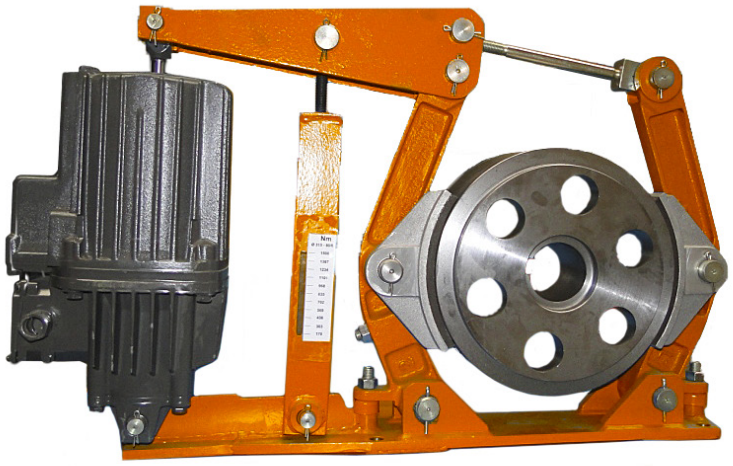
Svendborg Brakes®
Altra Industrial Motion

GLOBAL
LEADING
EXPERTS

Electro-Hydraulic Brake: DRUM Brake 18735

Name: 18735-MAR
Date: 25.05.2012
Revision: A



Svendborg Brakes – drum brakes are built in their details and connecting dimensions according to DIN 15435.

All pin joints are furnished with maintenance-free, self-lubricating bearing bushes.

The braking torques are stepless adjustable with a screw and will be read directly on spring tube.

Svendborg Brakes – drum brakes are delivered with aluminium brake shoes and sticked-on brake linings, if not other requested.

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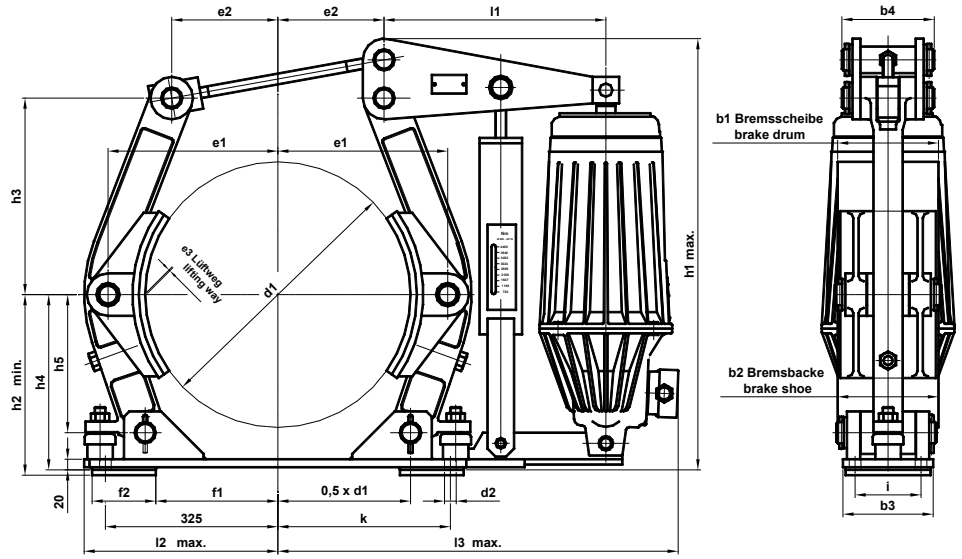
Electro-Hydraulic Brake: DRUM Brake 18735

Specification

DRAWINGS

Designation of a drum brake Ø 400 for brake lifter Ed 80/6:
SB – Drum brake 400-80/6 NO 18735



CALCULATION FUNDAMENTALS

Abmessungen – dimensions (mm)																						$M_{B\,max.}$ μ=0,4	lifter	unit weight
d_1	b_1	b_2	b_3	b_4	d_2	e_1	e_2	e_3	f_1	f_2	h_1	h_2	h_3	h_4	h_5	h_6	i	k	l_1	l_2	l_3	Nm	Ed	kg
200	75	70	80	85	14	140	100	1,1	65	100	396	160	165	155	110	15	55	145	240	175	460	230	23/5	20
											480										457	300	30/5	
250	95	90	100	100	18	170	125	1,3	95	100	466	190	200	185	135	17	65	180	260	205	505	240	23/5	30
											485										502	320	30/5	
315	118	110	110	125	18	212	140	1,2	135	100	566	230	250	225	170	17	80	220	300	248	557	420	30/5	40
								1,5			570										597	620	50/6	
											585											1060	80/6	
400	150	140	140	165	22	260	160	1,5	170	120	676	280	305	270	205	20	100	270	355	300	672	1310	80/6	80
											795										655	1890	121/6	
																						3300	201/6	
500	190	180	170	200	22	320	200	1,4	230	120	812	340	370	330	260	20	130	325	418	365	775	1810	80/6	115
																						2650	121/6	
								2,8			920										758	4550	201/6	
																							201/12	
630	236	225	220	240	27	390	255	1,5	280	150	977	420	440	410	325	25	170	400	475	445	870	3200	121/6	200
																						5500	201/6	
								3														8600	301/6	
																							301/12	
710	265	255	240	270	27	440	285	1,5	335	150	1089	470	490	460	370	25	190	450	505	500	930	5900	201/6	250
																						9500	301/6	
								3															301/12	

