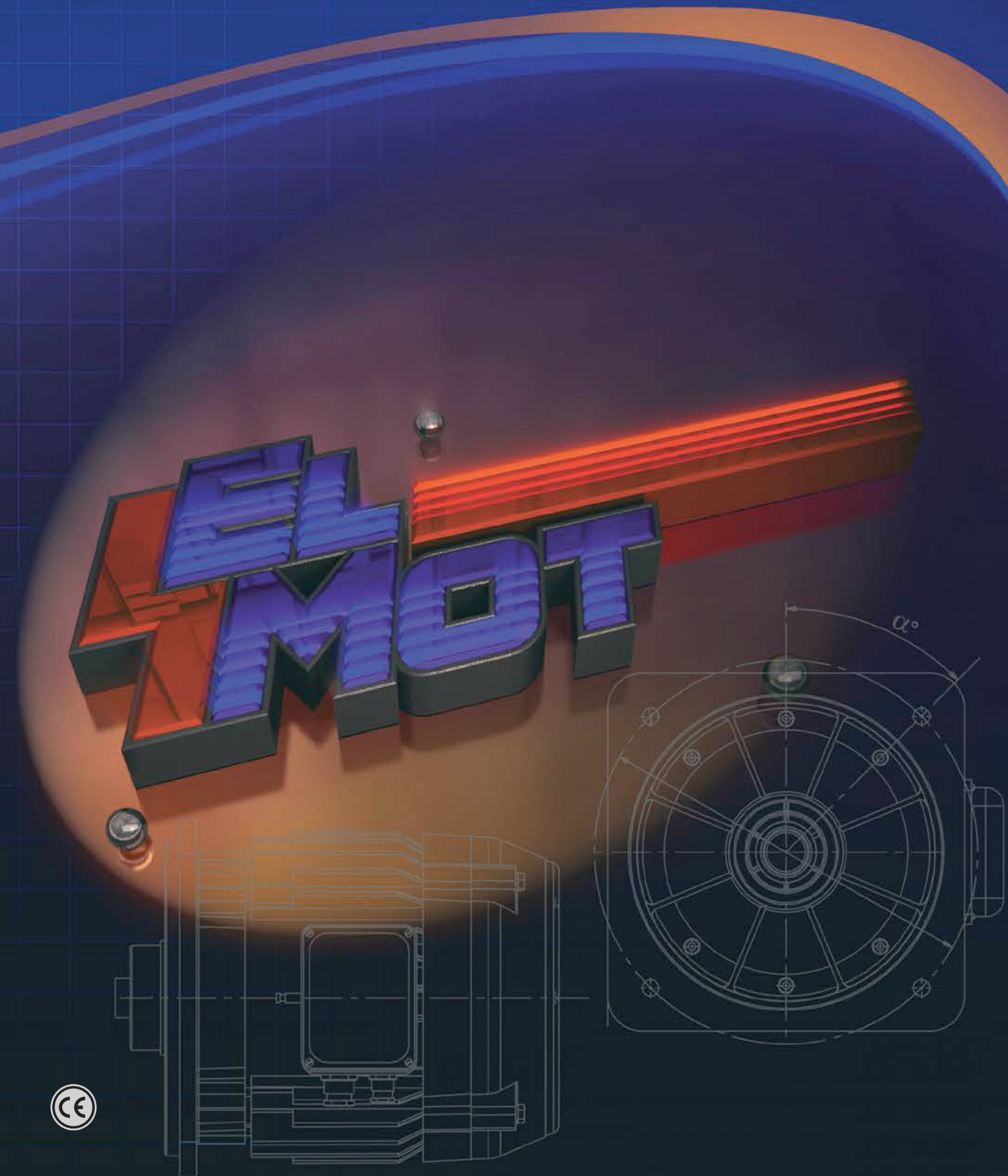


ELECTRIC MOTORS ELEKTROMOTOREN

KV, KG, K, AK, KKT, KG-AI, K-Ex, KK-Ex, AKK-Ex,



ELMOT JSC - 73 Nikola Gabrovski Str., 5000 Veliko Tarnovo, Bulgaria
phone/fax +359 62 647 837; +359 62 641 963; +359 62 641 952
E-mail: elmot1@elmotbg.com, <http://www.elmotbg.com>





ELMOT AG Veliko Tarnovo wurde im Jahr 1967 gegründet.
Für kurze Zeit wurde das Unternehmen weltweit der größte Hersteller von
asynchronen Elektromotoren mit konischem Rotor und eingebauter Bremse.

Die Produktionspalette der ELMOT AG umfasst folgende Artikel:

- Seilelektrozüge
- eintourige und zweitourige Elektromotoren mit eingebauter Bremse - Leistung bis 45kW
- Getriebemotorgruppen in Standard- und Ex-Ausführung
- Lastbegrenzer
- Karren und Kopfträger für Kräne

ELMOT JSC is created in 1967. In short time it became
the biggest manufacturer of asynchronous electric motors
with conical rotors and built-in brake in the world.

Now ELMOT manufactures:

- Electric wire rope hoists
- Single and double speed electric motors with built-in brake with power up to 45 kW
- Geared motors-normal and explosion-proof execution
- Rope load limiter
- Trolleys and end carriages for cranes



Current issue date: 29 April 2022
Expiry date: 28 April 2025
Certificate number: 10435022

Original approval(s):
ISO 14001 - 29 April 2010
ISO 9001 - 8 June 1999
ISO 45001 - 15 April 2019

Certificate of Approval

This is to certify that the Management System of:

Elmot JSC

73 Nikola Gabrovski Str., 5002 Veliko Tarnovo, Bulgaria

has been approved by LRQA to the following standards:

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Approval number(s): ISO 14001 - 0039363, ISO 9001 - 0039364, ISO 45001 - 0039365

The scope of this approval is applicable to:

Design, manufacture and servicing of asynchronous single and three phase electric motors with cone rotors and built-in brakes for lifting and driving mechanisms; electric wire rope and electric chain hoists; geared motors, crane and crane components; elastic clutches for driving systems; load limiters; electric asynchronous motors with cylindrical rotors and their components.

Paul Graaf

Area Operations Manager, Europe
Issued by: Lloyd's Register EMEA Branch
for and on behalf of: LRQA Limited



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Issued for: Lloyd's Register EMEA Branch, 814 Bolingbroke Road, Floor 8, Office 5 & 10, 1404 Sofia, Bulgaria for and on behalf of: LRQA Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom



Physical-Technical Testing Institute
Ostrava - Radvanice



Quality Assurance Notification

(1) Equipment or Protective Systems or Components Intended for use
(2) in Potentially Explosive Atmospheres
Directive 2014/34/EU

(3) Notification number:

FTZÚ 11 ATEX Q 008

(5th Edition)

(4) Group of products: **Electrical motors and hoists with type of protection: Flameproof enclosure "d", increased safety "e"**

(5) Manufacturer: **ELMOT JSC, 24 Academic M. Popov str., Sofia, Bulgaria**

(6) Manufacturing location: **ELMOT JSC, 73 Nikola Gabrovski str., 5000 Veliko Tarnovo, Bulgaria**

(7) The Physical-Technical Testing Institute, Notified Body number 1026 in accordance with Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, notifies that the manufacturer has a quality system which complies with Annex IV of the Directive „Conformity to type based on quality assurance of the production process“ and VII of the Directive „Conformity to type based on product quality assurance“.

(8) This notification is based upon Audit Report No. FTZÚ 11/ATEXQ/008 issued the 27.09.2023 and extends validity of previous notification, issued on 15.10.2020.

This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex IV and VII of the Directive.

