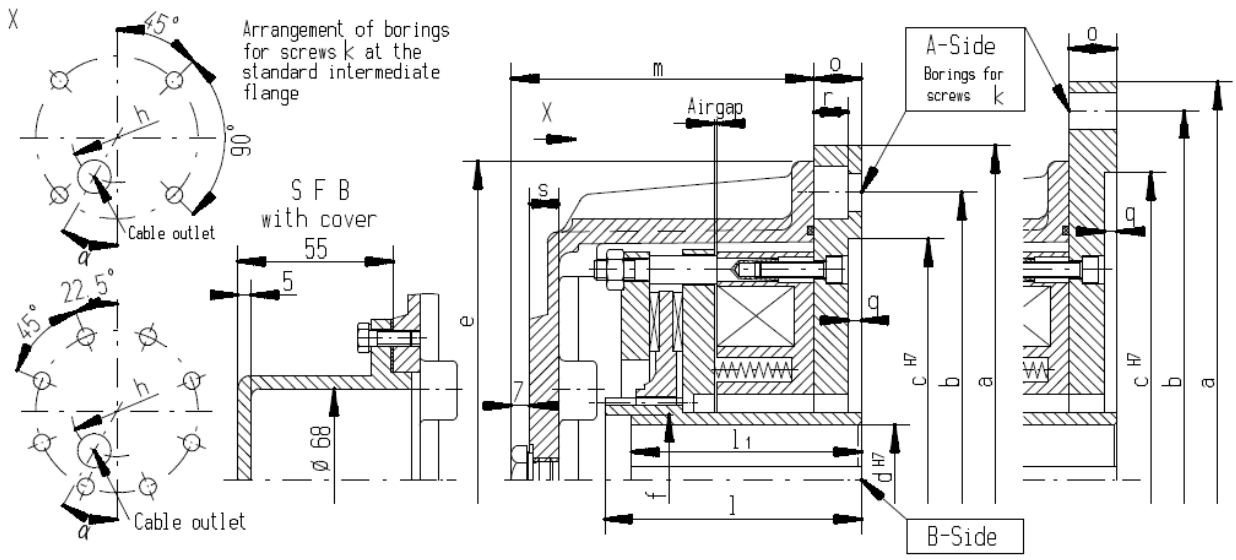
SFB
Electromagnetic Double-Disc Spring-Applied Brake

EURO HÜBNER BENELUX B.V.



Brake size				SFB 6,3	SFB 10	SFB 16	SFB 25	SFB 40	SFB 63	SFB 100	SFB 160	SFB 250
Brake torque M2)[1] dynamic acc. to DIN VDE 0580			Nm	63	100	160	250	400	630	1000	1600	2500
Mass moment of inertia			kgm^2	0,0017	0,0037	0,0048	0,0068	0,0175	0,036	0,050	0,128	0,140
Mass (weight)			kg	19	28	42	55	74	106	168	242	306
max. idle speed			min^{-1}	6000	6000	6000	5500	4700	4000	3600	3200	2800
Coil at 20°C	Nominal voltage		V DC	110	110	110	110	110	110	110	110	110
	Nominal power		W	99	128	158	196	220	307	344	435	495
	Nominal current		A	0,90	1,16	1,44	1,78	2,00	2,79	3,13	3,95	4,50
Airgap Off		normal	mm	0,3	0,3	0,3	0,4	0,4	0,4	0,6	0,4	0,4
		maximum	mm	0,9	1,2	1,2	1,3	1,4	1,8	1,8	2,3	2,5
Diameter mm	B-Side	d pilot bore		26	26	36	36	36	36	36	46	46
		d H7 preferential bore		28	28	38	38	42	60	60	65	70
				32	32	42	42	48	65	65	70	75
				38	38	48	48	55	70	70	80	80
											90	90
		d H7 maximum		40	40	55	55	60	75	75	110	110
		e		238	260	280	318	400	440	446	540	556
		f							95	95	128	128
		h		150	180	202	214	244	292	330	394	440
Length mm		l		96	96	117	117	142	148	148	191	191
		l_1 standard		96	96	117	117	142	142	142	171	171
		l_1 with tacho		93	93	114	114	138	142	142	171	171
		m		115	118	137	143	169	171	183	211	232
		s		11	11	11	12	14	15	15	15	15
Angle		α°		15	15	30	22,5	30	30	30	30	45
Suitable standard Intermediate flanges				A250	A300	A300-1	A350	A400-1	A450-1	A450-1	A550-1	A660
				A300	A350	A350	A400	A450	A550	A550	A660	A800
						A400	A450	A550	A660	A660	A800	
						A450						

