Transmak ELEKTRIK MOTOR

TAB

ALUMINIUM HOUSING

ASYNCHONOUS THREE-PHASE BRAKE MOTORS WITH SQUIRREL CAGE ROTOR DIRECT CURRENT BRAKE

TAB series -enclosed construction externally ventilated -sizes 63 – 160

The brake-motors of the **TAB** series result from coupling an asynchronous three-phase motor and an electromagnetic D.C. brake unit. Due to their eliability and operating safety, as well as their quick braking time (connection & disconnection time = 5-80 milliseconds) they are suitable for a great variety of applications. as:

- Braking of loads or tourqes on driving shaft.
- Braking of rotating masses to reduce any lost-time.
- Braking operations to increase the set-up precision.
- Braking of machine parts, according to safety rules.

Please refer to the **TA** motor overall dimensions

TECHNICAL FEATURES

2 poles-3000rpm-50Hz

Brake motors have a ± 6% tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. N	Power factor	Rated Current (A)			Tstart/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Is/In	Noise dB(A)
					230V	400V	690V					
TAB - 631- 2	0.18	2710	63	0.75	0.95	0.55	0.32	2.2	2.4	1.6	6	61
TAB - 632- 2	0.25	2710	65	0.78	1.23	0.71	0.41	2.2	2.4	1.6	6	61
TAB - 633- 2	0.37	2710	65	0.78	1.82	1.05	0.61	2.2	2.4	1.6	6	62
TAB - 711- 2	0.37	2730	70	0.79	1.67	0.97	0.56	2.2	2.4	1.6	6	64
TAB - 712- 2	0.55	2760	71	0.79	2.45	1.42	0.82	2.2	2.4	1.6	6	64
TAB - 713- 2	0.75	2730	72	0.82	3.18	1.83	1.06	2.2	2.4	1.5	6	65
TAB - 801- 2	0.75	2770	73	0.84	3.06	1.77	1.02	2.2	2.4	1.5	6	67
TAB - 802- 2	1.1	2770	76.2	0.83	4.35	2.51	1.45	2.2	2.4	1.5	6	67
TAB - 803- 2	1.5	2800	78.5	0.83	5.87	3.32	1.92	2.2	2.4	1.5	6	70
TAB - 90S- 2	1.5	2840	78.5	0.84	5.76	3.28	1.90	2.2	2.4	1.5	6	72
TAB - 90L1- 2	2.2	2840	81	0.85	8.0	4.61	2.66	2.2	2.4	1.4	6	72
TAB - 90L2- 2	3	2840	82.6	0.86	10.56	6.10	3.52	2.2	2.4	1.4	6	74
TAB - 100L1- 2	3	2840	82.6	0.87	10.44	6.03	3.48	2.2	2.3	1.4	7	76
TAB - 100L2- 2	4	2850	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
TAB - 112M- 2	4	2880	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
TAB - 112L- 2	5.5	2880	85.7	0.88	18.23	10.53	6.08	2.2	2.3	1.2	7.5	78
TAB - 132S1- 2	5.5	2900	85.7	0.88	18.23	10.53	6.08	2	2.2	1.2	7.5	80
TAB - 132S2- 2	7.5	2920	87	0.88	24.49	14.14	8.16	2	2.2	1.2	7.5	80
TAB - 132M1- 2	9.2	2930	88	0.89	29.87	17.25	9.96	2	2.2	1.2	7.5	81
TAB - 132M2- 2	11	2930	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	83
TAB - 160M1- 2	11	2940	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	86
TAB - 160M2- 2	15	2940	89.4	0.91	46.09	26.61	15.36	2	2.2	1.2	7.5	86
TAB - 160L- 2	18.5	2940	90	0.91	56.47	32.6	18.82	2	2.2	1.1	7.5	86

