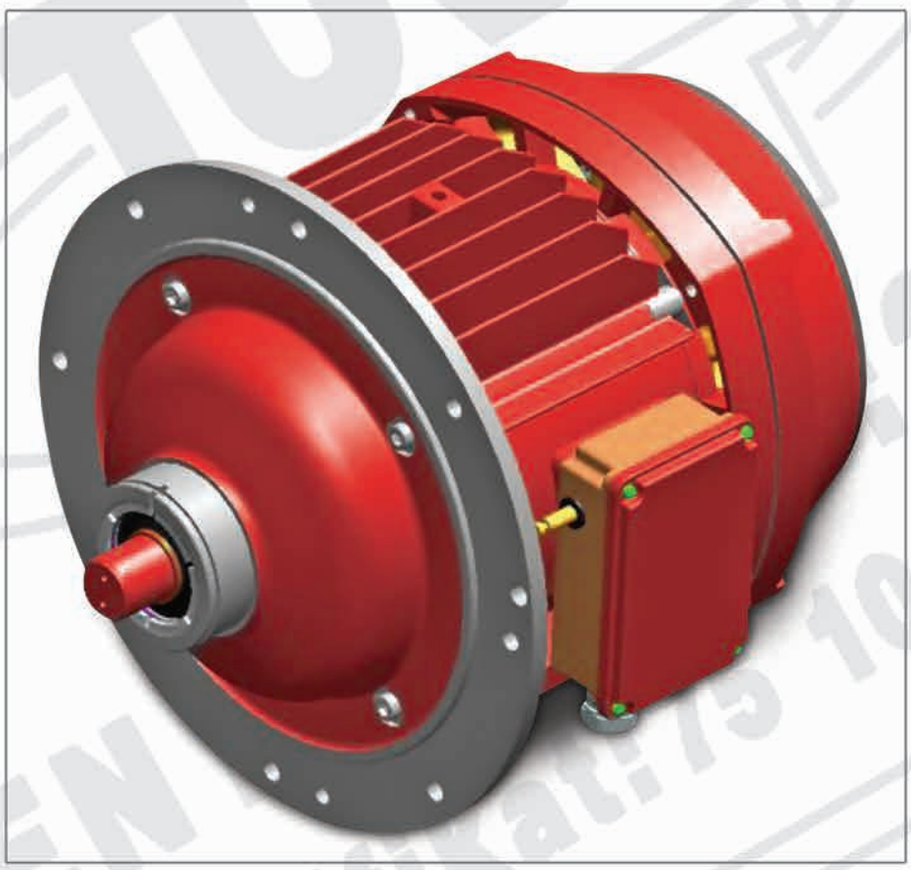
BALKANSKO ECHO

BULGARIA

PRODUCTION OF
ELECTRIC HOISTS, ELECTRIC MOTORS,
CRANES AND CRANE COMPONENTS



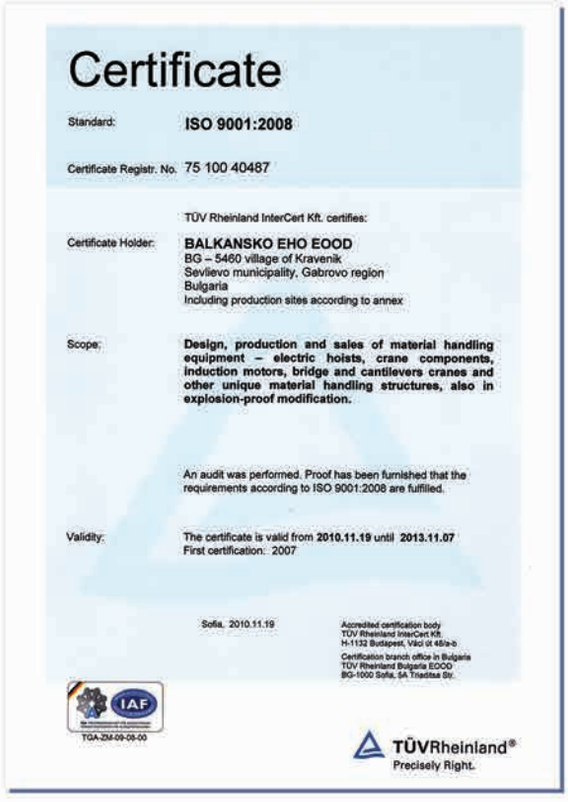
CATALOGUE
BRAKE ELECTRIC MOTORS

WWW.BALKANSKOECHO.COM

BRAKE
ELECTRIC MOTORS

BALKANSKO ECHO

CERTIFICATES



Certificate

Standard: ISO 9001:2008

Certificate Registr. No. 75 100 40487

TÜV Rheinland InterCert Kft. certifies:

Certificate Holder: BALKANSKO EHO EOOD
BG – 5460 village of Kravenik
Sevlievo municipality, Gabrovo region
Bulgaria
Including production sites according to annex

Scope: Design, production and sales of material handling equipment – electric hoists, crane components, induction motors, bridge and cantilevers cranes and other unique material handling structures, also in explosion-proof modification.

An audit was performed. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.

Validity: The certificate is valid from 2010.11.19 until 2013.11.07
First certification: 2007

Sofia, 2010.11.19

Accredited certification body
TÜV Rheinland InterCert Kft.
H-1132 Budapest, Vácí út 48/a-b

Certification branch office in Bulgaria
TÜV Rheinland Bulgaria EOOD
BG-1000 Sofia, 5A Triaditsa Str.

IAF

TGA-ZM-09-08-00

TÜVRheinland®
Precisely Right.

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ГОССТАНДАРТ РОССИИ

СЕРТИФИКАТ СООТВЕТСТВИЯ

8504882

ПРОДУКЦИЯ

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

ИЗГОТОВИТЕЛЬ

СЕРТИФИКАТ ВЫДАН

НА ОСНОВАНИИ

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

Руководитель органа

Эксперт

Сертификат имеет юридическую силу на всей территории Российской Федерации

THE COMPANY

Dear customers, colleagues and friends,

In front of you is the catalogue which contains valuable and useful information about the manufacturing activity and high-quality production of one of the leading companies for travel and hoist systems worldwide.

"Balkansko Echo" company is unique with its three separate factories situated on a total manufacturing area of over 20 000 m^2, more than 600 metal-working machines and more than 550 dedicated and highly qualified specialists, as all this makes the company independent from outer subcontractors and cooperative deliveries.

The company is designing, constructing, manufacturing, assembling and servicing the following:

- electric wire rope hoists of "T" and "MT" series with a lifting capacity of up to 50 t and a lifting height of up to 120 m, which are to be known for their exceptional reliability and durability;
- electric chain hoists, with a lifting capacity from 0,125 t to 2 t;
- single and double girder electric traveling cranes with a control from the cabin and from the ground with a lifting capacity of up to 100 t;
- bracket electric cranes with a lifting capacity from 1 t to 10 t and outrigger length of 10 m;
- induction cone hoist motors, single and double- speeded, with a built-in brake and a thermoprotection from 0,12 kW to 30 kW;

THE COMPANY

- induction, mono-phase and three-phase cylindrical electric motors from 0,55 kW to 37 kW;
- geared motors for setting in motion the running gears of travel and hoist systems;
- lifting capacity limiting devices for all kinds of hoists and crane travel and hoist systems;
- complete spare parts range for all products.

All company's products are manufactured in a general-industry, fire-safe and explosion-proof execution, and they can operate in different climate zones, including chemically aggressive environment.

The company's system for quality management and control has been certified according to ISO 9001:2008 by TÜV Rheinland.

The company's production has been certified according to the requirements of the countries where it is used.

By the end of 2010, "Balkansko Echo" had manufactured and sold more than 20 000 electric hoists, including over 5000 explosion-proof ones, more than 600 cranes and over 50 000 general-industry and explosion-proof electric motors.

The production of "Balkansko Echo" company proves every day its high-tech qualities, security and reliability in different countries, like Russia, Kazakhstan, Belarus, Ukraine, Czech Republic, Slovakia, Turkey, Iran, etc. We are proud to announce that our goods are the only ones in the world with a 36-month warranty.

The aim of this catalogue is to provoke your interest to the goods we manufacture with great responsibility.

By this catalogue we would like to turn to you, our customers, and declare our willingness to make the most suitable product for your manufacturing, and also to assure you that you will make the best choice.

Please use the following telephone numbers for a twenty-four-hour contact with us: +35967302220; +359885000555 ; +359888223344 or you can write to us at balkanskoeho@abv.bg

BRAKE ELECTRIC MOTORS

The electric motor with a cone cage rotor and a built-in brake is a specialized product to drive lifting and running gears. This unique construction combines two products – an induction electric motor and a mechanical brake and it is characterized by high reliability under various operating conditions, flawlessness and safety in braking. These are the main advantages of these electric motors in comparison to other drives. This construction also has the advantages of conventional induction electric motors with a squirrel-cage rotor, namely:

- Compactness;
- Minimal and easy maintenance.

The cone electric motor is designed to withstand the cyclic loads and it is made in unity with the construction of the whole mechanism. This allows the use of common structural elements and gives significant technico-economic advantages to the mechanism.

Depending on the driven mechanism, the electric motors are divided into two groups:

- for lifting gears of wire rope hoists or chain hoists – series КГЕ, КЕ;
- for running gears – series KKE, AKKE, ABE.

The electric motors can be produced as single-speed ones (2p=2, 4, 6) or two-speed ones (2p=8/2, 12/4, 16/4, 24/4, 24/6, 30/4, 30/6).

The main share of the production of "BALKANSKO ECHO" company are the electric motors in an explosion-proof execution Ex d with power of up to 20kW, certified by accredited laboratories.

The electric motors are produced in accordance to the Bulgarian and European standards - БДС 6062-1982; БДС EN 50018+A1; БДС EN 60034-1; EN 60034-5; EN ISO 12100-1; EN ISO 12100-2, etc.

Specific features of the cone electric motors with a brake:

- presence of axial travel of the shaft
- short-term re-operation – S4.

Technical characteristics:

- Modifications to the voltage: 50Hz / 60Hz;
- Class of insulation F. By agreement with the customer – H;
- Degree of protection IP 54, IP 22 of the brake;
- Option for building in thermal protection.

The electric motors can be also manufactured for operation in marine, tropical or special environments – M, T, C.

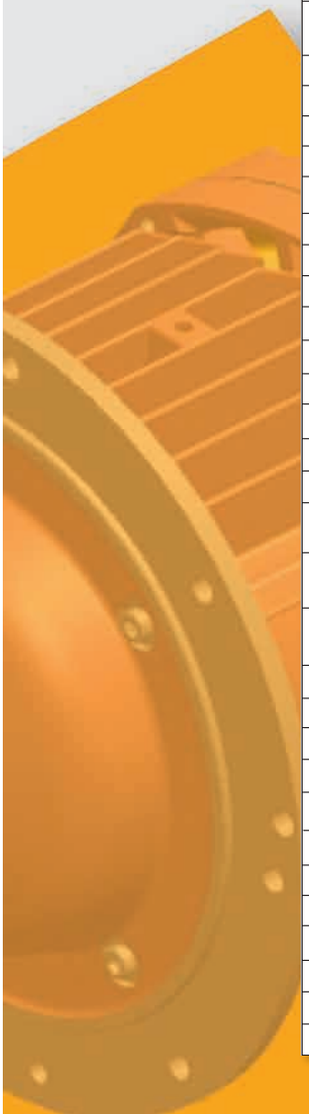
BRAKE ELECTRIC MOTORS

KGE SERIES

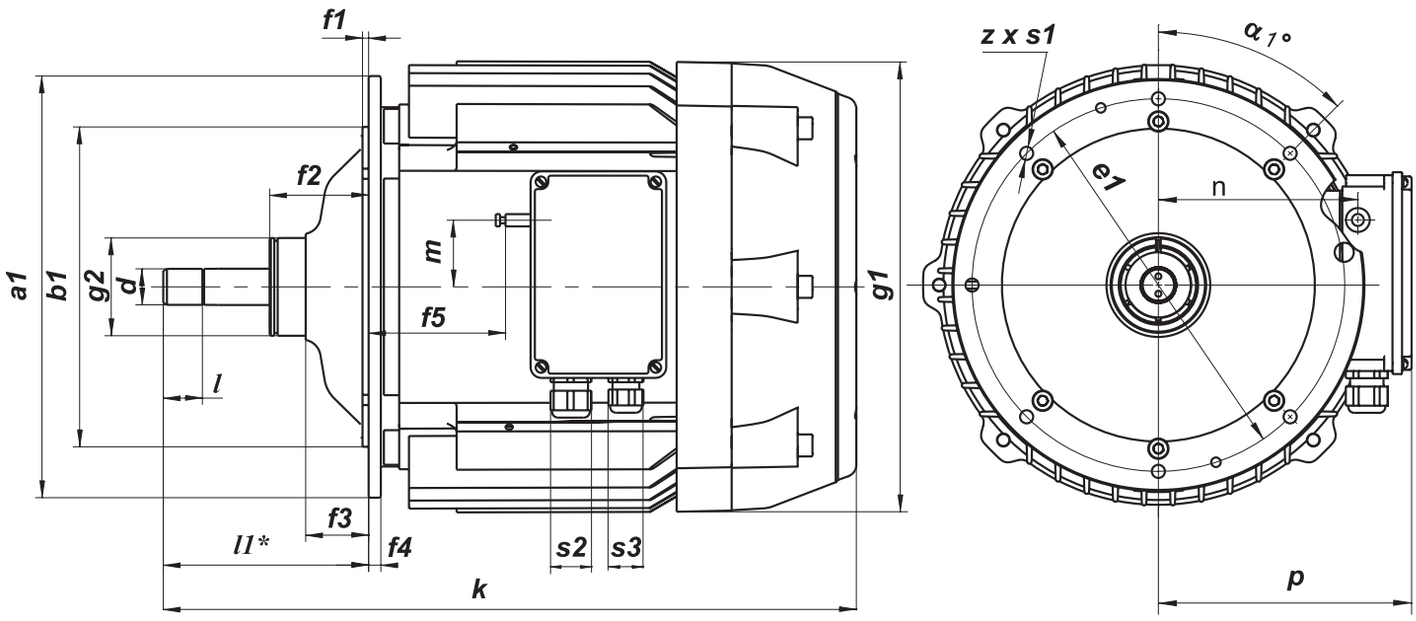
FOR MAIN LIFTING MECHANISM OF ROPE HOISTS SERIES T

Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	*SF*				
kW		**min^{-1}**	**%**	h^{-1}	**A**	**Nm**	**Nm**	**kg**
0,75	КГЕ 1605-6	910	40	240	3,3	16,4	10,8	35
1,5	КГЕ 1608-6 КГЕ II 1608-6	910	40	240	5,8	25,0	23,5	38
3,0	КГЕ 2008-6 КГЕ II 2008-6	920	40	240	11,0	60,5	49	62
4,5	КГЕ 2011-6	920	40	240	12,3	78,0	78	69
8,0	КГЕ 2412-6	920	40	240	24,5	132	105	106
12,5	КГЕ 2714-6 КГЕ 2714Д6	920	40	240	36,0	200	165	155
16,0	КГЕ 3517-6,М6	920	40	240	34,0	380	290	225
25,0	КГЕ 3518Р6,РМ6	950	40	240	47,5	550	450	244
1,1	КГЕ 1605-4	1360	40	240	3,6	15	18	35
2,3	КГЕ 1608-4	1300	40	240	6,0	26	28	38
4,5	КГЕ 2008-4	1400	40	240	12,0	60	70	62
5,5	КГЕ 2011-4	1430	40	240	12,0	80	70	69
7,5	КГЕ 2012-4	1380	40	240	17,0	105	100	79
12,0	КГЕ 2714-4 КГЕ 2714Д4	1430	40	240	28,0	180	130	140
15,5	КГЕ 3517-4,М4	1430	40	240	29,5	240	150	225
22,0	КГЕ 3517Р4,РМ4	1410	40	240	49,0	510	275	225
30,0	КГЕ 3518Р4,РМ4	1440	40	240	55,0	450	360	244
0,15/0,75	КГЕ 2009-30/6	165/930	10/40	240	4,0/4,0	14/15	12	48
0,30/1,5	КГЕ 2110-30/6	165/930	10/40	240	5,2/5,1	30/23	24	57
0,5/3,0	КГЕ 2612-30/6	165/930	10/40	240	10,0/8,5	52	48	106
0,8/4,8	КГЕ 2714-30/6	170/930	10/40	240	15,0/12,0	90	75	136
1,5/8,0	КГЕ 3317-30/6	170/940	10/40	240	30,0/19,0	140	125	201
0,15/1,1	КГЕ 2009-30/4	165/1400	10/40	240	4,0/4,0	14/16	15	48
0,30/2,2	КГЕ 2110-30/4	165/1400	10/40	240	5,5/7,6	30	30	57
0,5/4,5	КГЕ 2612-30/4	165/1400	10/40	240	10,0/11,0	52	55	106
0,8/7,5	КГЕ 2714-30/4	170/1400	10/40	240	15,0/15,0	90	90	136
1,5/12,5	КГЕ 3317-30/4	170/1430	10/40	240	30,0/28,0	140/180	135	201
0,16/0,75	КГЕ 2009-24/6	200/930	25/50	300	3,0/3,4	18	12	48
0,33/1,5	КГЕ 2110-24/6 КГЕ II 2110-24/6	200/930	25/50	300	3,7/5,0	29	24	57
0,7/3,0	КГЕ 2612-24/6 КГЕ II 2612-24/6	210/930	25/50	300	6,0/7,5	52	48	106
1,0/4,8	КГЕ 2714-24/6 КГЕ II 2714-24/6	200/940	25/50	300	11,0/12,0	100	75	136
1,7/8,0	КГЕ 3317-24/6	200/920	25/50	300	15,0/18,0	140	125	201
3,0/13,0	КГЕ 3517-24/6,М24/6	220/960	10/40	240	40,0/30,0	215	180	225
4,0/16,0	КГЕ 3518-24/6,М24/6	210/950	10/40	240	70,0/36,0	360/300	290	244
0,16/1,1	КГЕ 2009-24/4	200/1400	25/50	300	3,0/3,5	16	15	48
0,33/2,2	КГЕ 2110-24/4	200/1400	25/50	300	3,7/6,2	29	30	57
0,7/4,5	КГЕ 2612-24/4	210/1400	25/50	300	6,0/9,5	52	55	106
1,0/7,5	КГЕ 2714-24/4	200/1400	25/50	300	11,0/15,0	100	90	136
1,7/12,5	КГЕ 3317-24/4	200/1430	25/50	300	15,0/23,0	140	135	201
1,9/11,5	КГЕ 3517В24/4,ВМ24/4	225/1410	10/40	240	30,0/25,0	170/180	170	225
2,2/13,0	КГЕ 3517-24/4,М24/4	220/1400	10/40	240	30,0/28,0	200/210	170	225
2,5/15,0	КГЕ 3517N24/4,NM24/4	220/1400	10/40	240	34,0/32,0	215/225	190	225
4,0/24,0	КГЕ 3518-24/4,М24/4	210/1400	10/40	240	70,0/48,0	360/380	290	244



OVERALL DIMENSIONS



Type	Dimensions																		Shaft	
	a1	b1	e1	l1*	f1	f2	f3	f4	f5	g1	g2	m	n	k	p	z x s1	α 1	s2	s3	d	l
КГЕ 1605 КГЕ 1608 КГЕ II 1608	260	185	226	109 125 95	4	73	44,4	12	18 38 38	230	75	16,5	120	350 382 352	161	8x9	45	Pg16	Pg16	Ев25х1,5х16S3аХ	27
КГЕ 2008 КГЕ II 2008	345	262	312	140 127	5	83	51,5	10	56,5	275	80	16,5	126	442 431	167	7x11	45			Ев30х1,5х18S3аХ	32
КГЕ 2011-4 КГЕ 2011-6 КГЕ 2012	345	262	312	140 168 168	5	83	51,5	10	62,5 62,5 92	275	80	26,5	126	454 482 512	171	7x11	45	Pg21	Pg16		
КГЕ 2412	*418*	325	380	146	5	110	75	12	68	328	105	26,5	145	491	190	8x13	45			Ев40х2,0х18S3аХ	38
КГЕ 2009 КГЕ 2110 КГЕ II 2110	260	185	226	109 125 95	4	73	44,4	8	43 52,5 52,5	278	75	35	129	389 422 392	174	7x9	45			Ев25х1,5х16S3аХ	27
КГЕ 2612 КГЕ II 2612	*345*	262	312	140 127	5	81	51,5	10	98	328	80	55	155	508 495	200	7x11	45			Ев30х1,5х18S3аХ	32
КГЕ 2714-6 *КГЕ 2714Д6*	505	365	460	215	6	145	102	16	70,5 67	376	120	0 11	185 173	596	251 239	11x15	30			Ев45х2,5х16S3аХ	60
КГЕ 2714-4 *КГЕ 2714Д4*	*418*	325	380	146	5	110	75	12	70,5 67	376	105	0 11	185 173	527	251 239	7x13	45			Ев40х2,0х18S3аХ	38
КГЕ 2714 КГЕ II 2714	*345*	262	312	168 127	5	81	51,5	10	112	366	80	54,5	167	566 525	212	7x11	45			Ев30х1,5х18S3аХ	32
КГЕ 3317	*418*	325	380	146	5	110	75	12	70	418	105	0	191	579	257	8x13	45			Ев40х2,0х18S3аХ	38
КГЕ 3517 КГЕ 3518	505	365	460	215	6	145	102	16	70	438	120	0	201	631 637	267	11x15	30			Ев45х2,5х16S3аХ	60
КГЕ 3517М КГЕ 3518М	505	365	460	215	6	145	102	16	70	438	120	0	201	631 637	267	11x15	30	Pg21	Pg21	Ев45х2,5х16S3аХ	60

*At operation mode. At idle mode the maximal tolerance is 2.5 mm

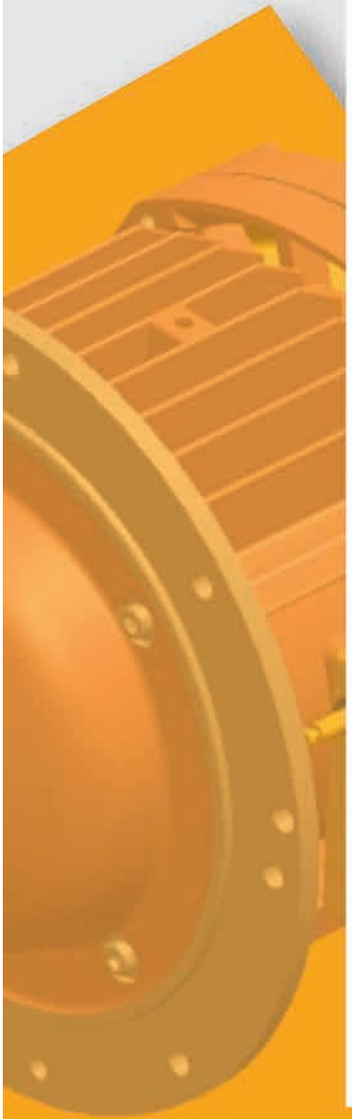
BRAKE ELECTRIC MOTORS

KE SERIES

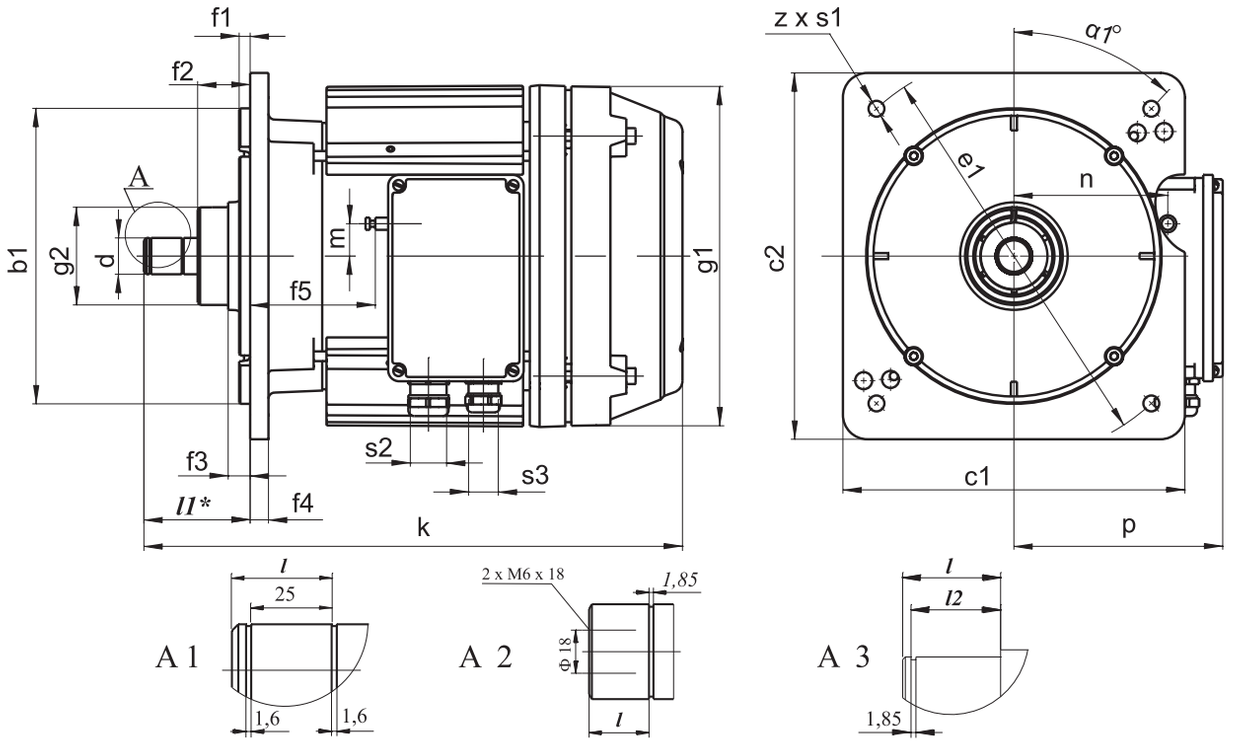
FOR MAIN LIFTING MECHANISMS OF ROPE HOISTS SERIES MT

Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min^{-1}	%	h^{-1}	A	Nm	Nm	kg
2.3	KE 1608 - 4 KE 1608M4	1300	40	240	6.0	26	28	38
4.5	KE 2008 - 4 KE 2008M4	1400	40	240	12.0	60	70	62
5.5	KE 2011 - 4 KE 2011M4	1430	40	240	12.0	80	70	69
7.5	KE 2012 - 4 KE 2012M4	1380	40	240	17.0	105	100	85
12.0	KE 2714 - 4 KE 2714M4 KE 2714D4 KE 2714DM4	1430	40	240	28.0	180	130	139
15.5	KE 3517-4 KE 3517M4 KE 3517A4 KE 3517AM4	1430	40	240	29.5	240	150	240 240 230 230
22.0	KE 3517P4 KE 3517PM4 KE 3517PA4 KE 3517PAM4	1410	40	240	49.0	510	275	240 240 230 230
30.0	KE 3518P4 KE 3518PM4	1440	40	240	55.0	450	360	250
12.5	KE 2714-6 KE 2714A6 KE 2714D6 KE 2714DA6	920	40	240	36.0	200	165	182 162 182 162
16.0	KE 3517-6 KE 3517M6	920	40	240	34.0	380	290	240
25.0	KE 3518P6 KE 3518PM6	950	40	240	47.5	550	450	250
1.0/3.0	KE 2011 - 12/4 KE 2011M12/4	420/1410	20/40	240	8.5/9.0	50/55	40	73
1.5/4.5	KE 2114 - 12/4 KE 2114M12/4	420/1410	20/40	240	10.5/11.0	65/70	55	82
0.48/2.9	KE 2110 - 24/4 KE 2110M24/4	200/1400	20/40	240	3.7/6.2	29	30	63
1.0/6.0	KE 2612 - 24/4 KE 2612M24/4	210/1400	20/40	240	7.0/13.5	90/120	75	106
1.3/8.0	KE 2714 - 24/4 KE 2714M24/4 KE 2714B24/4	200/1400	10/40	240	12.0/16.0	100	95	145
1.7/12.5	KE 3317-24/4 KE 3317B24/4 KE 3317M24/4 KE 3317A24/4 KE 3317AM24/4	200/1430	10/40	240	15.0/23.0	140	135	230 203 203 217 217
3.0/13.0	KE 3517-24/6 KE 3517M24/6 KE 3517A24/6 KE 3517AM24/6	220/960	10/40	240	40.0/30.0	215	180	240 240 230 230
2.2/13.0	KE 3517-24/4 KE 3517M24/4 KE 3517A24/4 KE 3517AM24/4	220/1400	10/40	240	30.0/28.0	200/210	170	230
2.5/15.0	KE 3517NA24/4 KE 3517NAM24/4	220/1400	10/40	240	34.0/32.0	215/225	190	230
4.0/16.0	KE 3518-24/6 KE 3518M24/6 KE 3518A24/6 KE 3518AM24/6	210/950	10/40	240	70.0/36.0	360/300	290	252 252 242 242
3.3/20.0	KE 3518NM24/4	210/1400	10/40	240	55.0/42.0	300/320	290	252
4.0/24.0	KE 3518-24/4 KE 3518M24/4 KE 3518A24/4 KE 3518AM24/4	210/1400	10/40	240	70.0/48.0	360/380	290	252 252 242 242



OVERALL DIMENSIONS



Type	Dimensions																			Shaft			
	b1	c1	c2	e1	l1*	f1	f2	f3	f4	f5	g1	g2	m	n	k	p	z x s1	α1	s2	s3	A	d	l	l2
KE 1608 - 4	242	280	300	330	87	9	43	18	12	62	230	80	16,5	120	368	160	4 x13	43	Pg16	Pg16	A1	EB30x1,25x9g	31	-
KE 1608M4										-			-	-										
KE 2008 - 4									14	96	275		16,5	126	431	167								
KE 2008M4										-			-	-										
KE 2011 - 4;-12/4										102			26,5	126	441	172			Pg21	Pg16				
KE 2011M4; M12/4										-			-	-										
KE 2110-24/4										76			35	129	407									
KE 2110M24/4										-			-	-										
KE 2114-12/4										134			26,5	128	475									
KE 2114M12/4										-			-	-										
KE 2612-24/4										116	328		55	155	475	200								
KE 2612M24/4										-			-	-										
KE 2714B24/4										134	366		54,5	167	508	212								
KE 2012 - 4	292	340	340	370	86	10	47	18	16	126	275	105	26,5	128	470	172	4 x15	45	Pg21	Pg16	A2	EB40 x 2 x 9g	25	
KE 2012M4										-			-	-										
KE 2714 - 4										120	376		0	185	521	251								
KE 2714M4										-			-	-										
KE 2714 D4										117			11	173		239								
KE 2714DM4										-			-	-										
KE 2714-24/4										134	366		54,5	167	507	212								
KE 2714M24/4										-			-	-										
KE 3317B24/4										105	418		0	191	560	257								
KE 3317M24/4										-			-	-										
KE 2714A6	362	410	410	440	114	18	57	22	19	125	376	120	0	185	551	251	4 x19	45	Pg21	Pg16	A3	EB45 x 2 x 9g	34	29,8
KE 2714DA6										122			11	173		239								
KE 3317A24/4										105	418		0	191	585	257								
KE 3317AM24/4										-			-	-										
KE 3517A24/6;24/4 KE 3517NA24/4 KE 3517P A4										114	465				574	267								
KE 3518A24/6;24/4										119					580									
KE 3517AM24/6;24/4 KE 3517NAM24/4 KE 3517P AM4										114					574				Pg21	Pg21				
KE 3518AM24/6;24/4										119					580									
KE 2714-6	425	470	470	520	117	25	62	22	22	120	376	130	0	185	550	251	4 x19	45	Pg21	Pg16	A3	EB45 x 2 x 9g	37	33,8
KE 2714D6										117			11	173		239								
KE 3317-24/4										105	418		0		587	257								
KE 3517-6 ; 4 KE 3517P4 ; KE 3517-24/6;-24/4										110	465		0	201	573	267								
KE 3518-24/6;-24/4 KE 3518P4;P6										115					579									
KE 3517M6 ;M4 KE 3517PM4 ; KE 3517M24/6;M24/4										110					573				Pg21	Pg21				
KE 3518M24/6;M24/4 KE 3518PM4;PM6 KE 3518NM24/4										115					579									

*At operation mode. At idle mode the maximal tolerance is 2.5 mm

BRAKE ELECTRIC MOTORS

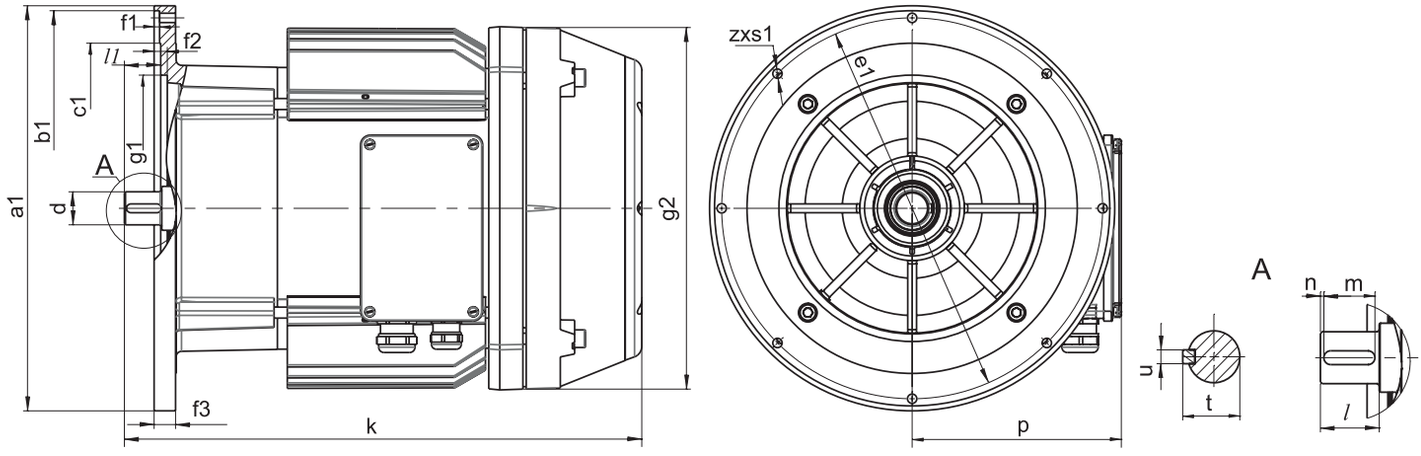
MKE SERIES

FOR THE MAIN LIFTING MECHANISM OF ROPE HOISTS OF MPM SERIES

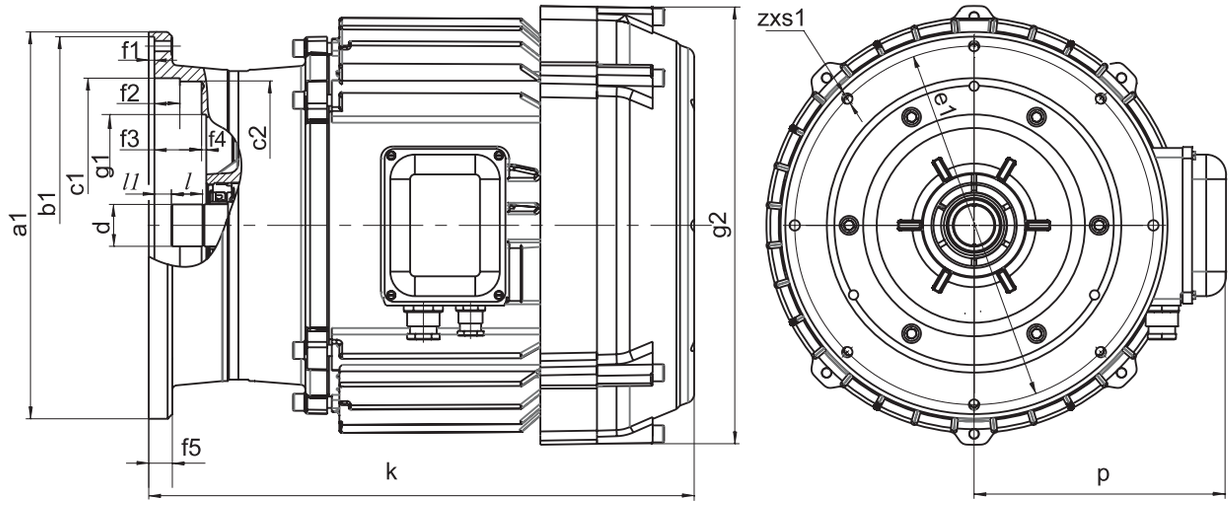
Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min^{-1}	%	sw/h	A	Nm	Nm	kg
0,75	MKE 1605-6	910	40	240	3,3	16,4	10,8	34
1,5	MKE 1608-6	910	40	240	5,8	25	23,5	40
3,0	MKE 2008-6	920	40	240	11,0	60,5	49	67
4,5	MKE 2011-6	920	40	240	12,3	78	78	76
8,0	MKE 2412-6	920	40	240	24,5	132	105	111
16,0	MKE 3517-6	930	40	240	55	330	340	235
16,0	MKTE 3517-6	930	40	240	55	330	340	238
1,1	MKE 1605-4	1360	40	240	3,6	15	18	34
2,3	MKE 1608-4	1300	40	240	6,0	26	28	40
4,5	MKE 2008-4	1400	40	240	12,0	60	70	67
5,5	MKE 2011-4	1430	40	240	12,0	80	70	76
7,5	MKE 2012-4	1380	40	240	17,0	105	100	84
12,0	MKE 2714-4	1430	40	240	28,0	180	130	151
22,0	MKE 3517P4	1400	40	240	51	380	290	233
24,0	MKTE 3517P4	1400	40	240	51	380	330	233
0,33/1,5	MKE 2110-24/6	200/930	25/50	300	3,7/5,0	29	24	58
0,7/3,0	MKE 2612-24/6	210/930	25/50	300	6,0/7,5	52	48	106
1,0/4,8	MKE 2714-24/6	200/940	25/50	300	11,0/12,0	100	90	140
1,7/8,0	MKE 3317-24/6	200/920	25/50	300	15,0/18,0	140	125	213
4.0/16.0	MKE 3518-24/6	210/950	10/40	240	65,0/36,0	360/300	290	250
4,0/16,0	MKTE 3518-24/6	210/950	10/40	240	65,0/36,0	360/300	290	253
0,33/2,2	MKE 2110-24/4	200/1400	25/50	300	3,7/6,2	29	30	58
0,7/4,5	MKE 2612-24/4	210/1400	25/50	300	6.0/9.5	52	55	106
1,0/7,5	MKE 2714-24/4	200/1400	25/50	300	11,0/15,0	100	90	140
1,7/12,5	MKE 3317-24/4	200/1430	25/50	300	15,0/23,0	140	135	213
4,0/24,0	MKE 3518-24/4	210/1400	10/40	240	65,0/48,0	360/380	290	250
4,0/24,0	MKTE 3518-24/4	210/1400	10/40	240	65,0/48,0	360/380	290	253

OVERALL DIMENSIONS



Type	Dimensions													Shaft					
	a1	b1	e1	c1	ll	f1	f2	f3	g1	g2	k	p	z x s1	d	l	t	u	m	n
MKE 1605 MKE 1608	225	215	203	-	28	5	10	15	190	230	328 349	160	8 x 8,5	20	30	22.5	6	25	2.5
MKE 2110									170	275	394	174							
MKE 2008	302	294	283	246	31	5	12	20	212	275	417	167	8 x 8,5	25	33	28	8	28	3
MKE 2011											427	171							
MKE 2012											457	173							
MKE 2612							11	18	218	328	485	200							
MKE 2714										366	510	212							
MKE 2412	370	359	346	300	32	5	12	19	242	328	470	190	8 x 8,5	30	34	33	8	31,5	2
MKE 2714-4								20		375	520	239							
MKE 3317								20		418	580	257							