)[1]: Measured at 1m/s; Values are only achieved after running-in process; other brake torque on request

Dimensions of standard intermediate flanges

Standard intermediate flange		A250	A300	A300-1	A350	A400	A400-1	A450	A450-1	A550	A550-1	A660	A800
Diameter mm	a	250	300	300	350	400	400	450	450	660	550	660	800
	b	215	265	265	300	350	350	400	400	600	500	600	740
	c H7	180	230	230	250	300	300	350	350	550	450	550	680
Length mm	o	18	18	18	20	22	22	24	24	30	24	30	30
	q	5	5	5	6	6	6	6	6	7	6	7	7
	r	16		13			17,5		17,5		17,5		
Screws k		4xM12	4xM12	4xM12	4xM16	4xM16	4xM16	8xM16	8xM16	8xM16	8xM16	8xM20	8xM20

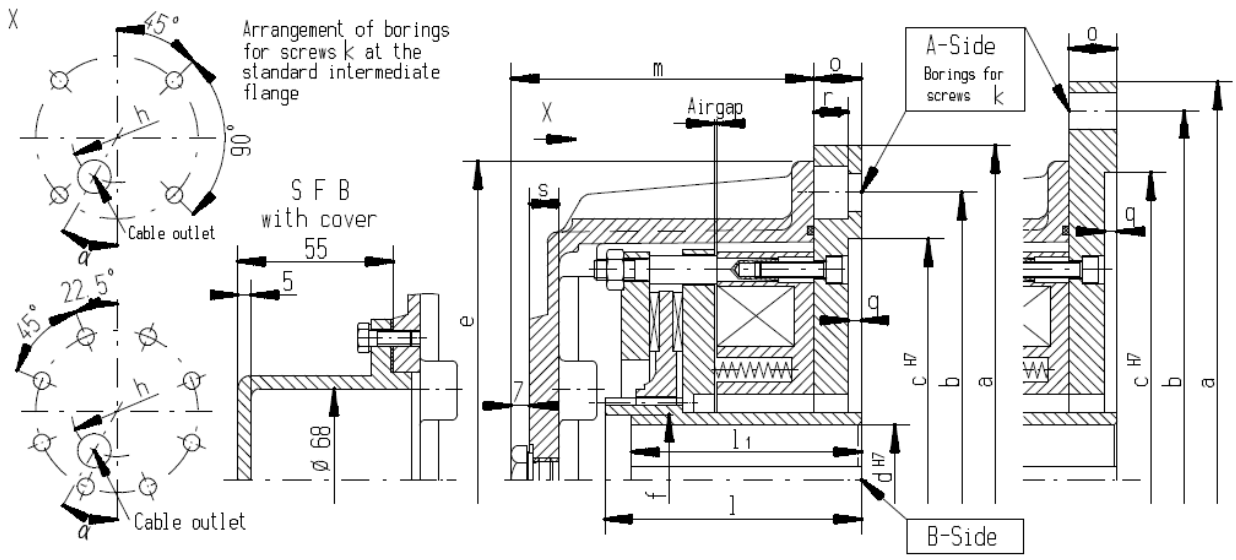
Keyways for keys acc. to DIN 6885/1; width accuracy P9
Protection IP67

Subject to change without notice

Version		Datum	Name		
D/8-THO21016	Erstellt	14.06.2021	THO	8-A01133000953	Blatt 1 von 2
	Geprüft	14.06.2021	THO		
	Freigegeben	17.06.2021	DIR		

SFB
Electromagnetic Double-Disc Spring-Applied Brake

EURO HÜBNER BENELUX B.V.