Type	Brake Type k	Brake torque Nm	Brake Rated Power W	J brake Pd^2 kgm^2	No.of Starts/Hr. Under no load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut out Time Msec.	Noise dB(A)
TAB 63	K1	5	15	0.00005	3000	45	20	10	62
TAB 71	K2	12	20	0.00014	3000	50	30	15	64
TAB 80	K3	16	25	0.00021	1300	55	30	15	67
TAB 90S	K4	20	30	0.00039	1100	65	40	15	72
● TAB 90S	K4 D	40	30	0.00078	1100	65	40	15	72
TAB 90L	K4	20	30	0.00039	1100	65	40	15	72
● TAB 90L	K4 D	40	30	0.00078	1100	65	40	15	72
TAB 100L	K5	40	45	0.00104	900	75	45	20	76
● TAB 100L	K6	60	50	0.00135	900	180	85	25	76
TAB 112 MT	K5	40	45	0.00104	880	75	45	20	77
TAB 112M	K6	60	50	0.00135	880	180	85	25	78
TAB 132S	K7	90	55	0.00219	480	200	95	50	80
● TAB 132S	K7 D	180	55	0.00438	480	200	95	50	80
TAB 132M	K7	90	55	0.00219	450	200	95	50	80
● TAB 132M	K7 D	180	55	0.00438	480	200	95	50	80
TAB 160MT	K7 D	180	55	0.00438	350	200	95	50	86
TAB 160L	K8	200	60	0.00408	350	210	100	60	86
● TAB 160L	K8 D	400	60	0.00816	350	210	100	60	86

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments, We suggest double disk brake D for lifting equipments.

TECHNICAL FEATURES

4 poles - 1500 rpm- 50Hz

Brake motors have a ±6% tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power factor	Rated Current (A)			Tstar tan (Times)	Tmaxa n (Times)	Tmin/Tn (Times)	Is/In	Noise dB(A)
					230V	400V	690V					
TAB - 631- 4	0.12	1350	57	0.64	0.82	0.47	0.27	2.2	2.4	1.7	6	52
TAB - 632- 4	0.18	1350	59	0.65	1.17	0.68	0.39	2.2	2.4	1.7	6	52
TAB - 633- 4	0.25	1350	60	0.66	1.58	0.91	0.53	2.2	2.4	1.7	6	54
TAB - 711- 4	0.25	1350	60	0.72	1.45	0.84	0.48	2.2	2.4	1.7	6	55
TAB - 712- 4	0.37	1370	65	0.74	1.92	1.11	0.64	2.2	2.4	1.7	6	55
TAB - 713- 4	0.55	1380	66	0.75	2.78	1.60	0.93	2.2	2.4	1.7	6	57
TAB - 801- 4	0.55	1370	67	0.75	2.74	1.58	0.91	2.2	2.4	1.7	6	58
TAB - 802- 4	0.75	1380	72	0.78	3.34	1.93	1.11	2.2	2.4	1.6	6	58
TAB - 803- 4	1.1	1390	76.2	0.78	4.63	2.67	1.54	2.2	2.4	1.6	6	60
TAB - 90S- 4	1.1	1400	76.2	0.79	4.57	2.64	1.52	2.2	2.4	1.6	6	61
TAB - 90L- 4	1.5	1400	78.5	0.8	5.97	3.45	1.99	2.2	2.4	1.6	6	61
TAB - 90L2- 4	2.2	1400	81	0.8	8.45	4.90	2.83	2.2	2.4	1.5	7	63
TAB - 100L1- 4	2.2	1420	81	0.81	8.38	4.84	2.79	2.2	2.3	1.5	7	64
TAB - 100L2- 4	3	1420	82.6	0.81	11.21	6.47	3.74	2.2	2.3	1.5	7	64
TAB - 100L3- 4	4	1430	84.2	0.82	14.18	8.36	4.83	2.2	2.3	1.5	7	65
TAB - 112M- 4	4	1430	84.2	0.83	14.31	8.26	4.77	2.2	2.2	1.5	7	65
TAB - 112L- 4	5.5	1440	85.7	0.83	19.33	11.16	6.44	2.2	2.2	1.4	7	68
TAB - 132S- 4	5.5	1450	85.7	0.84	19.1	11.03	6.37	2.2	2.2	1.4	7	71
TAB - 132M- 4	7.5	1450	87	0.85	25.35	14.64	8.45	2.2	2.2	1.4	7	71
TAB - 132L1- 4	9.2	1460	87.5	0.85	30.92	17.85	10.31	2.2	2.2	1.4	7.5	74
TAB - 132L2- 4	10	1460	88	0.85	33.42	19.3	11.14	2.2	2.2	1.4	7.5	74
TAB - 132L3- 4	11	1460	88.4	0.86	36.17	20.88	12.06	2.2	2.2	1.4	7.5	74
TAB - 160M- 4	11	1460	88.4	0.87	35.76	20.64	11.92	2.2	2.2	1.4	7	75
TAB - 160L- 4	15	1460	88.4	0.87	48.76	28.15	16.25	2.2	2.2	1.4	7.5	75