Type	Dimensions																Shaft	
	a1	b1	e1	c1	c2	l1	f1	f2	f3	f4	f5	g1	g2	k	p	z x s1	d	l
MKE 3517	410	400	384	330	-	22	6	1	-	-	24	265	465	560	267	8 x 11	45 x 2,5 x 9g	16
MKE 3518														566				
MKTE 3517	410	400	380	312	294	18	6	27	50	5	24	235	465	560	267	8 x 11	45 x 2,5 x 9g	33
MKTE 3518														566				

BRAKE ELECTRIC MOTORS

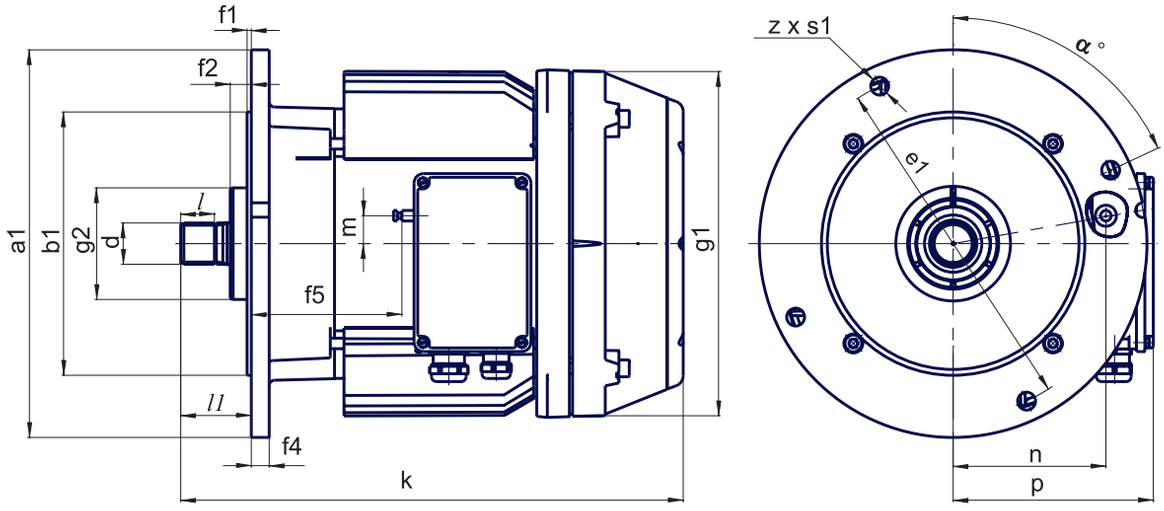
KBE SERIES

FOR THE MAIN LIFTING MECHANISM OF ROPE HOISTS OF VAT TYPE

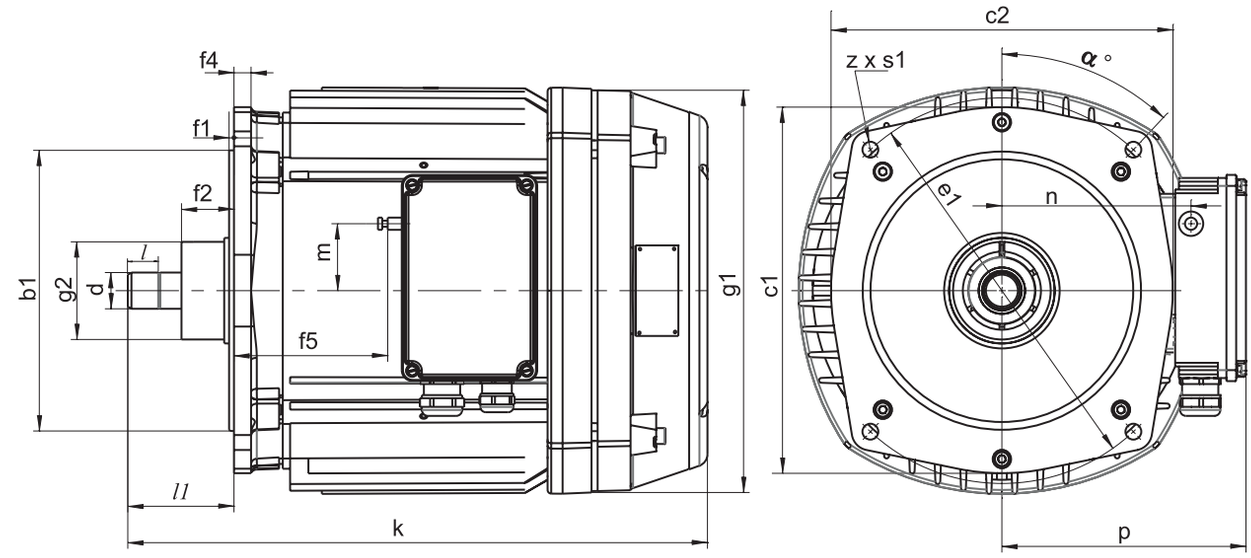
Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min^{-1}	%	sw/h	A	Nm	Nm	kg
0,75	KBE 0501-6	910	40	240	3,3	16,4	10,8	33
1,5	KBE 1001-6	910	40	240	5,8	25,0	23,5	39
3,0	KBE 2002-6	920	40	240	11,0	60,5	49	54
4,5	KBE 3002-6	920	40	240	12,3	78,0	78	64
8,0	KBE 4002-6	920	40	240	24,5	132	105	105
16.0	KBE 5002-6	930	40	240	55	330	340	230
12.5	KBE 6002B6	930	40	240	40	330	340	230
16.0	KBE 6002-6	930	40	240	34.0	330	290	233
22.0	KBE 6002P6	930	40	240	42.0	360	340	250
1,1	KBE 0501-4	1360	40	240	3,6	15	18	30
2,3	KBE 1001-4	1300	40	240	6,0	26	28	39
4,5	KBE 2001-4	1400	40	240	12,0	60	70	65
7,5	KBE 3001-4	1380	40	240	17,0	105	100	82
12,0	KBE 4001-4	1430	40	240	28,0	180	130	144
22,0	KBE 5001-4	1400	40	240	51	510	300	233
22,0	KBE 6001B4	1410	40	240	49,0	510	300	233
25,0	KBE 6001-4	1400	40	240	51	510	330	233
30,0	KBE 6003-4	1400	40	240	55	400	360	250
34,0	KBE 6003P4	1400	30	180	58,0	410	360	250
0,33/1,5	KBE 1003-24/6	200/930	25/50	300	3,7/5,0	29	24	57
0,7/3,0	KBE 2003-24/6	210/930	25/50	300	6,0/7,5	52	48	101
0,75/3,0	KBE 2004-24/6	210/920	15/40	240	11,0/10.0	52	48	76
1,0/4,8	KBE 3003-24/6	200/940	25/50	300	11,0/12,0	100	90	122
1,7/8,0	KBE 4003-24/6	200/920	25/50	300	15,0/18,0	140	125	198
4.0/16.0	KBE 5003-24/6	210/950	10/40	240	76,0/39,0	360/300	290	253
3,0/13,0	KBE 6001-24/6	220/960	10/40	240	40,0/30,0	215	180	230
4,0/16,0	KBE 6003-24/6	210/950	10/40	240	70,0/36,0	360/300	290	252
5,0/20,0	KBE 6003P24/6	200/920	15/30	180	78,0/43,0	360/300	310	252
0,33/2,2	KBE 1003-24/4	200/1400	25/50	300	3,7/6,2	29	30	57
0,7/4,5	KBE 2003-24/4	210/1400	25/50	300	6.0/9.5	52	55	102
0,75/4,5	KBE 2004-24/4	210/1420	15/40	240	8.5/10.5	65.0/60.0	70	76
1,0/7,5	KBE 3003-24/4	200/1400	25/50	300	11,0/15,0	100	90	122
1,7/12,5	KBE 4003-24/4	200/1430	25/50	300	15,0/23,0	140	135	198
4,0/24,0	KBE 5003-24/4	210/1400	10/40	240	70,0/48,0	360/380	290	253
4,0/24,0	KBE 6003-24/4	210/1400	10/40	240	70,0/48,0	360/380	290	252

OVERALL DIMENSIONS



Type	Dimensions																Shaft	
	a1	b1	e1	l1	f1	f2	f4	f5	g1	g2	m	n	k	p	z x s1	α	d	l
KBE 0501	221		203					49	376		16.5	120	335	160		15		
KBE 1001	221	180	203	67	4	20	12	69	328	74	16,5	120	355	160	4 x 9	15	Ев25x1,5x16 S3aX	25
KBE 1003	250		230					74.5	418		35	129	387	174		45		
KBE 2001;2002								92,5			16,5	126	427					
KBE 2004	282	230	254	87	4	44	12	129	275	78	26,5	128	471	172	4 x 13	60	Ев30x1.5x18 S3aX	32
KBE 3001								127			26,5	128	431					
KBE 3002								98,5			26,5	126	437					
KBE 4001			330					137	376		0	185	508	251		65		
KBE 4002	368	250	330	67	4	20	17	133	328	108	26,5	145	477	190	4 x 17	65	Ев40x2,0x18 S3aX	32
KBE 4003			336					127	418		0	191	557	257		30		



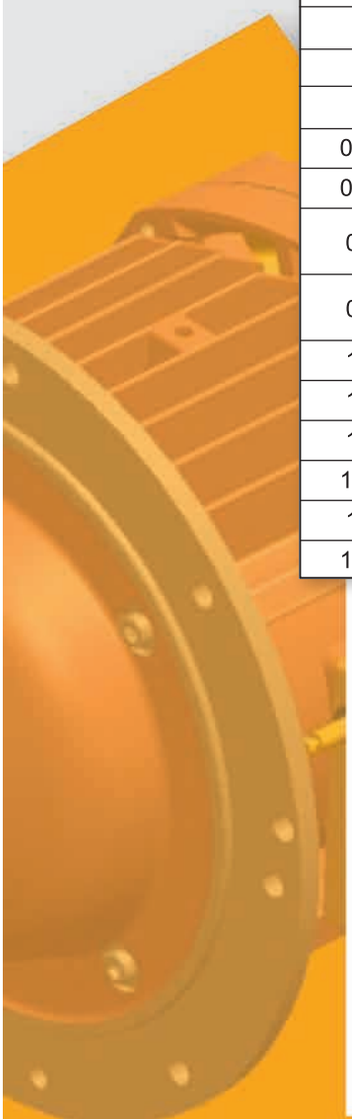
Type	Dimensions																Shaft	
	b1	c1	c2	e1	l1	f1	f2	f4	f5	g1	g2	m	n	k	p	z x s1	α	d	l
KBE 2003	230	300	280	316	87	4	43	14	116	333	80	55	155	473	200	4 x 13	43	Ев30x1,5x18 S3aX	25
KBE 3003									67	366		0	166	500	232				
KBE 5001;5002	362	415	415	440	67	5	8	18	164	465	120	0	201	576	267	4 x 19	45	Ев45x2.5x16 S3aX	54
KBE 5003									169				199	582					
KBE 6001;6002									164				201	576					
KBE 6003									169				199	582					

АКЕ, БКЕ SERIES

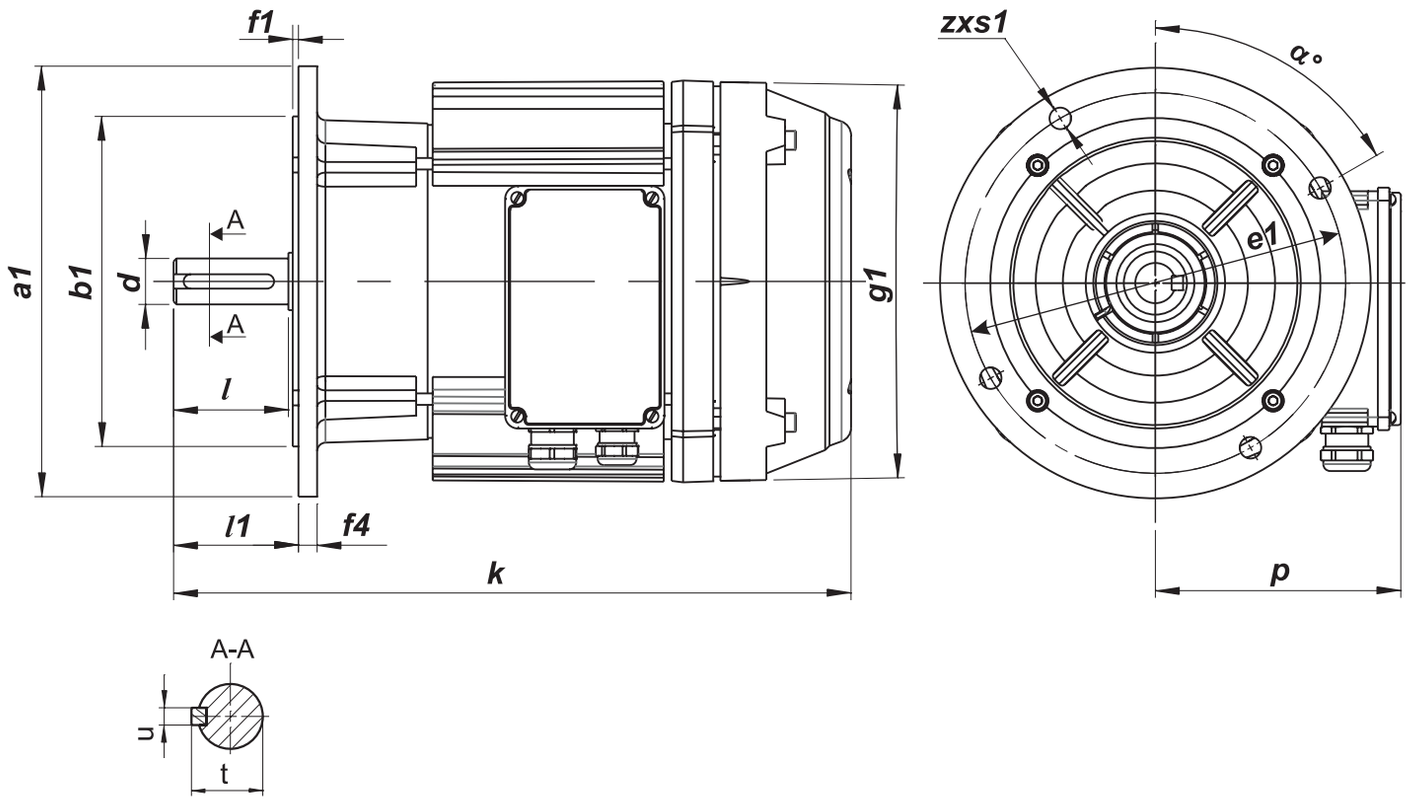
CONICAL INDUCTION ELECTRIC MOTORS WITH INTEGRATED BRAKE FOR THE MAIN LIFTING MECHANISM OF ROPE HOISTS

Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD *	SF **				
kW		min^{-1}	%	sw/h	A	Nm	Nm	kg
0,75	АКЕ 1605-6	910	40	240	3,3	16,4	10,8	35
1,1	АКЕ 1605-4	1360	40	240	3,6	15,0	18.0	35
1.5	АКЕ 1608-6	910	40	240	5,8	25.0	23.5	40
2.3	АКЕ 1608-4	1300	40	240	6.0	26.0	28.0	40
3,0	АКЕ 2008-6	920	40	240	11,0	60,5	49,0	67
4,5	АКЕ 2008-4	1400	40	240	12,0	60.0	70.0	67
4,5	АКЕ 2011-6	920	40	240	12,3	78,0	78,0	70
5,5	АКЕ 2011-4	1430	40	240	12,0	80.0	70.0	70
8,0	АКЕ 2412-6	920	40	240	24,5	132,0	105,0	102
12,5	АКЕ 2714-6	920	40	240	36,0	200.0	165.0	148
0,33/1,5	АКЕ 2110-24/6	200/930	25/50	300	3,7/5,0	29.0	24.0	64
0,33/2,2	АКЕ 2110-24/4	200/1400	25/50	300	3,7/6,2	29.0	30.0	64
0,7/3,0	АКЕ 2612-24/6 БКЕ 2612-24/6	210/930	25/50	300	6,0/7,5	52.0	48.0	103
0,7/4,5	АКЕ 2612-24/4 БКЕ 2612-24/4	210/1400	25/50	300	6,0/9,5	52.0	55.0	103
1,0/4,8	АКЕ 2714-24/6	200/940	25/50	300	11,0/12,0	100.0	75.0	140
1,0/7,5	АКЕ 2714-24/4	200/1400	25/50	300	11,0/15,0	100.0	90.0	140
1,7/8,0	АКЕ 331724/6	200/920	25/50	300	15,0/18,0	140.0	125.0	212
1,7/12,5	АКЕ 3317-24/4	200/1430	25/50	300	15,0/23,0	140.0	135.0	212
1,7/8,0	БКЕ 331724/6	200/920	25/50	300	15,0/18,0	140.0	125.0	212
1,7/12,5	БКЕ 3317-24/4	200/1430	25/50	300	15,0/23,0	140.0	135.0	212



OVERALL DIMENSIONS



Type	Dimensions											Shaft			
	a1	b1	e1	f1	f4	l1	k	g1	p	zxs1	α°	d	l	t	u
AKE 1605 AKE 1608	250	180	215	4	12	67	358 378	230	160	4x13	60	28	60	31	8
AKE 2008 AKE 2011	300	230	265	4	13	87	462 472	275	167	4x15	60	32	80	35,3	10
AKE 2412	350	250	300	5	13	87	510	328	190	4x19	60	38	80	41	10
AKE 2714-6	350	250	300	5	13	119	595	376	251	4x17	15	42	110	45	12
AKE 2110	250	180	215	4	14	67	425	278	174	4x15	45	28	60	31	8
AKE 2612 БКЕ 2612	300	230	265	4	14	87	445	328	200	4x15	45	38 32	80	41	10
AKE 2714- двуск.	300	230	265	4	14	87	471	366	212	4x15	45	38	80	41	10
AKE 3317 БКЕ 3317	350	250	300	5	17 13	119 87	659 627	418	257	4x17	45	42 38	110 80	45 41	12 10

BRAKE ELECTRIC MOTORS

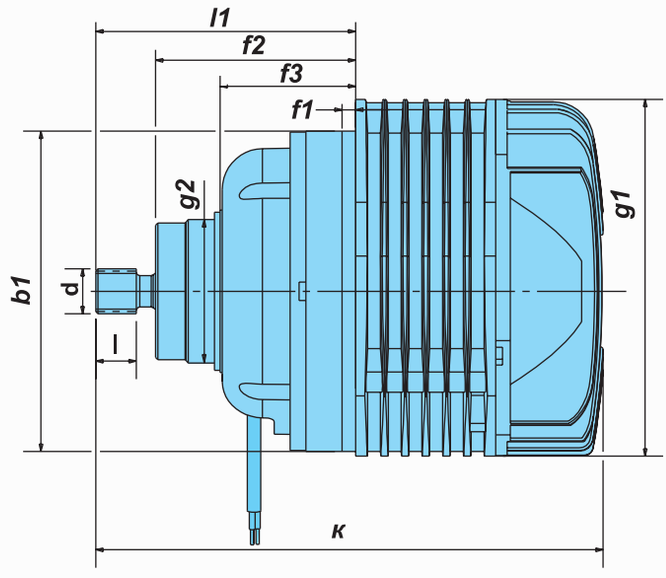
КГЕ SERIES

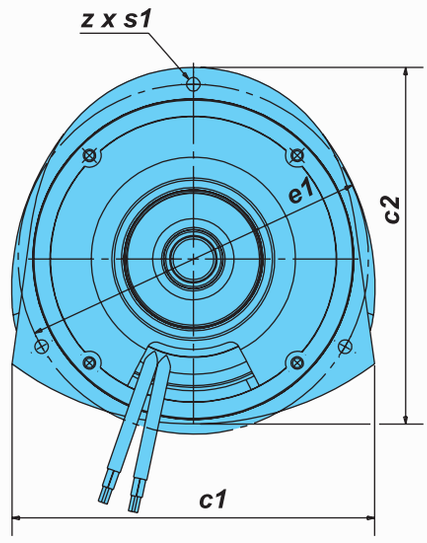
FOR MAIN LIFTING MECHANISM OF CHAIN HOISTS

Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min^{-1}	%	h^{-1}	A	Nm	Nm	G
0,36	КГЕ 1405-4S	1320	40	240	1,1	4,0	3,7	8,7
0,55	КГЕ 1405P4S	1320	40	240	1,9	10,0	6,8	9,0
0,11/0,36	КГЕ 1405-12/4S	400/1320	10/40	240	1,9/1,2	4,8/4,0	3,7	9,2
0,76	КГЕ 1606-4S	1375	40	240	2,5	11,0	10,0	14,5
1,1	КГЕ 1606P4S	1375	40	240	2,2	16,0	9,0	15
0,24/0,76	КГЕ 1606-12/4S	430/1370	10/40	240	3,6/2,5	9,0	9,5	14,5

OVERALL DIMENSIONS





Type	Dimensions												Shaft	
	к	c1	c2	l1	f2	f3	f1	b1	g2	g1	e1	z x s1	d	l
1405	226	161	158	115	88,5	60	6	142	63,5	155	155	3 x 6	20 ; Z =14; m =1,25	18
1606	265	252	182	145	110	78	8	175	69,5	186	186	4 x 7	20,75 ;Z =14; m =1,25	20

BRAKE ELECTRIC MOTORS

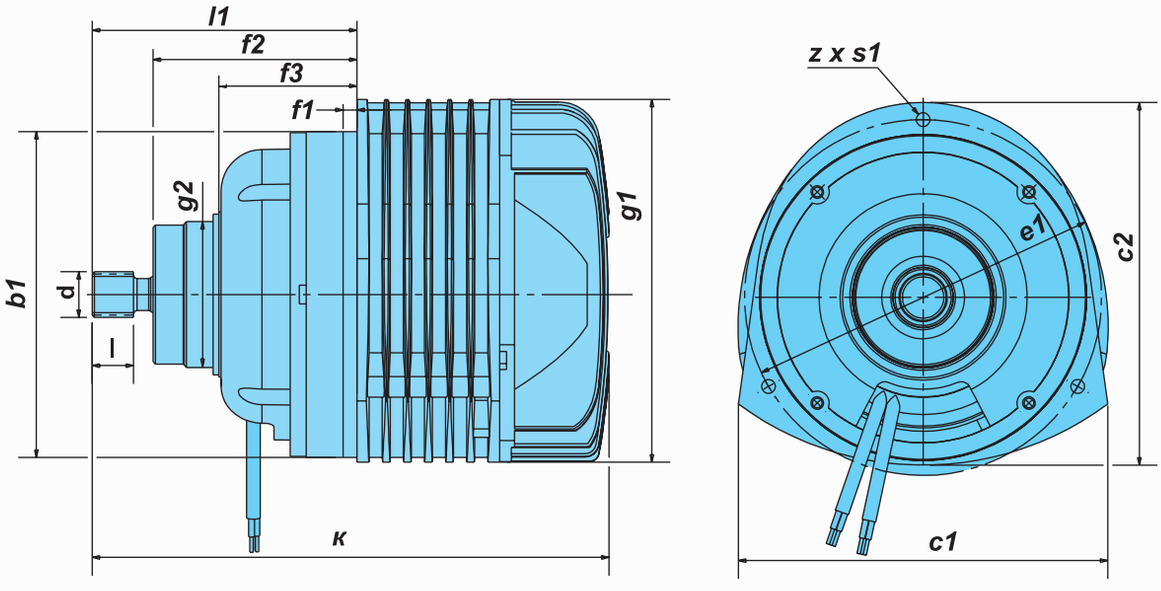
КГСЕ SERIES

WITH FRICTION SLIP CLUTCH FOR THE MAIN LIFTING MECHANISM OF CHAIN HOISTS

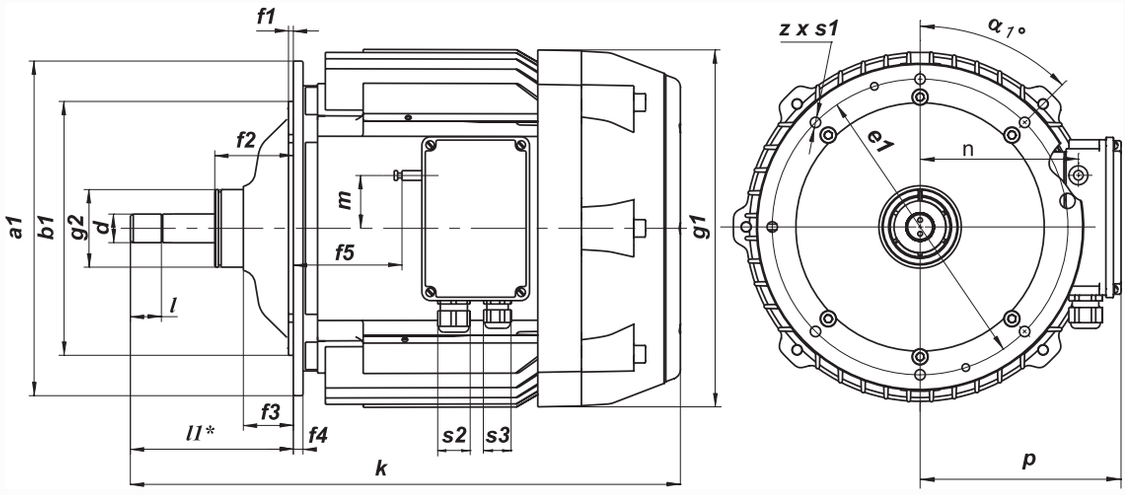
Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Friction torque	Weight
			CD	SF					
kW		min^{-1}	%	h^{-1}	A	Nm	Nm	Nm	kg
0,36	КГСЕ 1405-4S	1320	40	240	1,1	4,0	3,7	3,7÷4,0	8,7
0,11/0,36	КГСЕ 1405-12/4S	400/1320	10/40	240	1,9/1,2	4,8/4,0	3,7	3,7÷4,0	9,2
0,76	КГСЕ 1606-4S	1375	40	240	2,5	11,0	10,0	7,5÷8,0	14,5
0,24/0,76	КГСЕ 1606-12/4S	430/1370	10/40	240	3,6/2,5	9,0	9,5	7,5÷8,0	14,5
1,5	КГСЕ 1608-6	910	40	240	5,8	25,0	23,5	22 ÷23	40
0,33/1,5	КГСЕ 2110-24/6	200/930	25/50	300	3,7/5,0	29,0	24,0	22 ÷23	57