Brake size				SFB 400	SFB 630	SFB 1000						
Brake torque M2)[1] dynamic acc. to DIN VDE 0580			Nm	4000	6300	10000						
Mass moment of inertia			kgm^2	0,325	0,375	1,007						
Mass (weight)			kg	357	500	750						
max. idle speed			min^{-1}	2500	2200	2000						
Coil at 20°C	Nominal voltage		V DC	110	110	110						
	Nominal power		W	553	671	980						
	Nominal current		A	5,03	6,10	8,91						
Airgap Off		normal	mm	0,4	0,7	0,7						
		maximum	mm	2,5	2,8	3,1						
Diameter mm	B-Side	d pilot bore		46	58	68						
		d^{H7} preferential bore		65	100	125						
				70								
				80								
				90								
		d^{H7} maximum		110	125	140						
		e		660	700	795						
		f		128	140	155						
		h		520	570	620						
Length mm		l		191	237	282						
		l_1 standard		171	210	255						
		l_1 with tacho		171	210	255						
		m		272	310	360						
		s		15	15	15						
Angle		α°		30	30	30						
Suitable standard Intermediate flanges				A660-1	A800	A800-1						
				A800								

)[1]: Measured at 1m/s; Values are only achieved after running-in process; other brake torque on request

Dimensions of standard intermediate flanges

Standard intermediate flange		A660-1	A800	A800-1									
Diameter mm	a	660	800	800									
	b	600	740	740									
	c H^7	550	680	680									
Length mm	o	30	30	30									
	q	7	7	7									
	r	21,5		21,5									
Screws k		8xM20	8xM20	8xM20									

Keyways for keys acc. to DIN 6885/1; width accuracy P9
Protection IP67

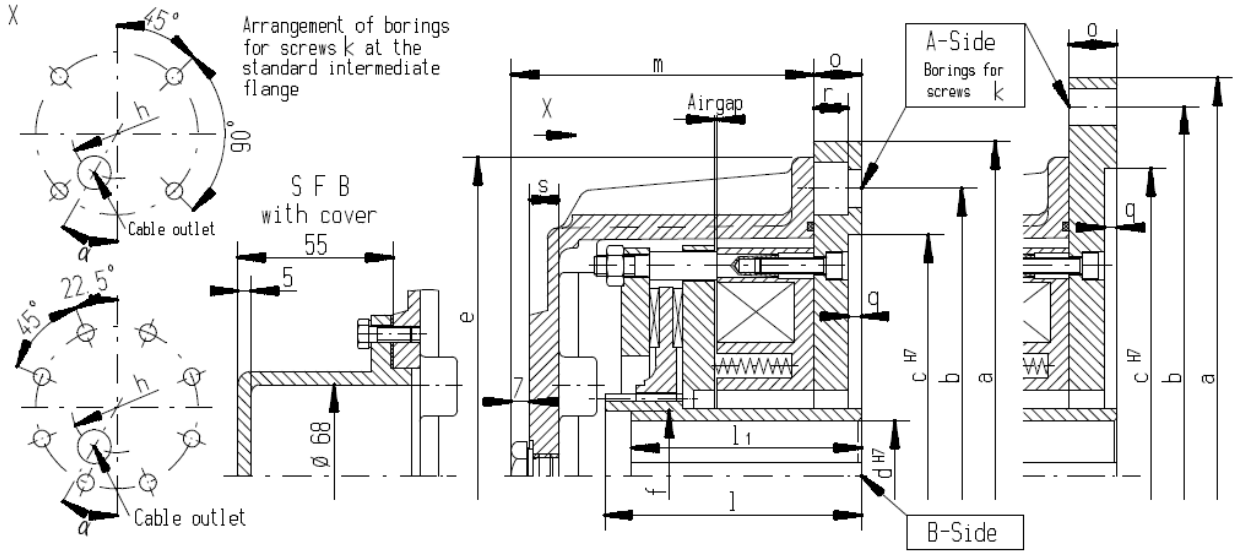
Subject to change without notice

Version		Datum	Name		
D/8-THO21016	Erstellt	14.06.2021	THO	8-A01133000953	Blatt 2 von 2
	Geprüft	14.06.2021	THO		
	Freigegeben	17.06.2021	DIR		

SFB-H
Electromagnetic Double-Disc Spring-Applied Brake

EURO HÜBNER BENELUX B.V.