Results of periodical re-assessment of the quality system are part of this notification.

(9) This notification is valid until 15.10.2026 and can be withdrawn if manufacturer does not satisfy the quality assurance surveillance.

(10) According to Article 16 (3) of the Directive 2014/34/EU the CE marking shall be followed by the identification number 1026 identifying the notified body involved in the production control stage.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

Date of issue: 16.10.2023

Page: 1/2

This Notification is granted subject to the general conditions of the FTZÚ, s.p.
This Notification may only be reproduced in its entirety and without any change.
FTZÚ, s.p., Písařská 1337/7, 718 07 Ostrava-Radvanice, The Czech Republic,
tel +420 595 223 111, +420 604 203 525, ftzu@ftzu.cz, www.ftzu.cz



Certificate of Compliance

Certificate: 2269308

Master Contract: 222581

Project: 2269308

Date Issued: February 7, 2011

Issued to: **ELMOT JSC
73 Nikola Gabrovski str
5000 Veliko Tarnovo
BULGARIA**

Attention: Mr. Ivan Tsankov

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



S. Christov
Issued by: S. Christov

PRODUCTS

CLASS 9041 01 - CRANES AND HOISTS
CLASS 9041 81 - CRANES AND HOISTS - Certified to US Standards

Hoist motors, series KG and KV, rated 220Vac; 440 and 575Vac, 3ph, TEFC, class F, 60Hz, 55kW max, dual and single speed.
Hoist travel motors, series AK, KK, AKK and KKT, rated 220Vac, 440 and 575Vac, 3ph, TEFC, class F, 60Hz, 1.3kW max, dual and single speed.

Notes: Certified as components for use in other equipment where the acceptability of the combination is to be determined by CSA International or other NRTL.

APPLICABLE REQUIREMENTS

CSA C22.2 0-10 - General Requirements - Canadian Electrical Code, Part II
CSA C22.2 33-M1984 - Electric Cranes and Hoists
CSA C22.2 100-04 - Motors and Generators
UL 1004-1 1st edition - Rotating Electric Machines - General Requirements



Declaration of Conformity

ELMOT JSC

24 "Academic M. Popov" str. 4 floor region "Izgrev", Sofia, Bulgaria
73 Nikola Gabrovski Str., 5000 Veliko Tarnovo, Bulgaria
tel. +359 62 647-837, +359 62 641-951,
fax 0359 62 644-861, e-mail: elmot1@elmothg.com

**DECLARE FULL AND SOLE RESPONSIBILITY THAT THE PRODUCTS:
ASYNCHRONOUS BRAKE MOTORS WITH CONICAL ROTOR
AND BUILT- IN BRAKE:**

FOR MAIN LIFTING MECHANISM OF ELECTRIC WIRE ROPE HOISTS, CHAIN HOISTS,
ELECTRIC WIRE ROPE HOISTS WITH SLIP CLUTCH AND WINCHES:
series KG -> KV -> AK -> AKT -> K -> EK -> KH -> EKH -> KXM -> EKXM -> KG ->
EKG -> KH -> EKH -> KGC -> BKC ->
Conform To The Requirements Of The Ee Directives:



Declaration of Conformity

ELMOT JSC

24 "Academic M. Popov" str. 4 floor region "Izgrev", Sofia, Bulgaria
73 Nikola Gabrovski Str., 5000 Veliko Tarnovo, Bulgaria
tel. +359 62 647-837, +359 62 641-951,
fax 0359 62 644-861, e-mail: elmot1@elmothg.com

**DECLARE FULL AND SOLE RESPONSIBILITY THAT THE PRODUCTS:
ASYNCHRONOUS BRAKE MOTORS WITH CONICAL ROTOR
AND BUILT- IN BRAKE:**

FOR GEARED MOTORS AND TRAVELING MECHANISMS:
series AK -> KK -> KP -> KKT ->
Conform To The Requirements Of The Ee Directives:
Machinery Directive 2006/42/EC including Amendments;
Low Voltage Equipment 2006/95/EC including Amendments;
Electromagnetic Compatibility 2004/108/EC;
AND THE REQUIREMENTS OF THE HARMONIZED STANDARDS:
EN ISO 12100-1 - Part I - "Safety of machinery - basic terminology, methodology";
EN ISO 12100-2 - Part II - "Safety of machinery - technical principles and specifications";
EN ISO 60204-1 - "Safety of machinery. Part 1";
AND THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS:
EN ISO 60034-1 - "Rotating electrical machines - Part 1: Rating and performance";
EN ISO 60034-5 - "Degrees of protection";
IEC 34-5 1P "Classes of protection";
FEM 9.511 "Bases for calculation of serial lifting mechanisms. Classification of mechanisms";
FEM 9.661 "Bases for calculation of serial lifting mechanisms. Sizes and quality of driving elements for pulley systems (reeving) with ropes";
FEM 9.681 "Bases for calculation of serial lifting mechanisms. Selection of travel motors";
FEM 9.682 "Bases for calculation of serial lifting mechanisms. Selection of lifting motors";
FEM 9.755 "Serial lifting devices. Measures for achievement of safe periods of operation of serial

**Asynchronmotoren, Serie KV
mit eingebauter Bremse fuer
Hubseilzuege**

- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F, Moegliche Ausfuehrung H
- Arbeitsregime, Bestellung nach:
25%/150h⁻¹, 30%/180h⁻¹ oder 10/25%/180h⁻¹
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 54, IP22 der Bremse (EN60529)
- Flanschausfuehrung-IM B5 (EN 60034-7)
- Moeglichkeit um Thermoschutz einzubauen

ANWENDUNG: Fuer Hubwerke der Seilzuege
Bauwinde und andere Hebezeuge

**Asynchronous electric motors KV series
with built-in brake for the main lifting
mechanism of electric wire rope hoists**

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F, optional H
- On request the duty cycle could be:
25%/150 h⁻¹, 30%/180 h⁻¹ or 10/25%/180h⁻¹
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 54, brake protection IP 22 (EN 60529)
- Flange joining IM B5 (EN 60034-7)
- Optional thermal protection

Application: Main lifting mechanism of
electric wire rope hoists, winches
and other lifting machines



