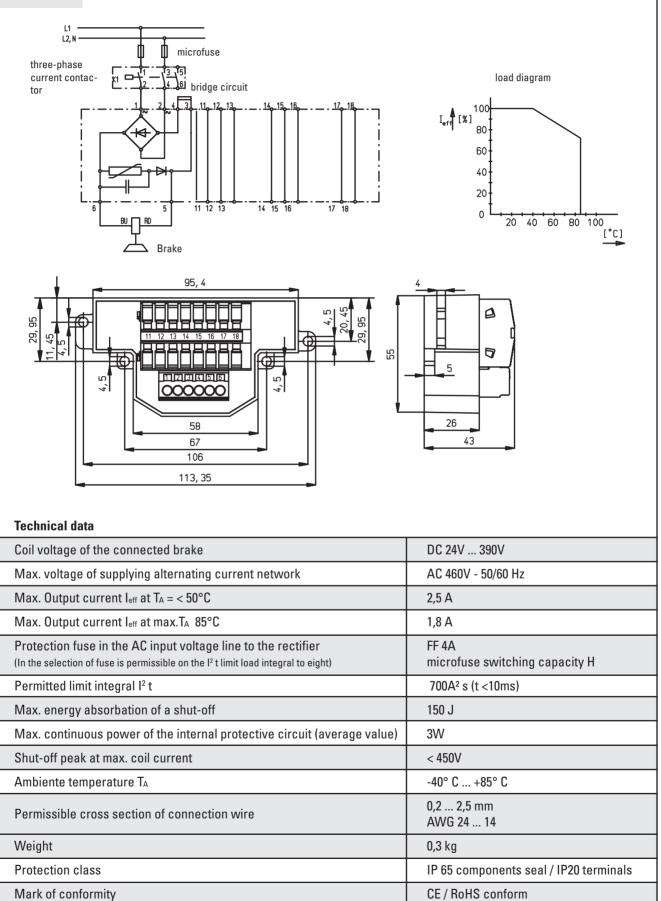
Brake rectifier EGL-PE400/150/5AC line voltage:AC 460V; 50/60 HzPermissible rated coil
voltages:DC 24V...220VMaximum brake current:5AMaximum continuous
output of the internal
protective circuit:5W