Static brake with emergency operation



Brake size				SFB 6,3-H	SFB 10-H	SFB 16-H	SFB 25-H	SFB 40-H	SFB 63-H	SFB 100-H	SFB 160-H	SFB 250-H
Brake torque M2)[1] dynamic acc. to DIN VDE 0580			Nm	100	160	250	400	630	1000	1600	2500	4000
Mass moment of inertia			kgm^2	0,0017	0,0037	0,0048	0,0068	0,0175	0,036	0,050	0,128	0,140
Mass (weight)			kg	19	28	42	55	74	106	168	242	306
max. idle speed			min^{-1}	6000	6000	6000	5500	4700	4000	3600	3200	2800
Coil at 20°C	Nominal voltage		V DC	110	110	110	110	110	110	110	110	110
	Nominal power		W	99	128	158	196	220	307	344	435	495
	Nominal current		A	0,90	1,16	1,44	1,78	2,00	2,79	3,13	3,95	4,50
Airgap Off		normal	mm	0,3	0,3	0,3	0,4	0,4	0,4	0,6	0,4	0,4
		maximum	mm	0,7	0,9	1,0	1,0	1,2	1,5	1,5	1,9	2,0
Diameter mm	B-Side	d pilot bore		26	26	36	36	36	36	36	46	46
		d^{H7} preferential bore		28	28	38	38	42	60	60	65	70
				32	32	42	42	48	65	65	70	75
				38	38	48	48	55	70	70	80	80
											90	90
		d^{H7} maximum		40	40	55	55	60	75	75	110	110
		e		238	260	280	318	400	440	446	540	556
		f							95	95	128	128
		h		150	180	202	214	244	292	330	394	440
Length mm		l		96	96	117	117	142	148	148	191	191
		l_1 standard		96	96	117	117	142	142	142	171	171
		l_1 with tacho		93	93	114	114	138	142	142	171	171
		m		115	118	137	143	169	171	183	211	232
		s		11	11	11	12	14	15	15	15	15
Angle		α°		15	15	30	22,5	30	30	30	30	45
Suitable standard Intermediate flanges				A250	A300	A300-1	A350	A400-1	A450-1	A450-1	A550-1	A660
				A300	A350	A350	A400	A450	A550	A550	A660	A800
						A400	A450	A550	A660	A660	A800	
						A450						

)[1]: Measured at 1m/s; Values are only achieved after running-in process; other brake torque on request

Dimensions of standard intermediate flanges

Standard intermediate flange		A250	A300	A300-1	A350	A400	A400-1	A450	A450-1	A550	A550-1	A660	A800
Diameter mm	a	250	300	300	350	400	400	450	450	660	550	660	800
	b	215	265	265	300	350	350	400	400	600	500	600	740
	c H7	180	230	230	250	300	300	350	350	550	450	550	680
Length mm	o	18	18	18	20	22	22	24	24	30	24	30	30
	q	5	5	5	6	6	6	6	6	7	6	7	7
	r	16		13			17,5		17,5		17,5		
Screws k		4xM12	4xM12	4xM12	4xM16	4xM16	4xM16	8xM16	8xM16	8xM16	8xM16	8xM20	8xM20