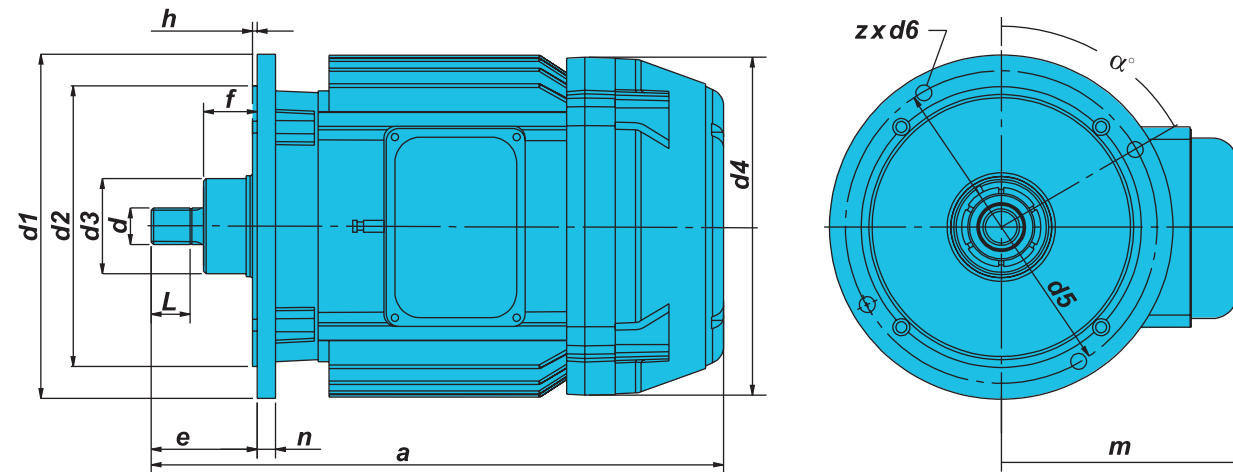
Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min ⁻¹	V	%	h ⁻¹	A	Nm	Nm	kg
0.75	KV 0501-6	910	400/230	40	240	3.3/5.7	16.4	10.8	30
1.5	KV 1001-6	910	400/230	40	240	5.8/10.0	25.0	23.5	39
3.0	KV 2002-6	920	400/230	40	240	11.0/19.0	60.5	49	65
4.5	KV 3002-6	920	400/230	40	240	15.0/26.0	78.0	88	70
8.0	KV 4002-6	920	400/230	40	240	24.5/42.5	132	105	103
13.0	KV 4003-6	920	400/230	40	240	26.0/45.0	360	210	195
13.0	KV 5002B6	950	400/230	40	240	26.0/45.0	280	290	230
16.0	KV 5002-6	930	400/230	40	240	55.0/95.3	330	340	230
13.0	KV 6002B6	950	400/230	40	240	26.0/45.0	280	290	230
16.0	KV 6002-6	930	400/230	40	240	55.0/95.3	330	340	230
22.0	KV 6002P6	950	400/230	40	240	42.0/72.0	360	340	230
25.0	KV I 6002P6	930	400/230	40	240	66.0/114.3	450	420	230
1.1	KV 0501-4	1360	400/230	40	240	3.6/6.2	15	18	30
2.3	KV 1001-4	1300	400/230	40	240	6.0/10.5	26	28	39
4.5	KV 2001-4	1400	400/230	40	240	12.0/21.0	60	70	65
7.5	KV 3001-4	1380	400/230	40	240	17.0/29.5	105	100	82
12.0	KV 4001-4	1430	400/230	40	240	28.0/48.5	180	130	141
22.0	KV 5001-4	1400	400/230	40	240	51.0/88.3	510	290	230
22.0	KV 6001B4	1400	400/230	40	240	50.0/86.3	510	290	230
25.0	KV 6001-4	1400	400/230	40	240	51.0/88.3	510	330	230
30.0*	KV 6003-4*	1400	400/230	40	240	49.0/85.0	400	380	252
0.33/1.5	KV 1003-24/6	200/930	400	25/50	300	3.7/5.0	29	24	57
0.7/3.0	KV 2003-24/6	210/930	400	25/50	300	6.0/7.5	52	48	102
1.0/4.8	KV 3003-24/6	200/940	400	25/50	300	11.0/12.0	100	90	135
1.7/8.0	KV 4003-24/6	200/920	400	25/50	300	15.0/18.0	140	135	195
3.0/13.0	KV 5001-24/6	220/960	400	10/40	240	40.0/30.0	215	180	230
4.0/16.0	KV 5003-24/6	210/950	400	10/40	240	70.0/36.0	360/300	290	252
3.0/13.0	KV 6001-24/6	220/960	400	10/40	240	40.0/30.0	215	180	230
4.0/16.0	KV 6003-24/6	210/950	400	10/40	240	70.0/36.0	360/300	330	252
5.0/20.0	KV 6003P24/6	210/950	400	15/30	180	84.0/43.0	360/300	330	252
0.33/2.2	KV 1003-24/4	200/1400	400	25/50	300	3.7/6.2	29	30	57
0.7/4.5	KV 2003-24/4	210/1400	400	25/50	300	6.0/9.5	52	55	102
1.0/7.5	KV 3003-24/4	200/1400	400	25/50	300	11.0/15.0	100	90	135
1.7/12.5	KV 4003-24/4	200/1430	400	25/50	300	15.0/23.0	140	135	195
3.7/22.0	KV 5003-24/4	210/1400	400	10/40	240	71.0/48.0	360/380	290	252
3.7/22.0	KV 6003-24/4	210/1400	400	10/40	240	71.0/48.0	360/380	290	252
4.0/24.0	KV 6003P24/4	210/1400	400	15/30	120/60	73.7/50.0	360/380	290	252

* Arbeitnur mit Frequenzregler / Working only with frequency inverter

ED / CD – Arbeitsregime / Cyclic duration factor

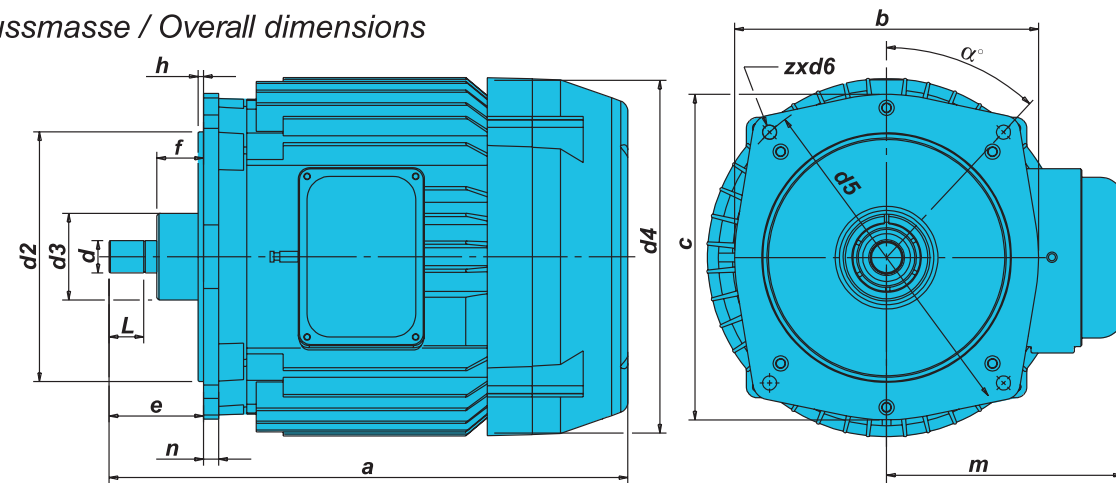
c/h / SF – Einschaltungsanzahl pro Stunde / Number of switches per hour

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]													Welle / Shaft	
	a	e*	n	f	h	m	d1	d2	d3	d4	d5	z x d6	α°	d	L
KV 0501	340					165	221			230	203		15		25
KV 1001	350	67	12	20	4	165	221	180	74	230	203	4x9	15	E _B 25x1.5x16S3aX	25
KV 1003	387					198	250			278	230		45		27
KV 2001	422					172									
KV 2002	422	87	12	44	4	172									
KV 3001	480					198	282	230	78	275	254	4x13	60	E _B 30x1.5x18S3aX	32
KV 3002	436					194									
KV 4001	502					172									
KV 4002	476	67	17	20	4	251	368		105	376	330		65		
KV 4003	557					212	368	250	108	328	330	4x17	65	E _B 40x2.0x18S3aX	32
KV 7001	690	89.5	19	8	4	257	370		108	418	336		30		
						310	560	430	158	555	510	4x17	30	E _B 60x2.5x9g	60

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]														Welle / Shaft	
	a	b	c	e*	n	f	h	m	d2	d3	d4	d5	zx d6	α°	d	L
KV 2003	473	280	300	87	14	43	4	220	230		328	316	4x13	43	Eв30x1.5x18S3aX	32
KV 3003	500							230			366					
								220			328					
KV 5001	579	415	415	67	18	8	5	266	362	120	348	440	4x19	45	Eв45x2.5x16S3aX	54
KV 5002																
KV 5003																
KV 6001																
KV 6002																
KV 6003																