Type	Brake Type k	Brake torque N m	Brake Rated Power W	J brake Pd ^{2} kgm ^{2}	No.of Starts/Hr. Under no load	Delayed Cut-in Time* Msec.	Quick Cut-in Time Msec.	Cut out Time Msec.	Noise dB(A)
TAB 63	K1	5	15	0.00005	3000	45	20	10	52
TAB 71	K2	12	20	0.00014	3000	50	30	15	55
TAB 80	K3	16	25	0.00021	1300	55	30	15	58
TAB 90S	K4	20	30	0.00039	1100	65	40	15	61
● TAB 90S	K4 D	40	30	0.00078	1100	65	40	15	61
TAB 90L	K4	20	30	0.00039	1100	65	40	15	63
● TAB 90L	K4 D	40	30	0.00078	1100	65	40	15	63
TAB 100L	K5	40	45	0.00104	900	75	45	20	64
TAB 100L	K6	60	50	0.00135	900	180	85	25	65
TAB 112MT	K5	40	45	0.00104	880	75	45	20	65
TAB 112 M	K6	60	50	0.00135	880	180	85	25	65
TAB 132S	K7	90	55	0.00219	480	200	95	50	71
● TAB 132S	K7 D	180	55	0.00438	480	200	95	50	71
TAB 132M	K7	90	55	0.00219	450	200	95	50	71
● TAB 132M	K7 D	180	55	0.00438	480	200	95	50	71
TAB 160MT	K7 D	180	55	0.00438	350	200	95	50	75
TAB 160L	K8	200	60	0.00408	350	210	100	60	75
● TAB 160L	K8 D	400	60	0.00816	350	210	100	60	75

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments, We suggest double disk brake D for lifting equipments.

TECHNICAL FEATURES

6 poles - 1000 rpm- 50Hz

Brake motors have a ± 6% tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power factor	Rated Current (A)			Tstar tan (Times)	Tmaxan (Times)	Tminan (Times)	is/in	Noise dB(A)
					230V	400V	690V					
TAB - 631- 6	0.09	840	42	0.61	0.88	0.51	0.29	2	2	1.5	3.5	50
TAB - 632- 6	0.12	850	45	0.62	1.08	0.62	0.36	2	2	1.5	3.5	50
TAB - 711- 6	0.18	880	56	0.66	1.22	0.70	0.41	1.6	1.7	1.5	4	52
TAB - 712- 6	0.25	900	59	0.7	1.51	0.87	0.50	2.1	2.2	1.5	4	52
TAB - 713- 6	0.37	890	61	0.69	2.2	1.27	0.73	2	2.1	1.5	4	54
TAB - 801- 6	0.37	900	62	0.7	2.13	1.23	0.71	1.9	1.9	1.5	4	56
TAB - 802- 6	0.55	900	67	0.72	2.85	1.65	0.95	2	2.3	1.5	4	56
TAB - 803- 6	0.75	900	68	0.72	3.83	2.21	1.28	2	2.3	1.5	4	58
TAB - 905- 6	0.75	920	69	0.72	3.77	2.18	1.26	2.2	2.2	1.5	5.5	59
TAB - 90L- 6	1.1	925	72	0.73	5.23	3.02	1.74	2.2	2.2	1.3	5.5	59
TAB - 100L- 6	1.5	945	74	0.76	6.67	3.85	2.22	2.2	2.2	1.3	6	61
TAB - 112M- 6	2.2	955	78	0.76	9.28	5.36	3.09	2.2	2.2	1.3	6	64
TAB - 132S- 6	3	960	79	0.76	12.49	7.21	4.16	2	2	1.3	6.5	64
TAB - 132M1- 6	4	960	80.5	0.76	16.35	9.44	5.45	2	2	1.3	6.5	68
TAB - 132M2- 6	5.5	960	83	0.77	21.51	12.42	7.17	2	2	1.3	6.5	68
TAB - 132L- 6	7.5	960	85	0.77	28.65	16.54	9.55	2	2	1.3	6.5	68
TAB - 160M- 6	7.5	960	86	0.8	27.25	15.73	9.08	2	2.2	1.3	6.5	68
TAB - 160L- 6	11	960	87.5	0.79	39.78	22.97	13.26	2	2.2	1.2	6.5	73