Keyways for keys acc. to DIN 6885/1; width accuracy P9
Protection IP67

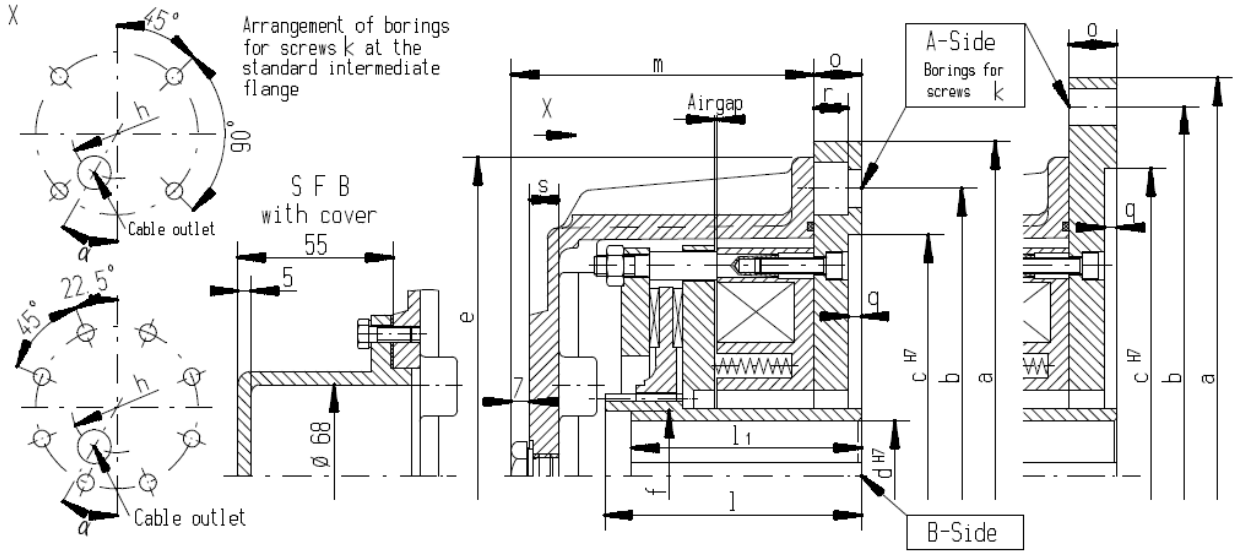
Subject to change without notice

Version		Datum	Name		
D/8-THO21016	Erstellt	14.06.2021	THO	8-001133202953	Blatt 1 von 2
	Geprüft	14.06.2021	THO		
	Freigegeben	17.06.2021	DIR		

SFB-H
Electromagnetic Double-Disc Spring-Applied Brake

EURO HÜBNER BENELUX B.V.

Static brake with emergency operation



Brake size			SFB 400-H	SFB 630-H
Brake torque M2)[1] dynamic acc. to DIN VDE 0580		Nm	6300	10000
Mass moment of inertia		kgm^2	0,325	0,375
Mass (weight)		kg	357	500
max. idle speed		min^{-1}	2500	2200
Coil at 20°C	Nominal voltage	V DC	110	110
	Nominal power	W	553	671
	Nominal current	A	5,03	6,10
Airgap Off	normal	mm	0,4	0,7
	maximum	mm	2,1	2,3
Diameter mm B-Side	d pilot bore		46	58
	d H7 preferential bore		65	100
			70	
			80	
			90	
	d H7 maximum		110	125
	e		660	700
	f		128	140
	h		520	570
Length mm	l		191	237
	l_1 standard		171	210
	l_1 with tacho		171	210
	m		272	310
	s		15	15
Angle	α°		30	30
Suitable standard Intermediate flanges			A660-1	A800
			A800	

)[1]: Measured at 1m/s; Values are only achieved after running-in process; other brake torque on request

Dimensions of standard intermediate flanges

Standard intermediate flange		A660-1	A800
Diameter mm	a	660	800
	b	600	740
	c H7	550	680
Length mm	o	30	30
	q	7	7
	r	21,5	
Screws k		8xM20	8xM20