OVERALL DIMENSIONS



Type	Dimensions												Shaft	
	к	c1	c2	l1	f2	f3	f1	b1	g2	g1	e1	z x s1	d	l
1405	226	161	158	115	88,5	60	6	142	63,5	155	155	3 x 6	20 ; Z =14; m =1,25	18
1606	265	252	182	145	110	78	8	175	69,5	186	186	4 x 7	20,75 ;Z =14; m =1,25	20



Type	Dimensions																		Shaft	
	a1	b1	e1	l1*	f1	f2	f3	f4	f5	g1	g2	m	n	k	p	z x s1	α1	s2	s3	d	l
1608	260	185	226	95	4	73	44,4	12	38	230	75	16,5	120	354	161	8x9	45	Pg16	Pg16	Ев25x1,5x16S3aX	27
2110	260	185	226	95	4	73	44,4	8	52,5	278	75	35	129	393	174	7x9	45	Pg21	Pg16		

BRAKE
ELECTRIC MOTORS

KE - Ex SERIES

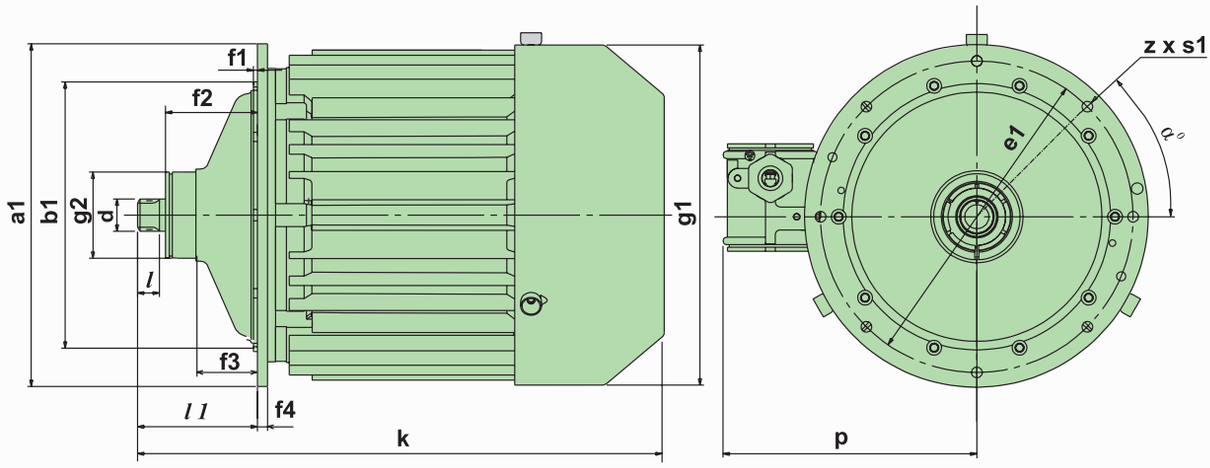
1Ex dII B T5Gb; Ex tb III B T100˚C Db
1Ex dII C T5Gb; Ex tb III C T100˚C Db

FOR MAIN LIFTING MECHANISM OF EXPLOSION-PROOF ROPE HOISTS SERIES BT, BMT

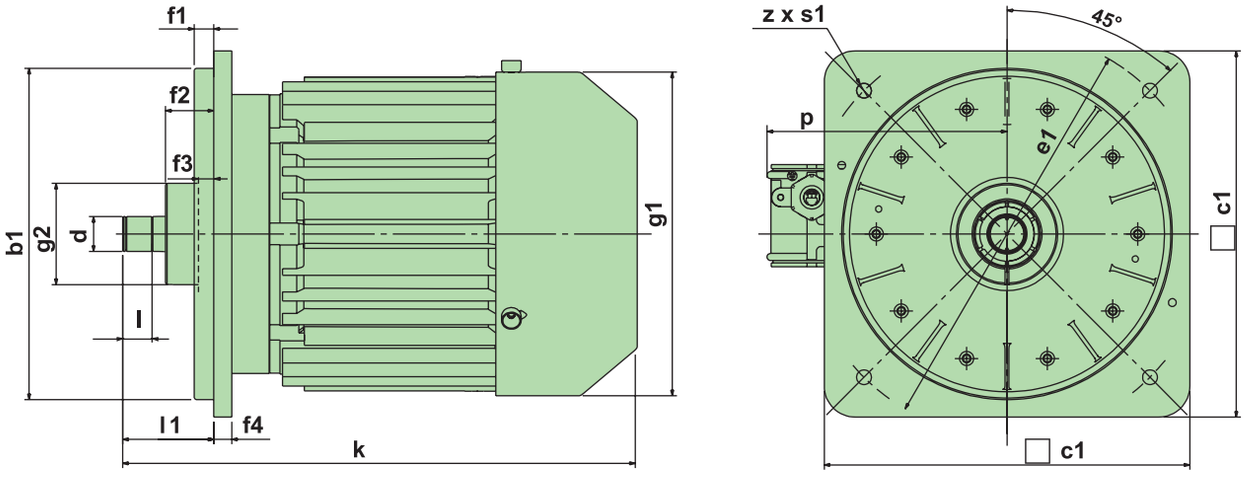
Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min^{-1}	%	h^{-1}	A	Nm	Nm	kg
1,5	KE 1608-6 Ex KE 1608K6 Ex	910	40	240	5,8	25	23,5	47
3,0	KE 2008-6 Ex KE 2008K6 Ex	930	40	240	8,6	62	62	70
4,5	KE 2011-6 Ex KE 2011K6 Ex	920	40	240	12,5	78	78	80
8,0	KE 2612-6 Ex KE 2612K6 Ex	920	40	240	20,0	150	110	135
13,0	KE 3317-6 Ex;K6Ex KE I 3317-6 Ex;K6Ex	920	40	240	30,0	350	225	220 240
13,0	KE I 3317A6 Ex KE I 3317AK6 Ex	920	40	240	30,0	350	225	230
16,0	KE 3517-6 Ex;K6Ex KE I 3517-6 Ex;K6Ex	920	40	240	34,0	380	290	252 275
2,3	KE 1608-4 Ex KE 1608K4 Ex	1400	40	240	6,0	26	28	47
4,5	KE 2008-4 Ex KE 2008K4 Ex	1400	40	240	12,0	60	62	70
5,5	KE 2011-4 Ex KE 2011K4 Ex	1430	40	240	12,0	80	78	82
7,5	KE 2012-4 Ex KE 2012K4 Ex	1380	40	240	17,0	105	100	64
12,0	KE 2714-4 Ex KE 2714K4 Ex	1430	40	240	28,0	180	130	140
20,0	KE 3317-4 Ex;K4Ex KE I 3317-4 Ex;K4Ex	1360	40	240	38,0	350	235	220 240
15,5	KE 3517-4 Ex;K4Ex KE I 3517-4 Ex;K4Ex	1430	40	240	29,5	240	180	252 275
22,0	KE 3517P4 Ex;KP4Ex KE I 3517P4 Ex;KP4Ex	1410	40	240	49,0	510	275	252 275
0,7/3,0	KE 2612-24/6 Ex KE 2612K24/6 Ex	210/930	20/40	240	6,5/7,5	55	48	120
0,7/4,5	KE 2612-24/4 Ex KE 2612K24/4 Ex	210/1400	20/40	240	6,5/9,5	55	55	120
1,0/4,8	KE 2714-24/6 Ex KE 2714K24/6 Ex	200/940	20/40	240	11,0/12,0	100	75	155
1,0/7,5	KE 2714-24/4 Ex KE 2714K24/4 Ex	200/1400	20/40	240	11,0/15,0	100	90	155
1,7/8,0	KE 3317-24/6 Ex KE 3317K24/6 Ex	200/920	10/40	240	15,0/18,0	140	125	230
1,7/12,5	KE 3317-24/4 Ex KE 3317K24/4 Ex	200/1430	10/40	240	15,0/23,0	140	135	230
3,0/13,0	KE 3517-24/6 Ex KE 3517K24/6 Ex KE I 3517-24/6 Ex KE I 3517K24/6 Ex	220/960	10/40	240	40,0/30,0	215	210	257 257 275 275
2,2/13,0	KE 3517-24/4 Ex KE 3517K24/4 Ex KE I 3517-24/4Ex KE I 3517K24/4 Ex	220/1400	10/40	240	30,0/28,0	200	180	257 257 275 275

OVERALL DIMENSIONS



Type	Dimensions														Shaft	
	a1	b1	e1	f1	f2	f3	f4	l 1	g1	g2	k	p	z x s1	α	d	l
KE 1608-6 Ex;K6Ex KE 1608-4 Ex;K4Ex	260	185	226	5	73	44,4	12	125	226	75	367	225	6 x 9	45	Ев25х1,5х16S3aX	27
KE 2008-6 Ex;K6Ex KE 2008-4 Ex;K4Ex	345	262	312	5	81	51,5	10	140	285	80	485	250	8 x 11	45	Ев30х1,5х18S3aX	32
KE 2011-6 Ex;K6Ex KE 2011-4 Ex;K4Ex	345	262	312	5	81	51,5	10	170 140	285	80	546	250	8 x 11	45	Ев30х1,5х18S3aX	32
KE 2012-4Ex;K4Ex	345	262	312	5	81	51,5	10	170	285	80	560	250	8 x 11	45	Ев30х1,5х18S3aX	32
KE 2612-6 Ex;K6Ex KE 2714-4 Ex;K4Ex	418	325	380	5	112	75	12	146	350	105	570 620	270	8 x 13	45	Ев40х2,0х18S3aX	40 38
KE 3317-6 Ex; K6Ex KE 3317-4 Ex;K4Ex	505	365	460	6	145	102	16	215	415	120	710	325	11x15	30	Ев45х2,5х16S3aX	60
KE 3517-6 Ex;K6Ex KE 3517-4 Ex;K4Ex KE 3517P4 Ex;KP4Ex	505	365	460	6	145	102	16	215	435	120	714	325	11x15	30	Ев45х2,5х16S3aX	60
KE 2612-24/6Ex,K24/6Ex KE 2612-24/4Ex;K24/4Ex KE 2714-24/6Ex;K24/6Ex KE 2714-24/4Ex;K24/4Ex	345	262	312	5	83	51,5	15	140 140 170 170	350	80	570 570 635 635	270 270 290 290	8 x 11	45	Ев30х1,5х18S3aX	32
KE 3317-24/6Ex;K24/6Ex KE 3317-24/4Ex;K24/4Ex	418	325	380	5	112	75	12	146	415	105	640	325	8 x 13	45	Ев40х2,0х18S3aX	40
KE 3517-24/6Ex;K24/6Ex KE 3517-24/4Ex;K24/4Ex	505	365	460	6	145	102	16	215	435	120	714	375	11 x 15	30	Ев45х2,5х16S3aX	60



Type	Dimensions													Shaft	
	b1	c1	e1	f1	f2	f3	f4	l1	*g1*	*g2*	k	p	z x s1	d	l
KE I 3317-4 Ex;K4 Ex KE I 3317-6 Ex;K6 Ex	425	470	520	25	62	22	23	117	415	130	662	325	4 x 19	45x2,0x9g	37
KE I 3317A4 Ex;AK4 Ex KE I 3317A6 Ex;AK6 Ex	362	410	440	18	57	22	19	114	415	120	664	325	4 x 19	45x2,0x9g	34
KE I 3517-4 Ex;K4 Ex KE I 3517 P4 Ex;KP4 Ex KE I 3517-6 Ex;K6 Ex KE I 3517-24/6Ex;K24/6Ex KE I 3517-24/4Ex;K24/4Ex	425	470	520	25	62	22	23	117	435	130	662	375	4 x 19	45x2,0x9g	37

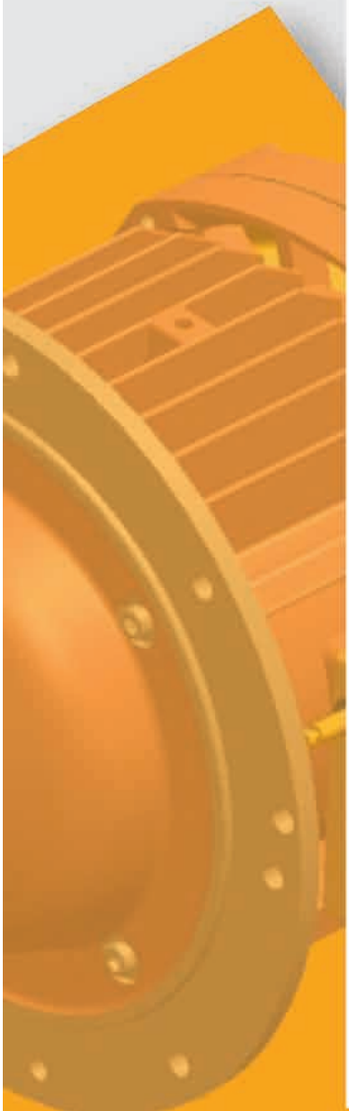
BRAKE ELECTRIC MOTORS

KKE, AKKE- Ex SERIES

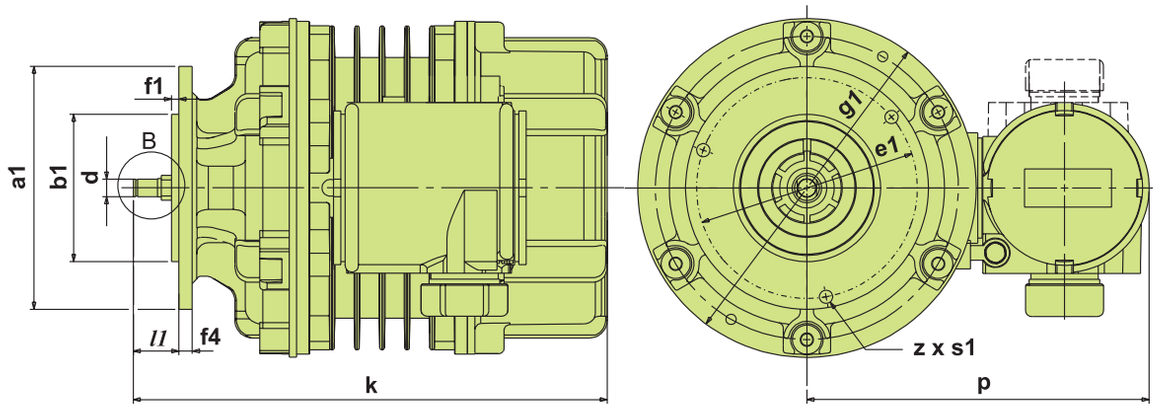
1Ex dII B T5Gb; Ex tb III B T100˚C Db
1Ex dII C T5Gb; Ex tb III C T100˚C Db
FOR EXPLOSION-PROOF TRAVELING MECHANISMS