Type	Brake Type k	Brake torque N Nm	Brake Rated Power W	J brake Pd ² kgm ²	No.of Starts/Hr. Under no load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut out Time Msec.	Noise dB(A)
TAB 63	K1	5	15	0.00005	3000	45	20	10	50
TAB 71	K2	12	20	0.00014	3000	50	30	15	52
TAB 80	K3	16	25	0.00021	1300	55	30	15	56
TAB 905	K4	20	30	0.00039	1100	65	40	15	59
● TAB 905	K4 D	40	30	0.00078	1100	65	40	15	59
TAB 90 L	K4	20	30	0.00039	1100	65	40	15	59
● TAB 90 L	K4 D	40	30	0.00078	1100	65	40	15	59
TAB 100 L	K5	40	45	0.00104	900	75	45	20	61
● TAB 100 L	K6	60	50	0.00135	900	180	85	25	61
TAB 112MT	K5	40	45	0.00104	880	75	45	20	64
TAB112M	K6	60	50	0.00135	880	180	85	25	64
TAB 132 S	K7	90	55	0.00219	480	200	95	50	64
● TAB 132 S	K7 D	180	55	0.00438	480	200	95	50	64
TAB 132 M	K7	90	55	0.00219	450	200	95	50	68
● TAB 132 M	K7 D	180	55	0.00438	480	200	95	50	68
TAB 160 MT	K7 D	180	55	0.00438	350	200	95	50	68
TAB 160 L	K8	200	60	0.00408	350	210	100	60	73
● TAB 160 L	K8 D	400	60	0.00816	350	210	100	60	73

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments, We suggest double disk brake D for lifting equipments.