Keyways for keys acc. to DIN 6885/1; width accuracy P9
Protection IP67

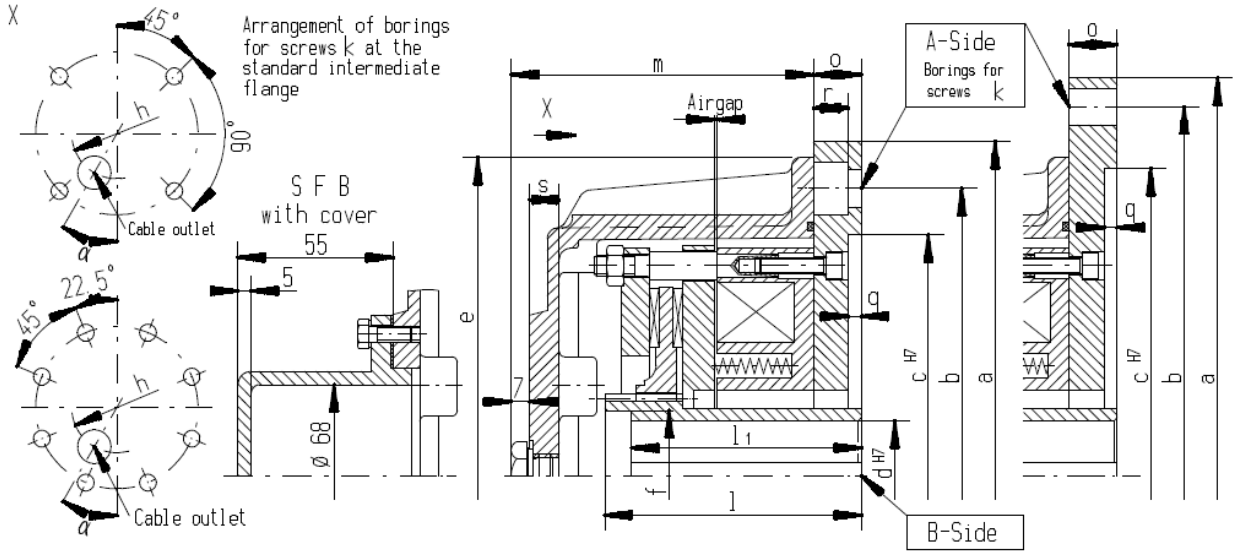
Subject to change without notice

Version		Datum	Name		
D/8-THO21016	Erstellt	14.06.2021	THO	8-001133202953	Blatt 2 von 2
	Geprüft	14.06.2021	THO		
	Freigegeben	17.06.2021	DIR		

SFB-SH
Electromagnetic Double-Disc Spring-Applied Brake

EURO HÜBNER BENELUX B.V.

Increased torque



Brake size				SFB 6,3-SH	SFB 10-SH	SFB 16-SH	SFB 25-SH	SFB 40-SH	SFB 63-SH	SFB 100-SH	SFB 160-SH	SFB 250-SH
Brake torque M2)[1] dynamic acc. to DIN VDE 0580			Nm	80	130	210	350	550	800	1300	2100	3300
Mass moment of inertia			kgm^2	0,0017	0,0037	0,0048	0,0068	0,0175	0,036	0,050	0,128	0,140
Mass (weight)			kg	19	28	42	55	74	106	168	242	306
max. idle speed			min^{-1}	6000	6000	6000	5500	4700	4000	3600	3200	2800
Coil at 20°C	Nominal voltage		V DC	110	110	110	110	110	110	110	110	110
	Nominal power		W	99	128	158	196	220	307	344	435	495
	Nominal current		A	0,90	1,16	1,44	1,78	2,00	2,79	3,13	3,95	4,50
Airgap Off		normal	mm	0,3	0,3	0,3	0,4	0,4	0,4	0,6	0,4	0,4
		maximum	mm	0,9	1,2	1,2	1,3	1,4	1,8	1,8	2,3	2,5
Diameter mm	B-Side	d pilot bore		26	26	36	36	36	36	36	46	46
		d H7 preferential bore		28	28	38	38	42	60	60	65	70
				32	32	42	42	48	65	65	70	75
				38	38	48	48	55	70	70	80	80
											90	90
		d H7 maximum		40	40	55	55	60	75	75	110	110
		e		238	260	280	318	400	440	446	540	556
		f							95	95	128	128
		h		150	180	202	214	244	292	330	394	440
Length mm		l		96	96	117	117	142	148	148	191	191
		l_1 standard		96	96	117	117	142	142	142	171	171
		l_1 with tacho		93	93	114	114	138	142	142	171	171
		m		115	118	137	143	169	171	183	211	232
		s		11	11	11	12	14	15	15	15	15
Angle		α°		15	15	30	22,5	30	30	30	30	45
Suitable standard Intermediate flanges				A250	A300	A300-1	A350	A400-1	A450-1	A450-1	A550-1	A660
				A300	A350	A350	A400	A450	A550	A550	A660	A800
						A400	A450	A550	A660	A660	A800	
						A450						

)[1]: Measured at 1m/s; Values are only achieved after running-in process; other brake torque on request

Dimensions of standard intermediate flanges

Standard intermediate flange		A250	A300	A300-1	A350	A400	A400-1	A450	A450-1	A550	A550-1	A660	A800
Diameter mm	a	250	300	300	350	400	400	450	450	660	550	660	800
	b	215	265	265	300	350	350	400	400	600	500	600	740
	c H7	180	230	230	250	300	300	350	350	550	450	550	680
Length mm	o	18	18	18	20	22	22	24	24	30	24	30	30
	q	5	5	5	6	6	6	6	6	7	6	7	7
	r	16		13			17,5		17,5		17,5		
Screws k		4xM12	4xM12	4xM12	4xM16	4xM16	4xM16	8xM16	8xM16	8xM16	8xM16	8xM20	8xM20