Technical data at 380V, 50Hz

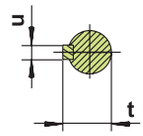
Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min^{-1}	%	h^{-1}	A	Nm	Nm	kg
0,12	KKE 1404-6 Ex KKE 1404K6 Ex	910	40	240	0.75	2.8	1.1	24.0
0,18	KKE 1404P6 Ex KKE 1404KP6 Ex	910	40	240	0.95	4.0	1.4	24.0
0,25	KKE 1608-6 Ex KKE 1608K6 Ex	940	40	240	1.1	6	2.2	46.0
0,37	KKE 1608B6 Ex KKE 1608KB6 Ex	920	40	240	1.6	10.6	3.2	46.0
0,55	KKE 1608P6 Ex KKE 1608KP6 Ex	920	40	240	2.4	15.8	4	46.5
0,55	KKE 1608B4 Ex KKE 1608KB4 Ex	1280	30	180	2.1	11.8	3.0	43.0
0,75	KKE 1608P4 Ex KKE 1608KP4 Ex	1360	40	240	2.3	10.5	4.5	46.0
0.06/0.18	KKE 1404P12/4 Ex KKE 1404KP12/4 Ex	430/1380	20/40	240	1.3/0.8	3.0/2.7	0.9	24.0
0.11/0.37	KKE 1608-12/4 Ex KKE 1608K12/4 Ex	400/1340	15/30	180	1.7/1.4	6.5/6.5	2.4÷3.0	44.0
0.18/0.55	KKE 1608B12/4 Ex KKE 1608KB12/4 Ex	410/1370	10/40	240	2.4/1.9	7.8/7.8	3.5÷4.0	46.0
0.25/0.75	KKE 1608P12/4 Ex KKE 1608KP12/4 Ex	410/1370	10/40	240	3.0/2.4	10.5/10.5	4.5	47.0
0,25	AKKE 1608-6 Ex AKKE 1608K6 Ex	940	40	240	1.1	6	2.2	47.0
0,37	AKKE 1608B6 Ex AKKE 1608KB6 Ex	920	40	240	1.6	10.6	3.2	46,5
0,55	AKKE 1608P6 Ex AKKE 1608KP6 Ex	920	40	240	2.4	15.8	4	47.0
0,55	AKKE 1608B4 Ex AKKE 1608KB4 Ex	1360	30	180	2.1	11.8	3.0	45.0
0,75	AKKE 1608P4 Ex AKKE 1608KP4 Ex	1360	40	240	2.3	10.5.	4.5	47.0
0.11/0.37	AKKE 1608-12/4 Ex AKKE 1608K12/4 Ex	400/1340	15/30	180	1.7/1.4	6.5/6.5	2.4÷3.0	44.0
0.18/0.55	AKKE 1608B12/4 Ex AKKE 1608KB12/4 Ex	410/1370	10/40	240	2.4/1.9	7.8/7.8	3.5÷4.0	46.0
0.25/0.75	AKKE 1608P12/4 Ex AKKE 1608KP12/4 Ex	410/1370	10/40	240	3.0/2.4	10.5/10.5	4.5	47.0
1,5	AKE II 1608-6 Ex	910	30	180	5.8	30	10.5	43.0
2,2	AKE II 1608P6 Ex	910	30	180	6.0	45	18	55.0
3,0	AKE II 1608P4 Ex	1320	30	180	7.1	45	25	55.0
4,0	AKE II 2008 - 4 Ex AKE II 2008 J4 Ex	1400	40	240	10.8	50	24÷27	80.0
0.37/1.1	AKE II 1608B12/4 Ex	420/1410	10/40	240	3.5/3.5	10.5/10.5	6.8÷7.8	56.0
0.5/1.5	AKE II 1608-12/4 Ex	420/1410	20/40	240	4.7/4.5	17.0/23.0	9.3÷10.7	56.0

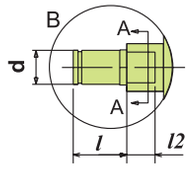


OVERALL DIMENSIONS

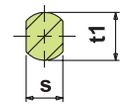


A-A
AKKE ...Ex и AKE II ...Ex





A-A
KKE ...Ex



Type	Dimensions										Shaft						
	a1	b1	e1	f1	f4	l1	g1	k	p	z x s1	d	l	l2	t1	s	t	u
KKE 1404-6 Ex; K6 Ex KKE 1404P6 Ex; KP6 Ex KKE 1404P12/4 Ex KKE 1404KP12/4 Ex	135	60	120	6	10	29,5	170	260	200	3 x 9	10	19	7	17	11	-	-
KKE 1608-6 Ex;K6 Ex KKE 1608B6 Ex;KB6 Ex KKE 1608P6 Ex;KP6 Ex KKE 1608P4 Ex;KP4 Ex KKE 1608B4 Ex;KB4 Ex KKE 1608-12/4 Ex KKE 1608K12/4 Ex KKE 1608B12/4 Ex KKE 1608KB12/4 Ex KKE 1608P12/4 Ex KKE 1608KP12/4 Ex	165	100	150	5	8	35,5	226	325	230	3 x 9	12	19	10	17	13	-	-
AKKE 1608 -6 Ex;K6 Ex AKKE 1608 B6Ex;KB6 Ex AKKE 1608 B12/4 Ex AKKE 1608 KB12/4 Ex	200	130	165	3.5	10	40	226	330	230	4 x10.5	19	40	-	-	-	21.5	6
AKKE 1608 P6Ex;KP6 Ex AKKE 1608 P4Ex;KP4Ex AKKE 1608 P12/4 Ex AKKE 1608KP12/4 Ex AKE **II** 1608-6 Ex						50		340			24	50	-	-	-	27	8
AKE **II** 1608B12/4 Ex								366									
AKE **II** 1608 P6 Ex AKE **II** 1608 P4 Ex AKE **II** 1608-12/4 Ex	250	180	215	4	14	60	226	406	230	4 x 15	28	60	-	-	-	31	8
AKE **II** 2008-4 Ex AKE **II** 2008 J4 Ex							285	497 527									

BRAKE ELECTRIC MOTORS

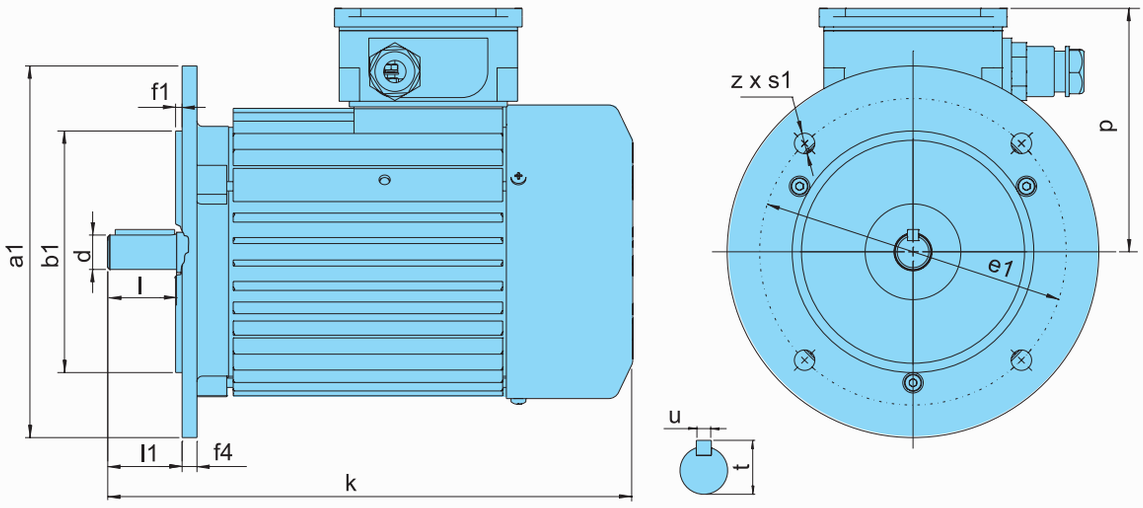
ABE SERIES

FOR DRIVING MECHANISMS

Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min $^{-1}$	%	h $^{-1}$	A	Nm	Nm	kg
0,37	ABE 71-4	1250	30	180	1,5	7,65	2,3 ÷ 3,0	16,5
0,55	ABE 71P4	1280	30	180	2.1	11,76	2,8 ÷ 3,1	18,2
0,55	ABE 80-4	1350	40	240	1,8	10,0	3,6 ÷ 4,1	14,5
0,75	ABE 80P4	1360	40	240	2,2	14,0	4,4 ÷ 5,2	15
1,1	ABE 90-4	1380	40	240	2,9	15,0	6,8 ÷ 7,8	21
1,5	ABE 90P4	1380	40	240	4,3	30,0	8,0÷9,0	24
2,2	ABE 100-4	1380	40	240	5,5	35,0	13,5÷15,5	32
3,0	ABE 100P4	1380	40	240	7,1	46,0	19,0÷21,5	36,5
0,06/0,18	ABE 71-12/4	440/1390	15/30	180	1,4/1,2	3,8/3,8	0,8 ÷ 1,0	16
0,12/0,37	ABE 80-12/4	440/1390	20/40	240	1,4/1,4	4,5/4,0	2,4 ÷ 2,8	14,5
0,18/0,55	ABE 80P12/4	440/1400	20/40	240	1,9/1,75	7,2/7,2	3,6÷4,1	15
0,25/0,75	ABE 90-12/4	430/1410	20/40	240	2,5/2,1	9,5/9,5	4,5÷5,5	22
0,37/1,1	ABE 90P12/4	420/1410	20/40	240	3,5/3,5	10,5/10,5	6,8÷7,8	26
0,5/1,5	ABE 100-12/4	420/1410	20/40	240	4,7/4,5	17,0/23,0	9,3÷10,7	32
0,75/2,2	ABE 100P12/4	420/1410	20/40	240	6,6/6,8	25,0/33,0	13,5÷15,5	36,5
4,0	ABE 112-4	1400	40	240	9.0	50,0	22 ÷ 25	57
5,5	ABE 132-4	1410	40	240	12,0	80,0	30÷33,5	68
7,5	ABE 132P4	1380	40	240	16,0	95	41÷47	79

OVERALL DIMENSIONS



Type	Dimensions									Shaft			
	a1	b1	e1	f1	f4	k	l1	p	z x s1	d	l	t	u
ABE 71 ABE 71P	160	110	130	3,5	8	236 261	30	133	4 x 9	14	30	16	5
ABE 80 ABE 80P	200	130	165	3,5	8	283	40	128	4 x 11	19	40	21,5	6
ABE 90 ABE 90P	200	130	165	3,5	10	307 337	50	128	4 x 11	24	50	27	8
ABE 100 ABE 100P ABE 112	250	180	215	4,0	12,5	400 420 450	60	161	4 x 13	28	60	31	8
ABE 132 ABE 132P	300	230	265	4,0	13	472 502	87	173	4 x 15	38	80	41,3	10