* Arbeitslage. Toleranz der Bremslage - max 2.5 mm / At operation mode. At idle mode the maximum tolerance is 2.5 mm

Asynchronmotoren, Serie KG mit eingebauter Bremse fuer Hubseilzuege

- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F, Moegliche Ausfuehrung H
- Arbeitsregime, Bestellung nach:
25%/150h⁻¹, 30%/180h⁻¹ oder 10/25%/180h⁻¹
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 54, IP22 der Bremse (EN60529)
- Flanschausfuehrung-IM B5 (EN 60034-7)
- Moeglichkeit um Thermoschutz einzubauen

ANWENDUNG: Fuer Hubwerke der Seilzuege
Bauwinde und andere Hebezeuge

Asynchronous electric motors KG series with built-in brake for the main lifting mechanism of electric wire rope hoists

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F, optional H
- On request the duty cycle could be:
25%/150 h⁻¹, 30%/180 h⁻¹ or 10/25%/180h⁻¹
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 54, brake protection IP 22 (EN 60529)
- Flange joining IM B5 (EN 60034-7)
- Optional thermal protection

Application: Main lifting mechanism of
electric wire rope hoists, winches
and other lifting machines



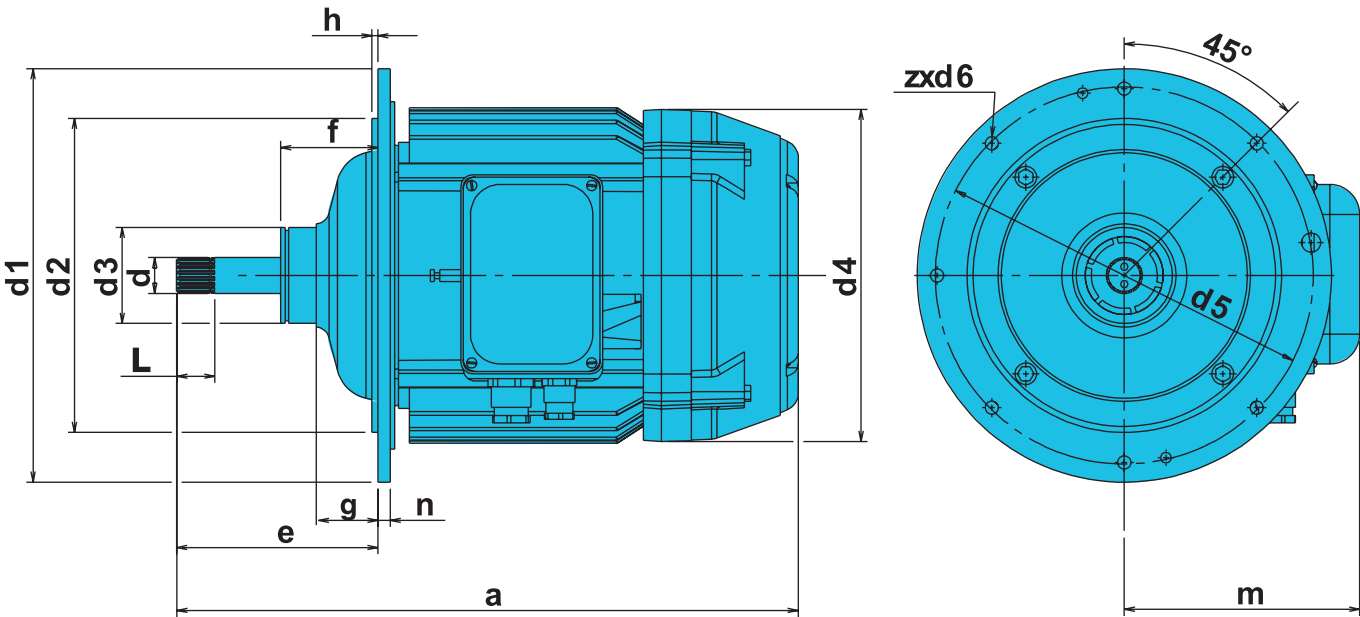
Nenndaten / Rated data

Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min ⁻¹	V	%	h ⁻¹	A	Nm	Nm	kg
0.75	KG 1605D6	910	400/230	40	240	3.3/5.7	16.4	10.8	35
1.5	KG 1608D6	910	400/230	40	240	5.8/10.0	25.0	23.5	40
	KG II 1608-6								36
3.0	KG 2008D6	920	400/230	40	240	11.0/19.0	60.5	49	65
4.5	KG 2011D6	920	400/230	40	240	15.0/26.0	78.0	78	70
	KG II 2011D6								
8.0	KG 2412-6	920	400/230	40	240	24.5/42.5	132	105	100
12.5	KG 2714-6	920	400/230	40	240	36.0/62.0	200	165	155
20.0	KG 3517-6	930	400/230	40	240	60.0/104.5	340	330	215
1.1	KG 1605D4	1360	400/230	40	240	3.6/6.2	15	18	35
2.3	KG 1608D4	1300	400/230	40	240	6.0/10.5	26	28	40
4.5	KG 2008D4	1400	400/230	40	240	12.0/21.0	60	78	65
7.5	KG I 2012-4	1380	400/230	40	240	17.0/29.5	105	100	75
12.0	KG I 2714-4	1430	400/230	40	240	28.0/48.5	180	130	140
15.5	KG 3517-4	1430	400/230	40	240	29.5/51.0	240	150	215
25.0	KG I 3517-4	1400	400/230	40	240	53.8/93.2	510	330	215
30.0*	KG 3518-4	1400	400/230	40	240	48.0/83.0	400	290	237
0.30/1.5	KG I 2110-30/6	165/930	400	10/40	240	5.5/5.1	30/23	24	57
0.5/3.0	KG I 2612-30/6	165/930	400	10/40	240	10.0/8.5	52	48	101
0.8/4.8	KG II 2714-30/6	170/930	400	10/40	240	15.0/12.0	90	75	130
1.5/8.0	KG I 3317-30/6	170/940	400	10/40	240	30.0/19.0	140	125	195
0.15/1.1	KG I 2009-30/4	165/1400	400	10/40	240	4.0/4.0	14/16	15	48
0.30/2.2	KG I 2110-30/4	165/1400	400	10/40	240	5.5/7.0	30	30	57
0.5/4.5	KG I 2612-30/4	165/1400	400	10/40	240	10.0/11.0	52	55	101
0.8/7.5	KG II 2714-30/4	170/1400	400	10/40	240	15.0/15.0	90	90	130
1.5/12.5	KG I 3317-30/4	170/1430	400	10/40	240	30.0/28.0	140/180	135	195
0.33/1.5	KG I 2110-24/6	200/930	400	25/50	300	3.7/5.0	29	24	57
	KG II 2110-24/6								
0.7/3.0	KG I 2612-24/6	210/930	400	25/50	300	6.0/7.5	52	48	101
0.7/3.0	KG II 2612-24/6	210/920	400	20/40	240	6.0/7.5	52	48	101
1.0/4.8	KG II 2714-24/6	200/940	400	25/50	300	11.0/12.0	100	75	130
	KG V 2714-24/6								
1.7/8.0	KG I 3317-24/6	200/920	400	25/50	300	15.0/18.0	140	125	195
3.0/13.0	KG 3517-24/6	220/960	400	10/40	240	40.0/30.0	215	180	215
4.0/16.0	KG 3518-24/6	210/950	400	10/40	240	70.0/36.0	360/300	290	237
0.33/2.2	KG I 2110-24/4	200/1400	400	25/50	300	3.7/6.2	29	30	57
0.7/4.5	KG I 2612-24/4	210/1400	400	25/50	300	6.0/9.5	52	55	101
1.0/7.5	KG II 2714-24/4	200/1400	400	25/50	300	11.0/15.0	100	90	130
1.7/12.5	KG I 3317-24/4	200/1430	400	25/50	300	15.0/23.0	140	135	195
1.9/11.5	KG 3517-24/4	225/1400	400	10/25	120	30.0/25.0	170/180	170	215
3.7/22.0	KG 3518-24/4	210/1400	400	10/40	240	71.0/48.0	360/380	290	237
1.3/3.8	KG II 2012-12/4	450/1320	400	10/40	240	11.5/8.8	46	50	75
0.19	EK 2110-24	230	400	40	1800	3.5	8	20	57