1) Settings in accordance with the optimal nominal running parameters of the thruster. Other settings on request.

Application with other lifting devices by order agreed.
SB – Brake shoes see NO 18800
SB – Brake linings see NO 18812

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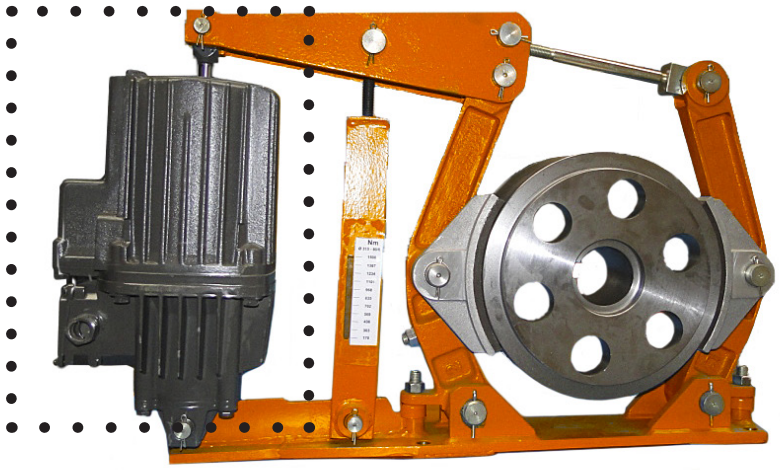
Electro-Hydraulic Brake: LIFTING Devices 18830

Name: 18830-MAR
Date: 24.05.2012
Revision: A



Designation of an electro-hydraulic brake lifting device with three phase alternating current design (Ed) with a nominal lifting force of 220 N, a stroke B of 50 mm, with countersunk valve S for operating voltage 3 AC 50 Hz 500 V:

TECHNICAL DATA AND CALCULATION FUNDAMENTALS

Nenngröße size Ed	Abmessungen – dimensions (mm)																					Stückgewicht unit weight kg
	A	B	C	D	E $^{+0,1}$	F	G	H $^{+0,25}_{+0,15}$	I	K	L	M	N	O	P	a	b	c	d	e	z	
23 / 5	286	50	26	12	12	20	16	20					40	200	16		20					10
30 / 5	370		34	15	16	25		18		160		80		197		100		55	85	75	15	14
50 / 6	435	60															22					23
50 / 12	515	120	36	18	20	30	20	23	-	195	-	120	60	254	22	-		-	-	-	-	26
80 / 6	450	60														100	22	55	85	75	15	24
80 / 12	530	120														-	-	-	-	-	-	27
121 / 6	645	60														147	35	80	130	120	20	
121 / 12	705	120														-	-	-	-	-	-	39
201 / 6	645	60	38	25	25	40	25	35	117	240	112	90	40	260	25	147	35	80	130	120	20	
201 / 12	705	120														-	-	-	-	-	-	
301 / 6	645	60														147	35	80	130	120	20	40
301 / 12	705	120														-	-	-	-	-	-	

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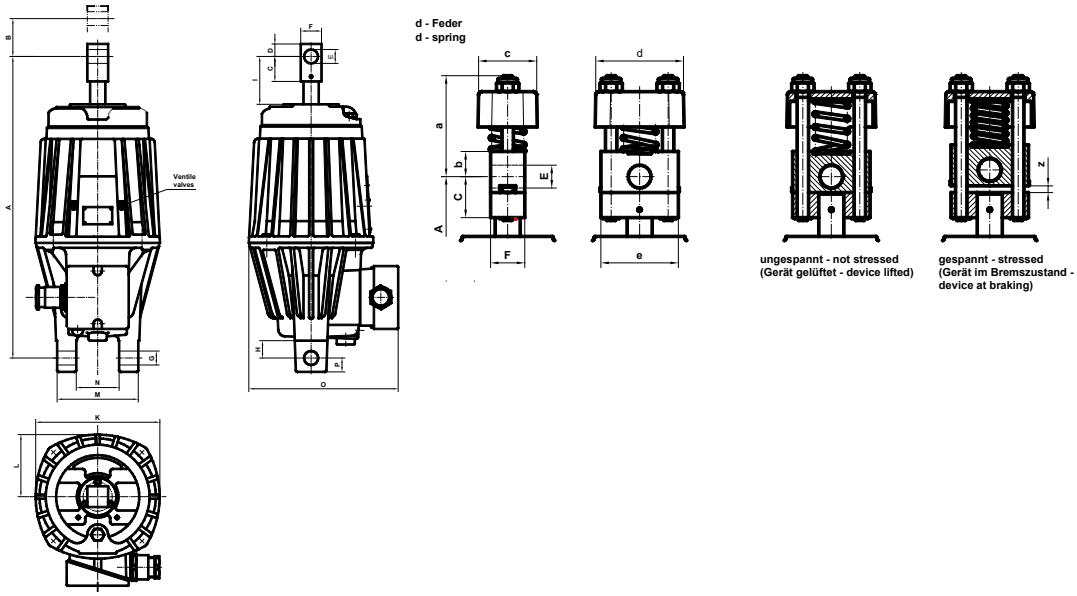
Electro-Hydraulic Brake: LIFTING Devices 18830