BRAKE
ELECTRIC MOTORS

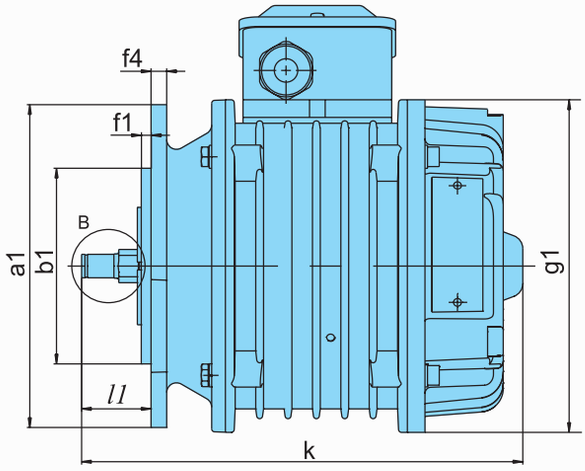
KKE SERIES

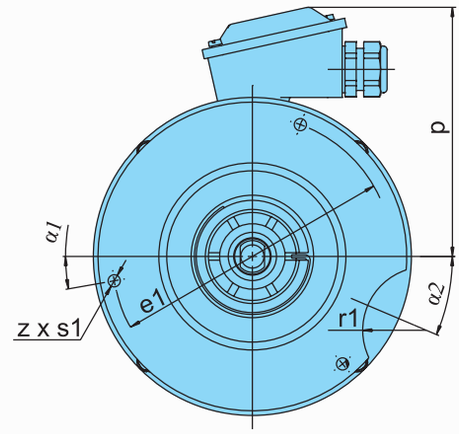
FOR DRIVING MECHANISMS

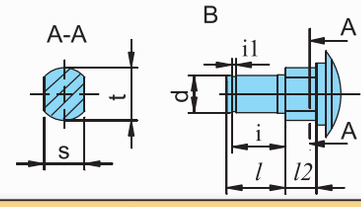
Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
			CD	SF				
kW		min^{-1}	%	h^{-1}	A	Nm	Nm	kg
0.06	KKE 1204-12AS	450	40	240	0.75	2.5	1.0	7.7
0.12	KKE 1204-6A	920	30	180	0.82	3.0	1.0	7.7
0.25	KKE 1405-6A	870	30	180	1.2	7.25	1.96	15.5
0.37	KKE 1407-6A	860	30	180	1.8	10.8	2.45	18.2
0.18	KKE 1204-4A	1440	30	180	0.75	3.0	1.0	7.7
0.37	KKE 1405-4A	1250	30	180	1.5	7.65	2.35	15.5
0.55	KKE 1407-4A	1280	30	180	2.1	11.75	2.94	18.2
0.75	KKE 80P4	1360	40	240	2.2	14.0	4.4÷5.2	15.0
0.06/0.18	KKE 1405-12/6A	450/870	15/30	180	1.4/1.0	3.8/3.8	0.9	15.5
0.11/0.25	KKE 1407-12/6A	400/860	15/30	180	1.7/1.4	6.5/6.5	2.4	18.2
0.06/0.18	KKE 1405-12/4A	450/1440	15/30	180	1.4/1.2	3.8/3.8	0.9	15.5
0.11/0.37	KKE 1407-12/4A	400/1340	15/30	180	1.7/1.4	6.5/6.5	2.4	18.2
0.18/0.55	KKE 80P12/4	440/1400	20/40	240	1.9/1.75	7.2/7.2	3.6÷4.1	15.0

OVERALL DIMENSIONS







Type	Dimensions													Shaft						
	a1	b1	e1	f1	f4	l1	g1	k	p	z x s1	α1°	α2°	r1	d	l	l2	i	i1	t	s
KKE 1204-12;4;6A	135	60	120	6	10	29.5	132	216	113	3 x 7	6	24	27	10	19	7	17.3	1.3	17	11
KKE 1405 - 4,6A KKE 80P4	165	100	150	5	8	35.5	170 158	225 281	133 129	3 x 9	10	23	34	12	19	10	17.3	1.3	17	13
KKE 1405 - 12/4A KKE 1405 - 12/6A	135	60	120	6	8	29.5	170	225	133	3 x 7	6	-	-	10	19	10	17.3	1.3	17	11
KKE 1407 - 4,6A KKE 1407 - 12/4A KKE 1407 - 12/6A KKE 80P12/4	165	100	150	5	8	35.5	170 158	260 281	133 129	3 x 9	10	23	34	12	19	10	17.3	1.3	17	13

AE SERIES

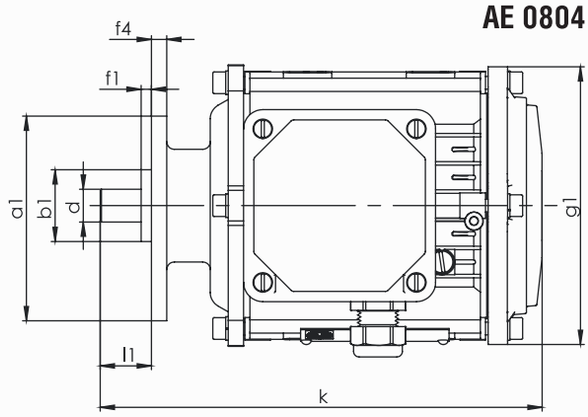
FOR DRIVING MECHANISMS WITHOUT BRAKE

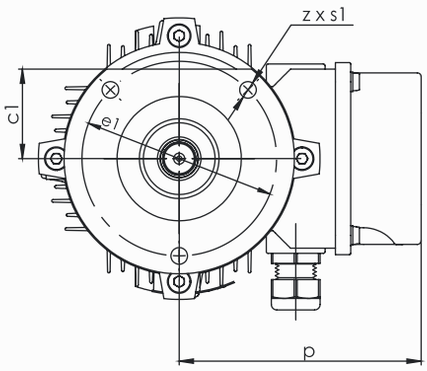
Technical data at 380V, 50Hz

Power	Type	Speed of revolution	Duty cycle		Current	Starting torque	Braking torque	Weight
kW		min^{-1}	%	h^{-1}	A	Nm	Nm	kg
0.04	AE 0804 -6	930	40	120	0.37	1.3	-	2.9
0.04	AE 0804-6 EM	930	40	120	0.37	1.3	0.37÷0.42	3.2
0.12	AE 1005K6A	860	40	240	0.6	2.8	-	4.1
0.25	AE 1205K6A	840	40	240	1.1	5.5	-	6.7
0.37	AE 1207K6A	840	40	240	1.6	8.5	-	8.2

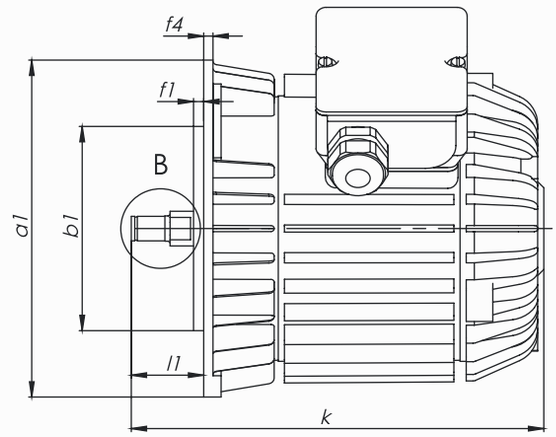
OVERALL DIMENSIONS

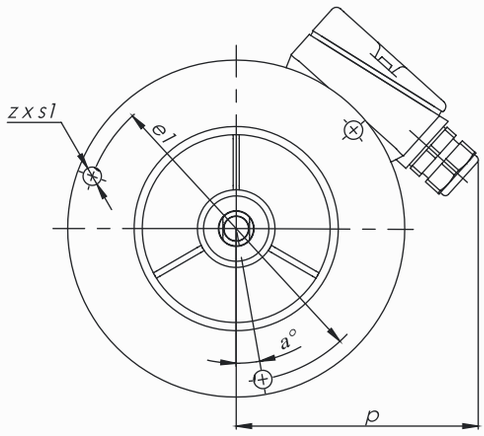
AE 0804

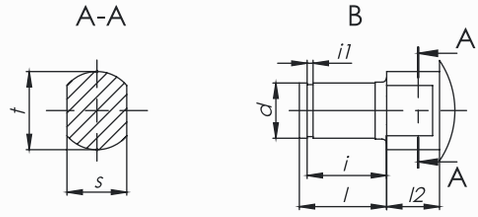




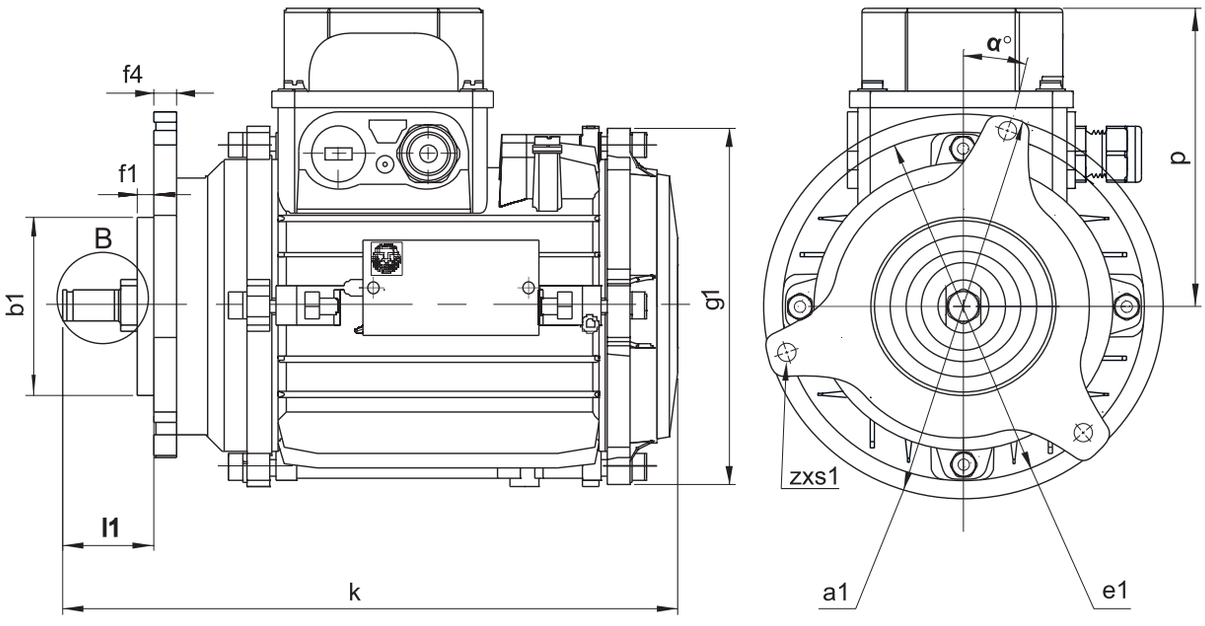
AE1205K6A; AE 1207K6A

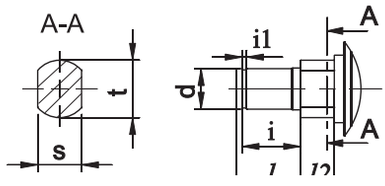






AE 1005





Type	Dimensions																		
	a1	b1	c1	e1	f1	f4	l1	g1	k	p	z x s1	α°	d	l	l2	i	i1	t	s
AE 0804-6	90	28	35	76	4	6	20	110	173	94.5	3x6.5	-	12.8 Z=10,m=1	-	-	-	-	-	-
AE 0804-6EM	90	28	35	76	4	6	20	110	207	94.5	3x6.5	-	12.8 Z=10,m=1	-	-	-	-	-	-
AE 1005K6A	132	60	-	120	6	8	30.5	120	205	99	3x7	15	10	19	7	17.3	1.3	17	11
AE 1205K6A	165	100	-	150	5	5	35.5	-	182	120	3x9	10	12	19	10	17.3	1.3	17	13
AE 1207K6A	165	100	-	150	5	5	35.5	-	202	120	3x9	10	12	19	10	17.3	1.3	17	13

WE ALSO MANUFACTURE

T- electric wire rope hoists

The electric wire rope hoists of T Series are the most famous and well-sold hoists worldwide. More than 1 800 000 pieces have already been produced, which have been marketed in more than 40 countries. Their main advantages are: high reliability, durability, simple maintenance. These advantages in combination with the broad range of lifting capacities, lift and move speeds, construction executions, and ability to be used in different conditions, make the electric hoists of this series preferred to the other executions, despite their 30-year-old history.

MT- electric wire rope hoists

The wire rope hoists of MT Series are the inheritors of the world's most popular series of electric wire rope hoists T. By keeping the basic technical features and thanks to the use of a new body construction, contemporary steel ropes, hooks, etc., we offer our customers a series of electric hoists with much extended opportunities like lifting capacity, lift speed and conveying speed. All this expands new opportunities for a more efficient operation of our products.

BT- electric explosion-proof wire rope hoists

Based on the basic construction decisions of electric wire rope hoists series T and keeping its technical features, series BT electric explosion-proof wire rope hoists is intended to operate in an explosion hazardous environment.
The electrical equipment included in these goods, such as: electric motors, electric appliances panel, control panel, overtravel limit switches, etc., is manufactured in the so called "explosion-proof" execution, and it is marked by: (Ex) d IIB T5 and (Ex) d IIC T5.

BMT- electric explosion-proof wire rope hoists

The electric wire rope hoists BMT series are based on the basic technical solutions being used in BT and MT series. Based on the higher technical parameters of MT series and the already proven technical decisions of BT series regarding explosion proof, we have created an electric explosion-proof wire rope hoist having much better operational features, such as lifting capacity, lift speed and conveying speed. The electrical equipment is identical to BT series, which presupposes the identical explosion-proof execution and marking: (Ex) d IIB T5 and (Ex) d IIC T5.

Weight-lifting cranes

1.Single-girder underslung traveling cranes - lifting capacity from 1 to 16 t and a span from 3 to 25 m.
2.Single-girder stationary traveling cranes - lifting capacity from 1 to 16 t and a span from 4.5 to 25.5 m.
3.Double-girder stationary traveling cranes - lifting capacity from 5 to 100 t and a span from 10.5 to 50 m.
4.Bracket stationary and wall-mounted cranes - lifting capacity from 1 to 10 t and an outrigger spread from 3 to 10 m.
Ground and cabin control. Explosion-proof execution as an option.

Crane components

1.Reduction gears and geared motor groups - intended for driving the running gears of girder cranes and other lifting equipment. These are available in a great variety of output revolutions and torques. They are driven by electric motors with built-in cone brakes. Explosion-proof execution as an option.
2.Front girders for stationary traveling cranes - diameters of traveling wheels from 160 to 400 mm, load of the traveling wheel from 4000 to 19 500 kg, conveying speeds from 8 to 32 m/min. Explosion-proof execution as an option.
3.Cable trolleys - intended for carrying supply and operation cables of traveling cranes. Available in executions for traveling onto profile or straight steel rope.

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