* Arbeit nur mit Frequenzregler / Working only with frequency inverter
ED / CD – Arbeitsregime / Cyclic duration factor
c/h / SF – Einschaltungsanzahl pro Stunde / Number of switches per hour



Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]													Welle / Shaft	
	a	e*	f	g	h	n	m	d1	d2	d3	d4	d5	z x d6	d	L
KG 1605D	350	109	73	44.4	4	8	165	260	185	75	230	226	8x9	Eb25x1.5x16S3aX	27
KG 1608D	385	125													
KG II 1608D	368	92													
KG 2008D	442	138	83	51.5	5	15	172	345	262	80	275	312	7x11	Eb30x1.5x18S3aX	32
KG 2011D	482	168													
KG II 2011	437	125													
KG I 2012	512	168													
KG II 2012	484	140													
KG2412	491	146	110	75	5	12	212	418	325	105	328	380	8x13	Eb40x2.0x18S3aX	38**
KG I 2110	423	125	73	44.4	4	8	198	260	185	75	278	226	7x9	Eb25x1.5x16S3aX	27
KG II 2110	390	92													
KG I 2612	508	140	81	51.5	5	10	220	345	262	80	328	312	7x11	Eb30x1.5x18S3aX	32
KG 2714	596	215	145	102	6	16	266	505	365	120	376	460	11x15	Eb45x2.5x16S3aX60	
KG I 2714	527	146	110	75	5	12	252	418	325	105	376	380	7x13	Eb40x2.0x18S3aX	38**
KG II 2714	566	168	81	51.5	5	10	226	345	262	80	366	312	7x11	Eb30x1.5x18S3aX	32
KG V 2714		129													
KG I 3317	579	146	110	75	5	12	257	418	325	105	418	380	8x13	Eb40x2.0x18S3aX	38**
KG 3517	629	215	145	102	6	16	266	505	365	120	438	460	11x15	Eb45x2.5x16S3aX60	
KG 3518	635														
EK 2110	423	125	73	44.4	4	8	198	260	185	75	278	226	7x9	Eb25x1.5x16S3aX	27

* Arbeitslage. Toleranz der Bremslage - max2.5 mm / At operation mode. At idle mode the maximum tolerance is 2.5 mm

**Asynchronmotoren, Serie KG
mit eingebauter Bremse fuer
Hubseilzuege**

- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F, Moegliche Ausfuehrung H
- Arbeitsregime, Bestellung nach:
25%/150h⁻¹, 30%/180h⁻¹ oder 10/25%/180h⁻¹
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 54, IP22 der Bremse (EN60529)
- Flanschausfuehrung-IM B5 (EN 60034-7)
- Moeglichkeit um Thermoschutz einzubauen

ANWENDUNG: Fuer Hubwerke der Seilzuege
Bauwinde und andere Hebezeuge



**Asynchronous electric motors KG series
with built-in brake for the main lifting
mechanism of electric wire rope hoists**

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F, optional H
- On request the duty cycle could be:
25%/150 h⁻¹, 30%/180 h⁻¹ or 10/25%/180h⁻¹
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 54, brake protection IP 22 (EN 60529)
- Flange joining IM B5 (EN 60034-7)
- Optional thermal protection

Application: Main lifting mechanism of
electric wire rope hoists, winches
and other lifting machines



Nenndaten / Rated data

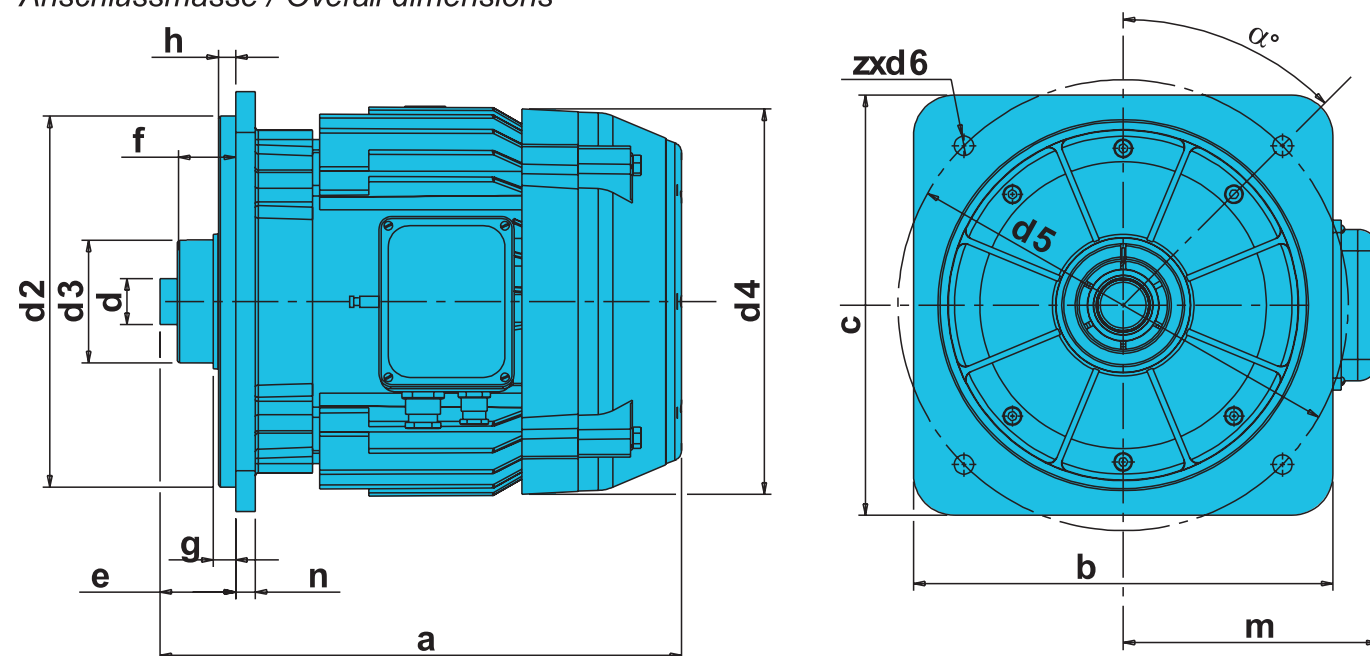
Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min ⁻¹	V	%	h ⁻¹	A	Nm	Nm	kg
1.25/5.0	K 2011-8/2	700/2770	400	15/30	180	7.5/10.5	40/38	40	65
5.0	K 2011-4	1430	400/230	40	240	11.2/19.4	80	70	65
7.5	K 2012A4	1380	400/230	40	240	17.0/29.5	105	100	82
	K 2012B4								80
12.0	K 2714-4	1430	400/230	40	240	28.0/48.5	180	130	143
15.5	K 3517-4	1430	400/230	40	240	29.5/51.0	240	150	230
30.0	K II 3518-4	1400	400/230	40	240	49.0/85.0	380	380	252
12.5	K 2714-6	920	400/230	40	240	36.0/62.0	200	165	182
	K 2714A6								162
20.0	K 3517B6	930	400/230	40	240	60.0/104.0	330	340	230
22.0	K 3517-6	950	400/230	40	240	42.0/72.0	360	390	230
	K 3517A6								220
25.0	K I 3517-6	930	400/230	40	240	66.0/114.0	450	420	230
1.0/7.5	K 2714A24/4	200/1400	400	25/50	300	11.0/15.0	100	95	148
	K 2714B24/4								145
1.7/12.5	K 3317-24/4	200/1430	400	25/50	300	15.0/23.0	140	135	221
	K 3317A24/4								206
3.7/22.0	K 3518-24/4	210/1400	400	10/30	180	71.0/48.0	360/380	280	252
	K 3518A24/4								242
1.9/7.5	K 2714A16/4	320/1410	400	25/50	300	15.5/14.5	130/120	95	148
3.25/13.0	K 3317-16/4	350/1420	400	25/50	300	23.0/25.5	180	155	221
	K 3317A16/4								206
3.0/13	K 3517-24/6	220/960	400	10/40	240	40.0/30.0	215	180	230
	K 3517A24/6								220
4.0/16.0	K 3518-24/6	210/950	400	10/40	240	70.0/36.0	360/300	290	252
	K 3518A24/6								242