TECHNICAL FEATURES

8 poles - 750 rpm- 50Hz

Brake motors have a ± 6% tolerance on the supply voltage

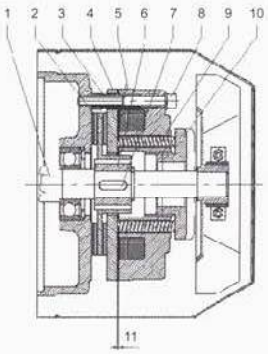
Model	Power (KW)	Speed (r/min)	Eff. (%)	Power factor	Rated Current (A)			Tstart/Tn (Times)	TmaxiTn (Times)	Tmina n (Times)	s Is/In	Noise dB(A)
					230V	400V	690V					
TAB - 711- 8	0.09	680	48	0.56	0.84	0.48	0.28	1.5	1.7	1.3	3	50
TAB - 712- 8	0.12	690	51	0.59	1.00	0.58	0.33	1.6	1.7	1.3	2.7	50
TAB - 801- 8	0.18	680	51	0.61	1.45	0.84	0.48	1.5	1.7	1.3	2.8	52
TAB - 802- 8	0.25	680	56	0.61	1.83	1.06	0.61	1.6	2	1.3	2.7	52
TAB - 905- 8	0.37	680	63	0.63	2.33	1.35	0.78	1.6	1.8	1.3	2.8	56
TAB - 90L- 8	0.55	680	66	0.65	3.21	1.85	1.07	1.6	1.8	1.3	3	56
TAB - 100L1- 8	0.75	710	66	0.67	4.24	2.45	1.41	1.7	2.1	1.3	3.5	59
TAB - 100L2- 8	1.1	710	72	0.69	5.54	3.20	1.85	1.7	2.1	1.2	3.5	59
TAB - 112M- 8	1.5	710	74	0.68	7.45	4.30	2.48	1.8	2.1	1.2	4.2	61
TAB - 1325- 8	2.2	720	75	0.71	10.33	5.96	3.44	2	2	1.2	5.5	64
TAB - 132M- 8	3	720	77	0.73	13.34	7.70	4.45	2	2	1.2	5.5	64
TAB - 160M1- 8	4	730	80	0.73	17.12	9.89	5.71	1.9	2.1	1.2	6	68
TAB - 160M2- 8	5.5	720	83.5	0.74	22.25	12.85	7.42	2	2.2	1.2	6	68
TAB - 160L- 8	7.5	720	85	0.75	29.41	17.0	9.8	1.9	2.2	1.2	6	68

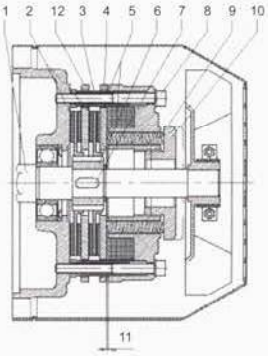
	Type	Brake Type k	Brake torque N m	Brake Rated Power W	J brake Pd^2 kgm^2	No.of Starts/Hr. Under no load	Delayed Cut-in Time★ Msec.	Quick Cut-in Time Msec.	Cut out Time Msec.	Noise dB(A)
	TAB 63	K1	5	15	0.00005	3000	45	20	10	50
	TAB 71	K2	12	20	0.00014	3000	50	30	15	50
	TAB 80	K3	16	25	0.00021	1300	55	30	15	52
	TAB 90 S	K4	20	30	0.00039	1100	65	40	15	56
●	TAB 90 S	K4 D	40	30	0.00078	1100	65	40	15	56
	TAB 90 L	K4	20	30	0.00039	1100	65	40	15	56
●	TAB 90 L	K4 D	40	30	0.00078	1100	65	40	15	56
	TAB 100 L	K5	40	45	0.00104	900	75	45	20	59
●	TAB 100 L	K6	60	50	0.00135	900	180	85	25	59
	TAB 112 MT	K5	40	45	0.00104	880	75	45	20	61
	TAB 112 M	K6	60	50	0.00135	880	180	85	25	61
	TAB 132 S	K7	90	55	0.00219	480	200	95	50	64
●	TAB 132 S	K7 D	180	55	0.00438	480	200	95	50	64
	TAB 132 M	K7	90	55	0.00219	450	200	95	50	64
	TAB 132 M	K7 D	180	55	0.00438	480	200	95	50	64
	TAB 160 MT	K7 D	180	55	0.00438	350	200	95	50	68
	TAB 160 L	K8	200	60	0.00408	350	210	100	60	68
●	TAB 160 L	K8 D	400	60	0.00816	350	210	100	60	68

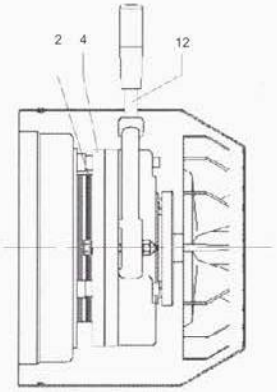
● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments, We suggest double disk brake D for lifting equipments.