Full wave rectifier FWR-PE400/150/3

Principal circuit diagram



Rev. 10-10

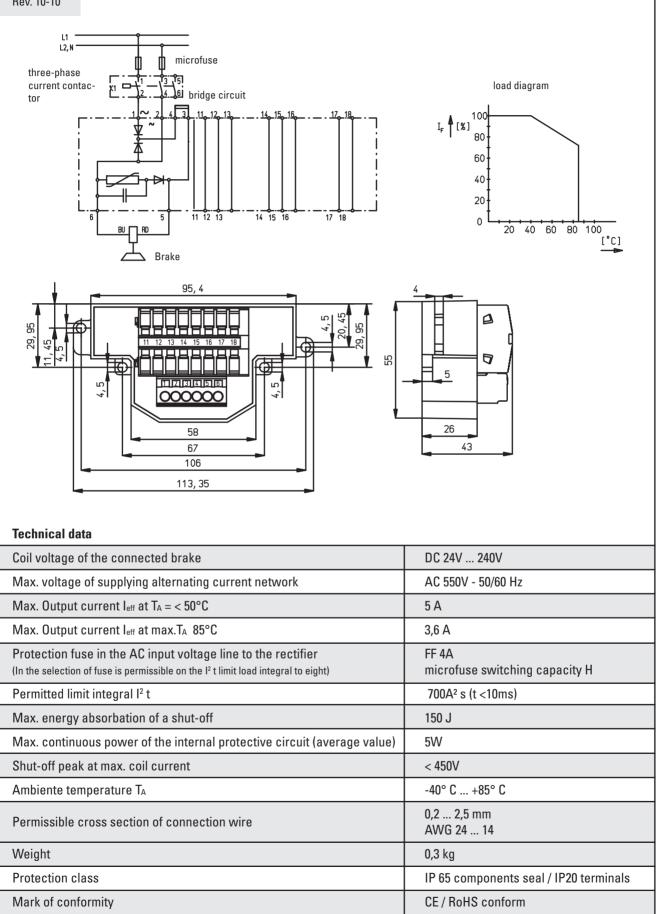


Half wave rectifier HWR-PE400/150/5

Principal circuit diagram



Rev. 10-10

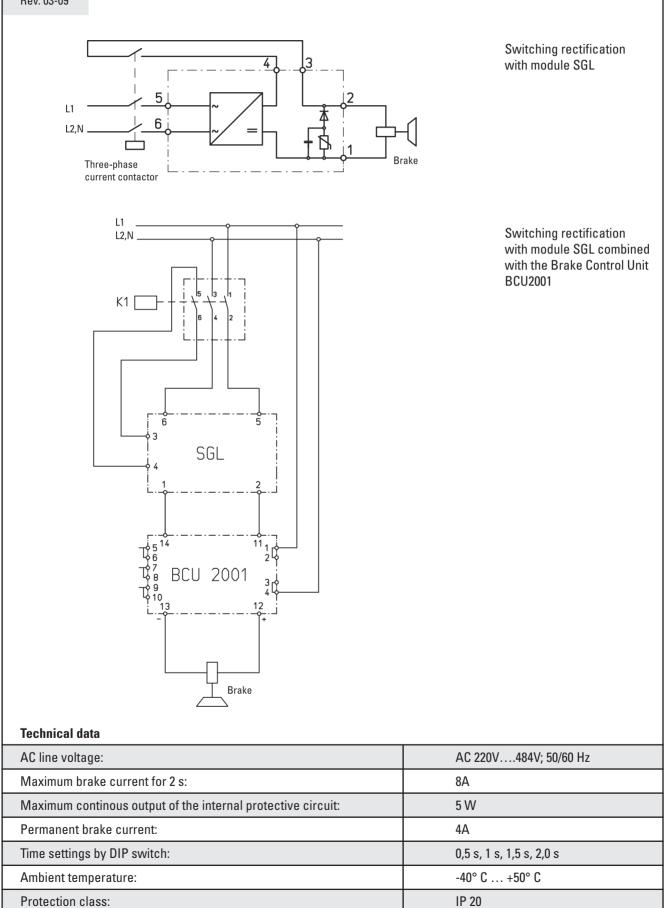


Switching rectifier SGL

Principal circuit diagram



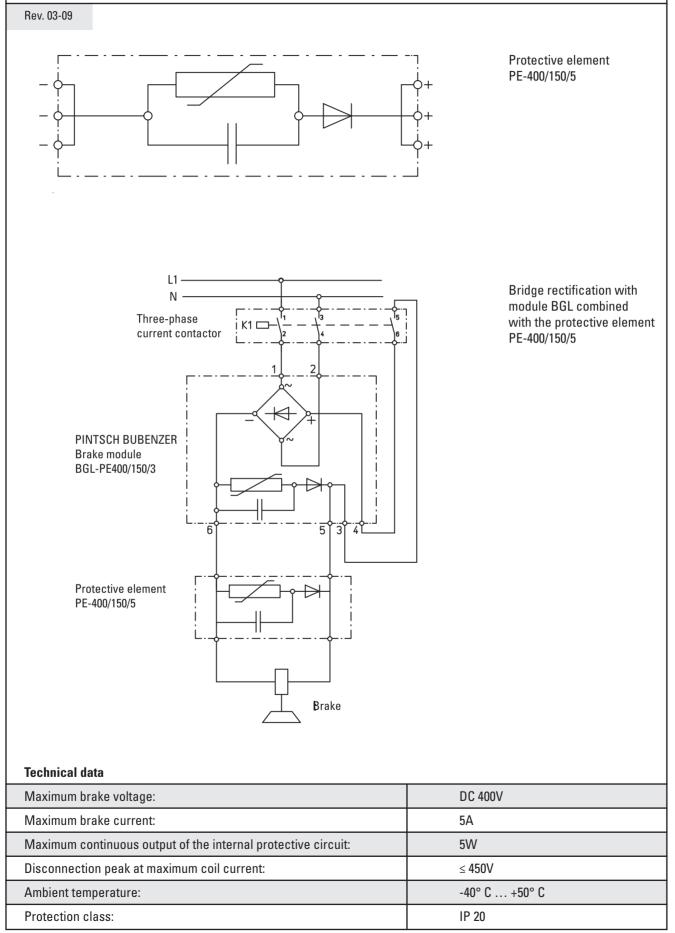
Rev. 03-09



Protective element PE-400/150/5

Principal circuit diagram





Notes



Brake Control Unit BCU2001





Description Brake Control Unit BCU2001



Main Features

EMC compatibility
Maximum air gap (wear) indication by LED
Maximum air gap indication by relay contact
Function on/off indication by LED
Function on/off indication by relay contact
No sensors on the brake
No sensor wiring to the brake
Perfect retrofit equipment
Directly connectable with PLC systems
AC and DC auxiliary power supplies applicable
Top-hat rail mounted