ED / CD – Arbeitsregime / Cyclic duration factor

c/h / SF – Einschaltungen pro Stunde/ Number of switches per hour

*Arbeit nur mit Frequenzregler / Working only with frequency inverter

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]															Welle / Shaft	
	a	b	c	e*	n	g	f	h	m	d2	d3	d4	d5	z x d6	α°	d	L
K 2011-8/2	434	280	300	80	15	18	43	9	172	242	80	275	330	4x13	43	Eв30x1.25x9g	25
K 2011-4																	
K 2012B4	434	280	300	80	15	18	43	9	194	242	80	275	330	4x13	43	Eв30x1.25x9g	25
K 2012A4	468	340	340	90	16	18	47	9	194	292	105	275	370	4x15	45	Eв40x2.0x9g	30.6
K 2714-4	518	340	340	90	16	18	47	10	251	292	105	376	370	4x15	45	Eв40x2.0x9g	30.6
K 2714A6	554	410	410	1 13	19	22	57	17	251	362	120	376	440	4x19	45	Eв45x2.0x9g	33
K 2714-6	554	470	470	1 17	23	22	62	25	251	425	130	376	520	4x19	45	Eв45x2.0x9g	37
K 2714B24/4	515	280	300	80	14	18	43	9	226	242	80	366	330	4x13	45	Eв30x1.25x9g	25
K 2714A24/4	510	340	340	90	17	18	47	10	226	292	105	366	370	4x15	45	Eв40x2.0x9g	30.6
K 2714A16/4																	
K 3317A24/4	577	410	410	1 13	19	22	57	14	257	362	120	418	440	4x19	45	Eв45x2.0x9g	33
K 3317A16/4																	
K 3317-24/4	585	470	470	1 17	23	22	62	14	257	425	130	418	520	4x19	45	Eв45x2.0x9g	37
K 3317-16/4																	
K 3517A6	570	410	410	1 13	19	22	57	17	266	362	120	438	440	4x19	45	Eв45x2.0x9g	33
K 3517A24/6																	
K 3518A24/6	576	410	410	1 13	19	22	57	17	266	362	120	438	440	4x19	45	Eв45x2.0x9g	33
K 3518A24/4																	
K 3517-4	570	470	470	1 17	23	22	62	25	266	425	130	438	520	4x19	45	Eв45x2.0x9g	37
K 3517B6																	
K 3517-6	570	470	470	1 17	23	22	62	25	266	425	130	438	520	4x19	45	Eв45x2.0x9g	37
K I 3517-6																	
K 3517-24/6	576	470	470	1 17	23	22	62	25	266	425	130	438	520	4x19	45	Eв45x2.0x9g	37
K 3518-24/6																	
K 3518-24/4	576	470	470	1 17	23	22	62	25	266	425	130	438	520	4x19	45	Eв45x2.0x9g	37
K II 3518-4																	

* Arbeitslage. Toleranz der Bremslage - max 2.5 mm / At operation mode. At idle mode the maximum tolerance is 2.5 mm

Asynchronmotoren, Serie KKT mit eingebauter Bremse für Hubanlage, Serie T

- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F, Mögliche Ausführung H
- Arbeitsregime, Bestellung nach:
25%/150h-1, 30%/180h-1 oder 10/25%/180h-1
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 54, IP22 der Bremse (EN60529)
- Flanschführung-IM B5 (EN 60034-7)
- Möglichkeit um Thermoschutz einzubauen

Anwendung: Antrieb der Hubwerke

Asynchronous electric motors KKT series with built-in brake for traveling mechanisms T series

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F, optional H
- On request the duty cycle could be:
25%/150 h⁻¹, 30%/180 h⁻¹ or 10/25%/180 h⁻¹
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 54, brake protection IP 22 (EN 60529)
- Flange joining IM B5 (EN 60034-7)
- Optional thermal protection