ELECTROMAGNETIC DIRECT CURRENT BRAKE SERIES TAB







OPERATING PRINCIPLE

The direct current brake is fed by means of an electronic circuit with diode bridge (rectifier) situated inside the terminal-box.

(5) When feeding the electromagnet
(4) The movable anchor is attracted towards the same,
(9) thus loading the braking torque springs,
(2) And allowing the disk
(6) Equipped with friction packing and fitted on the groove hub
(1) To turn solitary the motor shaft,
(7) By means of a key
(4) By interrupting the feeding, the movable anchor
(9) Pushed by the braking torque springs
(2) Exerts a pressure upon the friction surface of the disk

Thus causing its stopping.

ADJUSTMENT OF THE AIR GAP.

(11) The air gap
(5) Is the distance between the electromagnet
(9) And the movable anchor
(2) The air gap has to be regularly checked, since due to the wear of the friction packing It tends to increase.
(3) Act no the brake adjusters
(8) After having unloosen the screws To bring the air gap to the required value.
(10) Act on the ring nut
(9) which acts on the braking torque springs to adjust the braking torque.

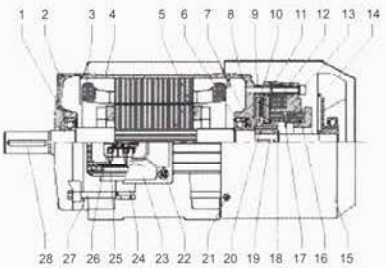
Pls. contact our technical department for information on the air gap adjustn

HANDRELEASE WITH LEVER

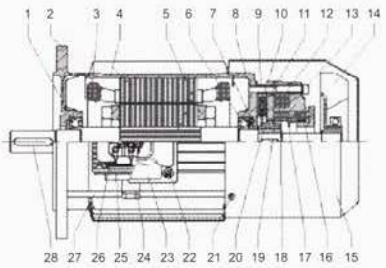
Upon request a hand release with lever can be supplied.

(12) In case of a current cutoff, acting on the lever
(4) The release, connected to the movable anchor
(2) overcomes the springs pressure, thus detaching the movable anchor from the disc friction packing allowing the shaft to turn.

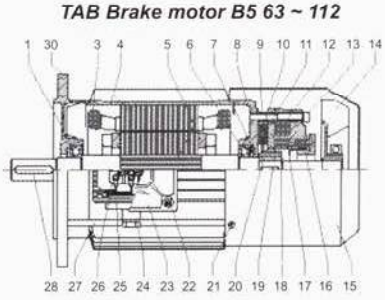
TAB Brake motor B3 63 ~ 112



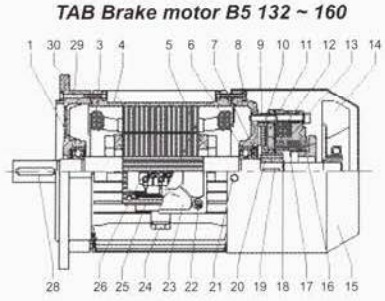
TAB Brake motor B3 132 ~ 160



TAB Brake motor B5 63 ~ 112



TAB Brake motor B5 132 ~ 160



ASYNCHRONOUS THREE-PHASE BRAKE MOTORS with direct current 63-160 Type C FECCL Frame B3 Sizes 63-160, Type FC FECCLFrame B5 Sizes 63-160 Enclosed construction -External ventilation

SPARE PARTS

1. Front bearing
2. Front shield
3. Winding
4. Frame with stator package
5. Shaft with rotor
6. Rear bearing
7. Spring
8. Rear shield
9. Adjusting bush
10. Brake disc
11. Moving anchor
12. Electromagnet coil with diode
13. Fixing screws for brake
14. Cooling fan
15. Fan hood
16. Ring nut
17. Spring
18. See gearing
19. Key brake side
20. Toothed pinion
21. Fixing screw for fan hood
22. Fixing crew for terminal-box
23. Terminal-box
24. able-holder
25. Packing
26. Terminal-block
27. Tie-bolt
28. Coupling side key
29. Fixing screw for shield
30. Flange shield