Keyways for keys acc. to DIN 6885/1; width accuracy P9
Protection IP67

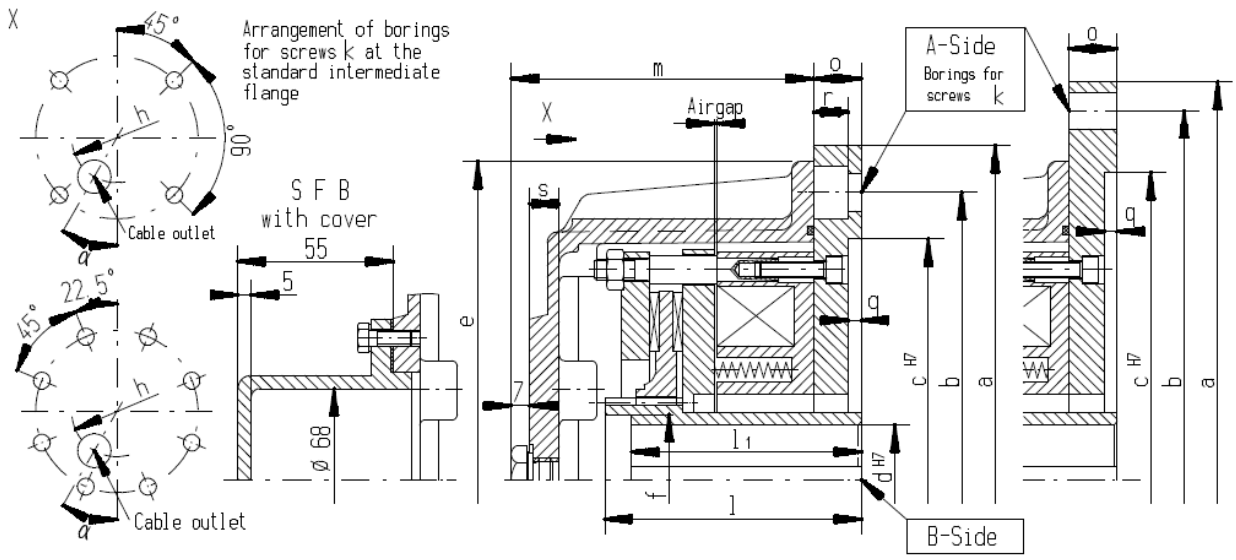
Subject to change without notice

Increased torque

Version		Datum	Name		
C/8-THO21016	Erstellt	14.06.2021	THO	8-A01231800953	Blatt 1 von 2
	Geprüft	14.06.2021	THO		
	Freigegeben	17.06.2021	DIR		

SFB-SH
Electromagnetic Double-Disc Spring-Applied Brake

EURO HÜBNER BENELUX B.V.



Brake size				SFB 400-SH	SFB 630-SH	SFB 1000-SH						
Brake torque M2)[1] dynamic acc. to DIN VDE 0580			Nm	5200	8000	13000						
Mass moment of inertia			kgm^2	0,325	0,375	1,007						
Mass (weight)			kg	357	500	750						
max. idle speed			min^{-1}	2500	2200	2000						
Coil at 20°C	Nominal voltage		V DC	110	110	110						
	Nominal power		W	553	671	980						
	Nominal current		A	5,03	6,10	8,91						
Airgap Off		normal	mm	0,4	0,7	0,7						
		maximum	mm	2,5	2,8	3,1						
Diameter mm	B-Side	d pilot bore		46	58	68						
		d^{H7} preferential bore		65	100	125						
				70								
				80								
				90								
		d^{H7} maximum		110	125	140						
	e			660	700	795						
	f			128	140	155						
	h			520	570	620						
Length mm	l			191	237	282						
	l_1 standard			171	210	255						
	l_1 with tacho			171	210	255						
	m			272	310	360						
	s			15	15	15						
Angle	α°			30	30	30						
Suitable standard Intermediate flanges				A660-1	A800	A800-1						
				A800								

)[1]: Measured at 1m/s; Values are only achieved after running-in process; other brake torque on request

Dimensions of standard intermediate flanges

Standard intermediate flange		A660-1	A800	A800-1									
Diameter mm	a	660	800	800									
	b	600	740	740									
	c H7	550	680	680									
Length mm	o	30	30	30									
	q	7	7	7									
	r	21,5		21,5									
Screws k		8xM20	8xM20	8xM20									

Keyways for keys acc. to DIN 6885/1; width accuracy P9
Protection IP67

Subject to change without notice

Version		Datum	Name		
C/8-THO21016	Erstellt	14.06.2021	THO	8-A01231800953	Blatt 2 von 2
	Geprüft	14.06.2021	THO		
	Freigegeben	17.06.2021	DIR		