Application: For traveling mechanisms

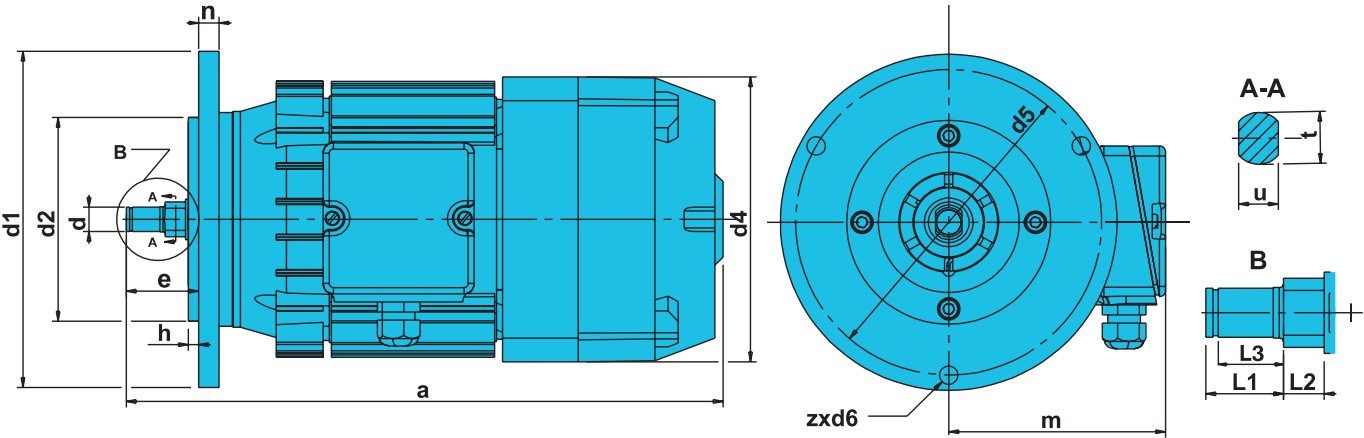




Neenndaten / Rated data

Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min ⁻¹	V	%	sw/h	A	Nm	Nm	kg
0.12	KKT63-6	860	400/230	40	120	0.85/1.5	3.2	1.2	6.9
0.25	KKT71-6	910	400/230	40	120	1.4/2.4	6.5	2.2÷3.0	11.5
0.37	KKT80-6	910	400/230	40	120	1.5/2.6	10.0	3.0	14
0.55	KKT80P6	940	400/230	40	120	2.2/3.8	13.0	3.6÷4.1	15
0.75	KKT90-6	860	400/230	40	240	3.2/5.5	14.0	6.8÷7.8	21
0.18	KKT63-4	1300	400/230	40	120	0.9/1.6	3.3	1.2	6.9
0.37	KKT71-4	1350	400/230	40	120	1.4/2.4	6.5	2.2÷3.0	11.5
0.55	KKT80-4	1350	400/230	40	120	1.8/3.1	10.0	3.5	14
0.75	KKT80P4	1360	400/230	40	120	2.2/3.8	14.0	3.6÷4.1	15
0.06/0.12	KKT I 80B12/6	450/950	400	20/40	240	0.7/0.7	2.5/2.0	1.1	13.8
0.12/0.25	KKT80-12/6	440/940	400	20/40	240	1.4/1.2	4.5/4.5	2.4÷2.8	14.5
0.18/0.37	KKT80P12/6	440/900	400	20/40	240	1.9/1.6	7.2/6.5	3.6÷4.1	15
0.37/0.75	KKT90P12/6	420/930	400	20/40	240	3.5/3.5	13.5/13.0	6.8÷7.8	24
0.06/0.18	KKT I 80B12/4	450/1400	400	20/40	240	0.7/0.6	2.5/2.2	1.1	13.8
0.08/0.25	KKT 80B12/4	450/1400	400	20/40	240	0.95/0.9	3.2/3.2	1.3÷1.6	14.5
0.12/0.37	KKT80-12/4	440/1390	400	20/40	240	1.4/1.4	4.5/4.0	2.4÷2.8	14.5
0.18/0.55	KKT80P12/4	440/1400	400	20/40	240	1.9/1.75	7.2/7.2	3.6÷4.1	15
0.25/0.75	KKT90-12/4	430/1410	400	20/40	240	2.4/2.0	9.0/9.0	4.9÷5.7	21
0.37/1.1	KKT90P12/4	420/1410	400	20/40	240	3.5/3.5	13.5/13.5	6.8÷7.8	24

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]										Welle / Shaft					
	a	e	h	n	m	d1	d2	d4	d5	z x d6	d	L1	L2	L3	t	u
KKT63	244	29.5	5	8	115	135	60	138	120	3x7	10	19	8	17.3	15	11
KKT71	292	35.5	5	10	110	165	100	140	150	3x9	12	19	10	17.3	17	13
KKT I 80	290	29.5	5	8	120	135	60	158	120	3x7	10	19	10	17.3	17	11
KKT80	310	35.5	4	10	120	165	100	158	150	3x9	12	19	10	17.3	17	13
KKT80B																
KKT80B																
KKT90	330	35.5	4	8	130	165	100	178	150	3x9	12	19	10	17.3	17	13
KKT90P	360															

Asynchronmotoren, Serie AK mit eingebauter Bremse fuer Getriebemotoren

- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 54, IP22 der Bremse (EN60529)
- Flanschausfuehrung-IM B5 (EN 60034-7)
- Moeglichkeit um Thermoschutz einzubauen

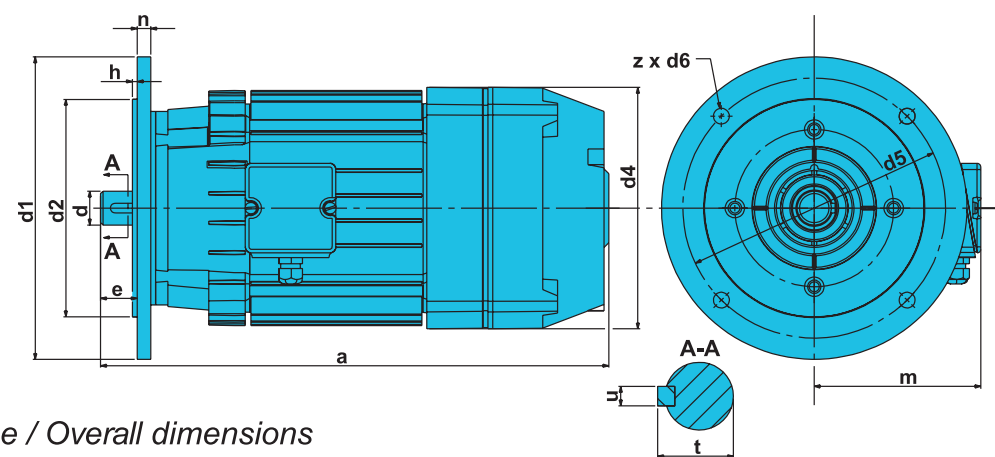
Asynchronous electric motors AK series with built-in brake for geared motors

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 54, brake protection IP 22 (EN 60529)
- Flange joining-IM B5 (EN 60034-7)
- Optional overheat protection



Nenndaten / Rated data

Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min ⁻¹	V	%	sw/h	A	Nm	Nm	kg
0.06/0.25	AK 71B 8/2	660/2700	400	15/25	180	1.2/0.75	2,6/2,6	1,25	11
0.06/0.3	AK 71 8/2					1.2/1.2		1.5	
0.30	AK 71-2	2700				1.2/2.1	2,6	1,5	
0.25	AK 71B 4	1350	400/230	40	240	0.85/1.5	5.0	1.3÷1.9	
0.37	AK 71-4					1.3/2.3	6.5	2.2÷3.0	14,5
0.08/0.25	AK 80B12/4	450/1400		20/40	240	0.9/0.85	3.2/3.2	1.3÷1.6	
0.12/0.37	AK 80-12/4	440/1390		20/40	240	1.4/1.4	4.5/4.0	2.4÷2.8	
0.12/0.25	AK 80-12/6	440/940		20/40	240	1.4/1.2	4.5/4.5	2.4÷2.8	
0.12/0.37	AK 80PD12/4	440/1400	400	25/50	300	1.4/1.3	6.0/5.4	2.4÷2.8	15
0.13/0.55	AK 80-8/2	550/2550		15/25	160/80	1.4/1.8	4.3/4.3	1.6÷2.0	
0.18/0.55	AK 80P12/4	440/1400		20/40	240	1.9/1.8	7.2/7.2	3.6÷4.1	
0.18/0.37	AK 80P12/6	440/900		20/40	240	1.9/1.6	7.2/6.5	3.6÷4.1	
0.6	AK 80-2	2800	400/230	40	240	1.7/3	7	1.6÷2.0	14
0.55	AK 80-4	1350				1.8/3.1	10.0	3.6÷4.1	
0.37	AK 80-6	910				1.5/2.6	10.0	3.6÷4.1	15
0.75	AK 80P4	1360				2.1/3.6	14.0	4.4÷5.2	
0.55	AK 80P6	940				2.2/3.8	13.0	4.4÷5.2	21
0.18/0.55	AK 90D12/4	430/1410		25/50	300	1.6/1.5	7.0/7.0	3.2÷3.8	
0.25/0.75	AK 90-12/4	430/1410		20/40	240	2.4/2.0	9.0/9.0	4.9÷5.7	
0.25/0.75	AK 90PD12/4	420/1410	400	25/50	300	2.0/1.9	8.0/8.0	4.9÷5.7	
0.3/0.9	AK 90PB12/4	420/1410		25/50	300	2.4/2.4	11.0/11.0	6.8÷7.8	24
0.37/1.1	AK 90P12/4	420/1410		20/40	240	3.4/3.4	13.5/13.5	6.8÷7.8	
0.37/0.75	AK 90P12/6	420/930		20/40	240	3.5/3.5	13.5/13.0	6.8÷7.8	
1.1	AK 90-4	1380	400/230	40	240	2.7/4.7	15.0	6.8÷7.8	
1.5	AK 90-2	2620				3.9/6.8	11.5	6.8÷7.8	21
0.75	AK 90-6	860				3.2/5.5	14.0	6.8÷7.8	
1.5	AK 90P4	1380				4.1/7.1	30.0	9.0÷10	24
1.1	AK 90P6	890				4.0/6.9	28.0	9.0÷10	
0.37/1.1	AK 100D12/4	390/1390		25/50	300	3.2/3.4	12.0/18.0	5.4÷6.4	32
0.5/1.5	AK 100-12/4	420/1410	400	20/40	240	4.5/4.3	17.0/23.0	6.8÷7.8	
0.5/1.5	AK 100PD12/4	390/1400		25/50	300	4.2/5.1	17.0/23.0	6.8÷7.8	
0.75/2.2	AK 100P12/4	420/1410		20/40	240	6.4/6.8	25.0/33.0	9.3÷10.7	
2.2	AK 100-4	1380	400/230	40	240	5.2/9.0	35.0	9.3÷10.7	32
1.5	AK 100-6	910				5.5/9.5	36.0	9.3÷10.7	
2.2	AK 100P6	920				7.0/12.2	41.0	13.5÷15.5	36,5
3.0	AK 100P4	1380				6.6/11.5	46.0	13.5÷15.5	