Specification

DRAWINGS

Brake lifting device Ed 23/5–S 50 Hz 500 V–NO 18830



CALCULATION FUNDAMENTALS

Nenngröße size Ed	Hubkraft stroke power N	Hubweg stroke distance mm	Hubarbeit stroke operating N/cm	Bremsfederkraft (c – Feder) brake spring power (c – spring) N	Leistungs-aufnahme power input W
23 / 5	220	50	1100	180	165
30 / 5	300		1500	270	200
50 / 6	500	60	3000	460	210
50 / 12		120	6000	-	
80 / 6	800	60	4800	750	330
80 / 12		120	9600	-	
121 / 6	1250	60	7500	120	
121 / 12		120	15000	-	
201 / 6	2000	60	12000	1900	450
201 / 12		120	24000	-	
301 / 6	3000	60	18000	2700	550
301 / 12		120	36000	-	

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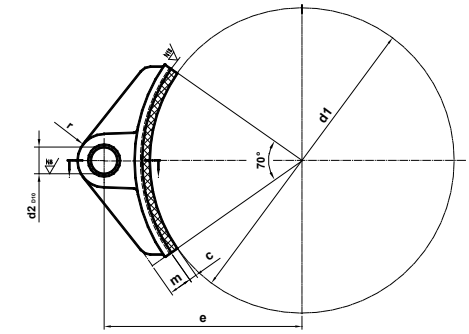
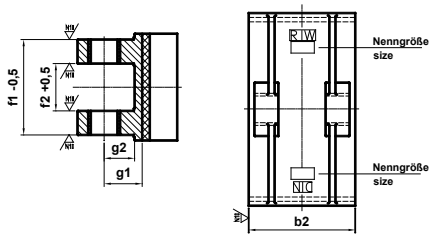
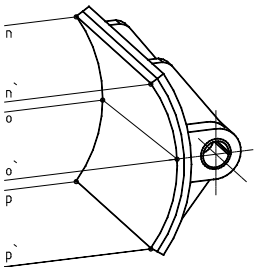
Electro-Hydraulic Brake: BRAKE Shoes 18800

Name: 18800-MAR
Date: 24.05.2012
Revision: A

Measuring points for determination of form variation.







Designation of a brake shoe without rivet holes with sticked on brake lining (form C) for brake drum diameter d_1 = 500 mm:
SB – brake shoe C 500 NO 18800 with lining [3)]

Electro-Hydraulic Brake: BRAKE Shoes 18800

Specification

CALCULATION FUNDAMENTALS

1) Admissible deviation of parallelism related to bores d2 and sticking area.
2) Admissible form deviation related to friction area between brake lining and brake drum (with tolerance range h11) reh11) lated to measuring points n, o, p and n´, o´, p´.
3) SB – Brake lining according to NO 18812 respectively by choice of purchaser.

Material: Aluminium – sand-casting

SB – Drum brakes see NO 18735

Nenngröße size	Abmessungen – dimensions (mm)											Stückgewicht unit weight
								zulässige [1] Abweichung admissible deviation			zulässige Formabw. admissible form deviation	
d_1	b_2	c	d_2 / r	e	f_1	f_2	g_1		g_2	$m_{max.}$	n-p, n´-p´ [2]	kg
200	70	8	20	140	65	35	32	0,1	24	17	0,15	0,5
250	90	8	25	170	80	40	37		29	22		0,8
315	110	10	30	212	100	50	44,5		34,5	25		1,4
400	140	10	35	260	125	62	50	0,15	40	30	0,2	2,1
500	180	12	40	320	160	80	58		46	33		3,8
630	225	12	45	390	200	100	63	0,2	51	38	0,3	5,5
710	255	15	50	440	224	112	70		56	40		8,2