Applications

Container cranes
Ship winches
Automatic racking systems
Conveyor belts
General electrical drives

Options



Combinable with the switching rectifier SGL in overexcitation mode

Combinable with bridge rectifier BGL-PE400/150/3

Combinable with half-wave rectifier EGL-PE400/150/3

Method

The Brake Control Unit BCU 2001 records characteristic current and voltage variations, which are induced by movements of the armature disk in the magnetic field of the brake coil. In an interference free and reliable manner it evaluates the signal levels in terms of the control state (applied or released) and the maximum air gap (maximum wear)

Important requirements



AC and DC circuit to be switched simultaneously

AC circuit may not be switched alone



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 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.



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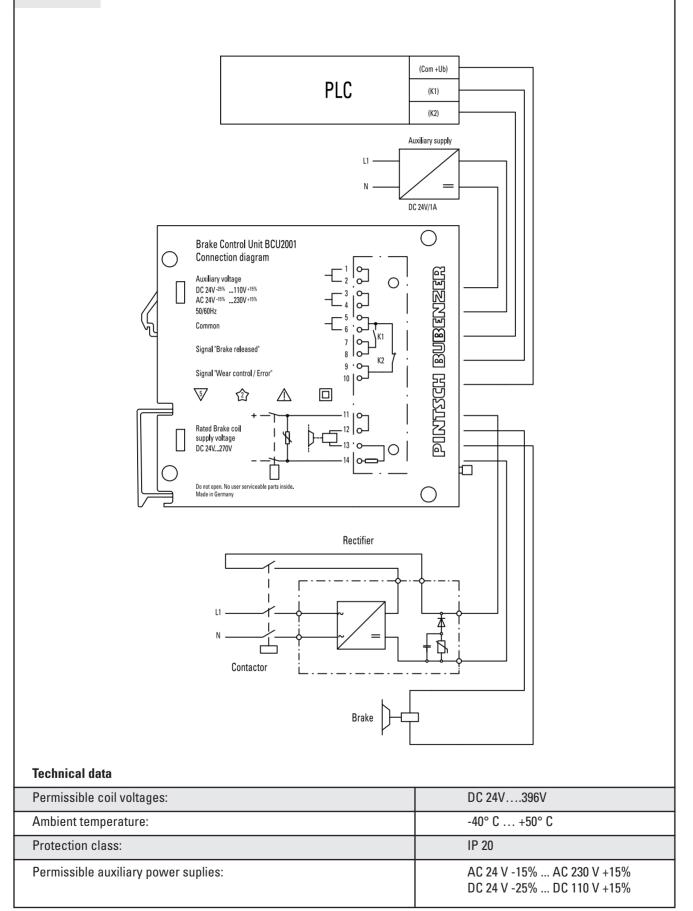
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Brake Control Unit BCU2001

Principal circuit diagram



Rev. 03-09

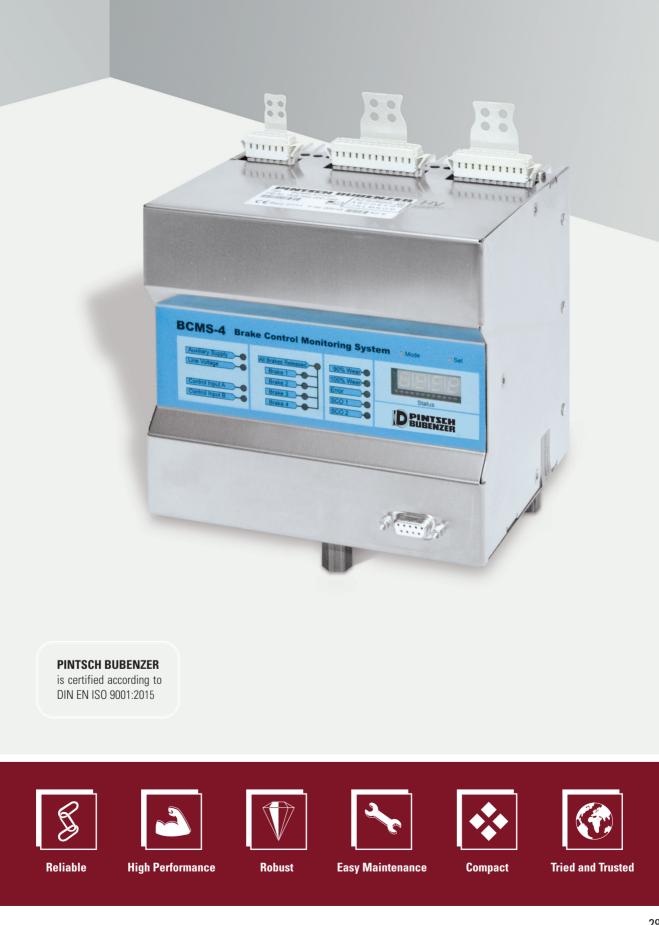


Notes



Brake Control Unit BCMS-4





Description Brake Control Unit BCMS-4



Main Features

Plug and play – minimal configuration and implementation effort
No micro- or proximity switches required for the brake (much lower amount of wiring)
Components such as contactors, power rectifier, suppressor to be omitted (space and cost savings)
Through the use of plug-in terminals a prior installa- tion of the connecting cables is possible (saves time)
Normal maintenance intervals are not required on our brakes (extreme reduction of maintenance costs)
Due to the 4-channel version up to four spring- loaded brakes can be operated simultaneously
Certified safety through professional association
In conjunction with a superior safety PLC operation by security classification DIN EN ISO 13849-1 PL d, Cat 3 is possible
Internal 2-channel safety logic in redundant design
Providing I / O diagnostic outputs for integration into PLC

Quick releasing and closing of the brakes

Overcurrent trip to protect the brakes

Wire break recognition

Minimize the power dissipation of the brakes by regulation the holding current

Internal menu structure

Representation of the status wear
User interface RS 232 for connection and intervention in the menu structure
Manual operation of the menu structure
The operating status and diagnostic messages are be visualized and displayed at the unit itself
Optimization of the wear allowance
"One solution, one source"

Applications

Container cranes
Ship winches
Automatic racking systems
Conveyor belts
General electrical drives

Method

The BCMS-4 is a micro-controller-based monitoring and switching device for spring applied brakes of the SFB and KFB series. Through measurement and analysis of current and voltage of the outgoing two-wire lines of the individual brakes wear and switching state of each electromagnetic springapplied brake can be detected in some distant mounting position. There can be up to four brakes operated and evaluated simultaneously. The operation of the brakes is fundamentally with rapid releasing and closing of the brakes.



Please Note

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PINTSCH BUBENZER Service

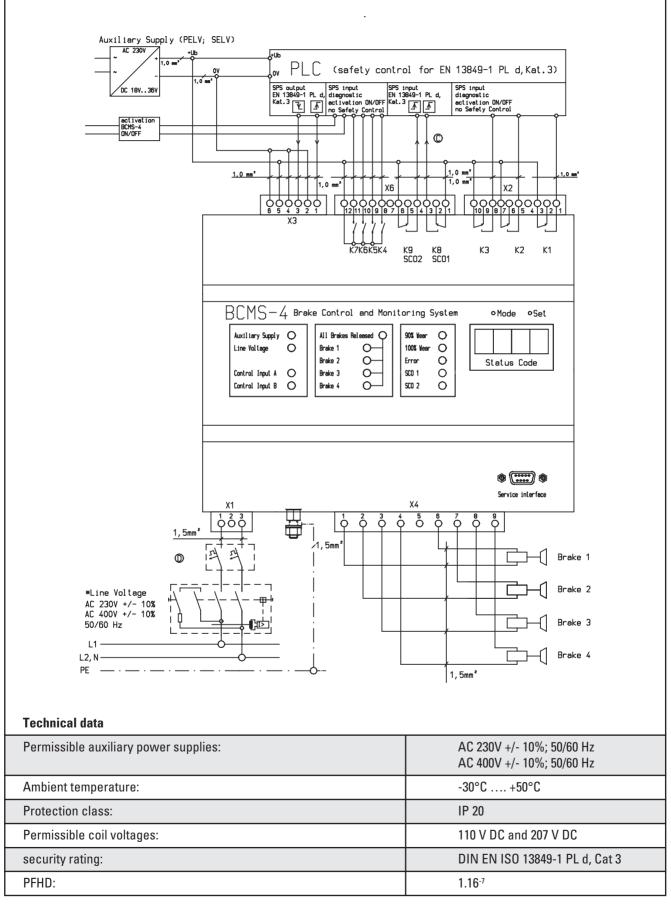
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Brake Control Unit BCMS-4

Principal circuit diagram



Rev. 11-11











2nd edition

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