Anschlussmasse / Overall dimensions

Typ / Type	Abmessungen / Dimensions [mm]										Welle / Shaft		
	a	m	e	h	n	d1	d2	d4	d5	z x d6	d	t	u
AK 71	285	115	30	3.5	9	160	110	140	130	4x9	14	16	5
AK 80, AK 80 P	312	120	40	3.5	10	200	130	160	165	4x11	19	21.5	6
AK 90/ AK 90 P	340/370	130	50	3.5	10	200	130	178	165	4x11	24	27	8
AK 100/ AK 100 P	416/446	136	60	4.0	11	250	180	200	215	4x13	28	31	8

**Asynchronmotoren
mit eingebauter Bremse
mit Al-Mantelteilen
fuer Kettenzuege**

- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 44, IP22 der Bremse (EN60529)
- Flanschsaufuehrung-IM B5 (EN 60034-7)
- Moeglichkeit um Thermoschutz einzubauen

Anwendung: Hubwerk
der Kettenzuegen

**Asynchronous electric motors
with built- in brake
with aluminum body
for chain hoists**

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 44, brake protection IP 22 (EN 60529)
- Flange joining-IM B5 (EN60034-7)
- Optional thermal protection

Application: Main lifting mechanism
of chain electric hoists

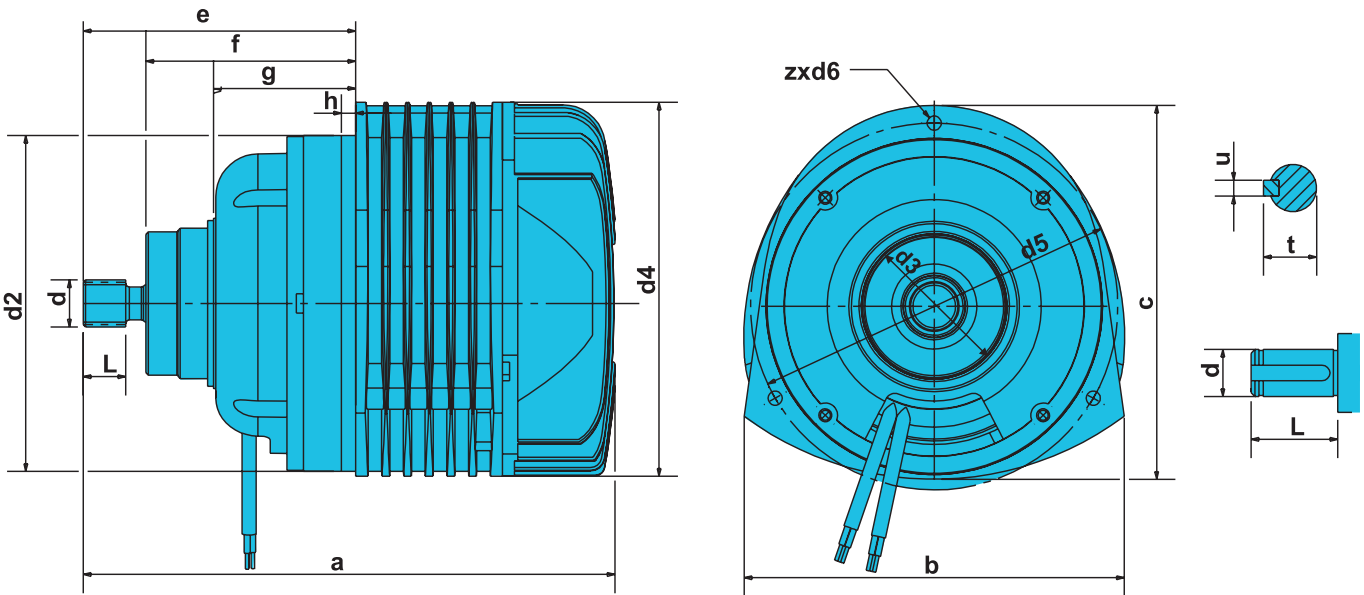




Nerndaten / Rated data

Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min ⁻¹	V	%	h ⁻¹	A	Nm	Nm	kg
0.18	KГ 1405 B4	1320	400/230	40	240	0.9/1.5	3.5	2.4	8.8
0.36	KГ 1405-4 KГ II 1405-4	1320	400/230	40	240	1.1/1.9	4.5	3.7	8.8
0.55	KГ II 1405-4 KH 1405-4	1320	400	40	240	1.9	10	6.8	9
0.06	KГ 1405-12 KГ II 1405-12	400	400	40	240	1.0	2.3	2.0	9.2
0.06/0.18	KГ 1405B12/4	400/1320	400	10/40	240	1.5/0.9	3.0/3.5	2.4	9.2
0.11/0.36	KГ 1405-12/4 KГ II 1405-12/4	400/1320	400	10/40	240	2.0/1.4	4.8/4.8	3.7	9.2
0.24/0.76	KГ II 1606-12/4 KH 1606-12/4	400/1370	400	10/40	240	3.6/2.5	9.0	9.5	14.5
0.76	KГ II 1606-4	1375	400/230	40	240	2.5/3.3	11.0	10.0	14.5
1.1	KГ I 1606-4 KH 1606-4	1375	400	40	240	3.9	18	10.5	15

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]												Welle / Shaft			
	a	b	c	e	f	g	h	d2	d3	d4	d5	zxd6	d	L	t	u
KГ 1405	226	161	158	115	88.5	60	6	142	63.5	155	155	3x6	20	18	-	-
KГ I 1405													z=14 m=1.25			
KГ II 1405	230	161	158	115	88.5	60	6	142	63.5	155	155	3x6	12	22	13.5	4
KH 1405	226	161	158	112	88.5	60	6	142	63.5	155	155	3x6	Eв20x1.5x12S3aX	10	-	-
KГ II 1606	268	252	182	145	110	78	8	175	69.5	186	186	4x7	20.75	20	-	-
KГ 1606													z=14 m=1.25			
KГ I 1606													15.5			
KH 1606	250	252	182	130	110	78	8	175	69.5	186	186	4x7	Eв20x1.5x12S3aX	-	-	-

Asynchronmotoren
Serie KV-Ex fuer Hubwerke
der Ex-Zuege

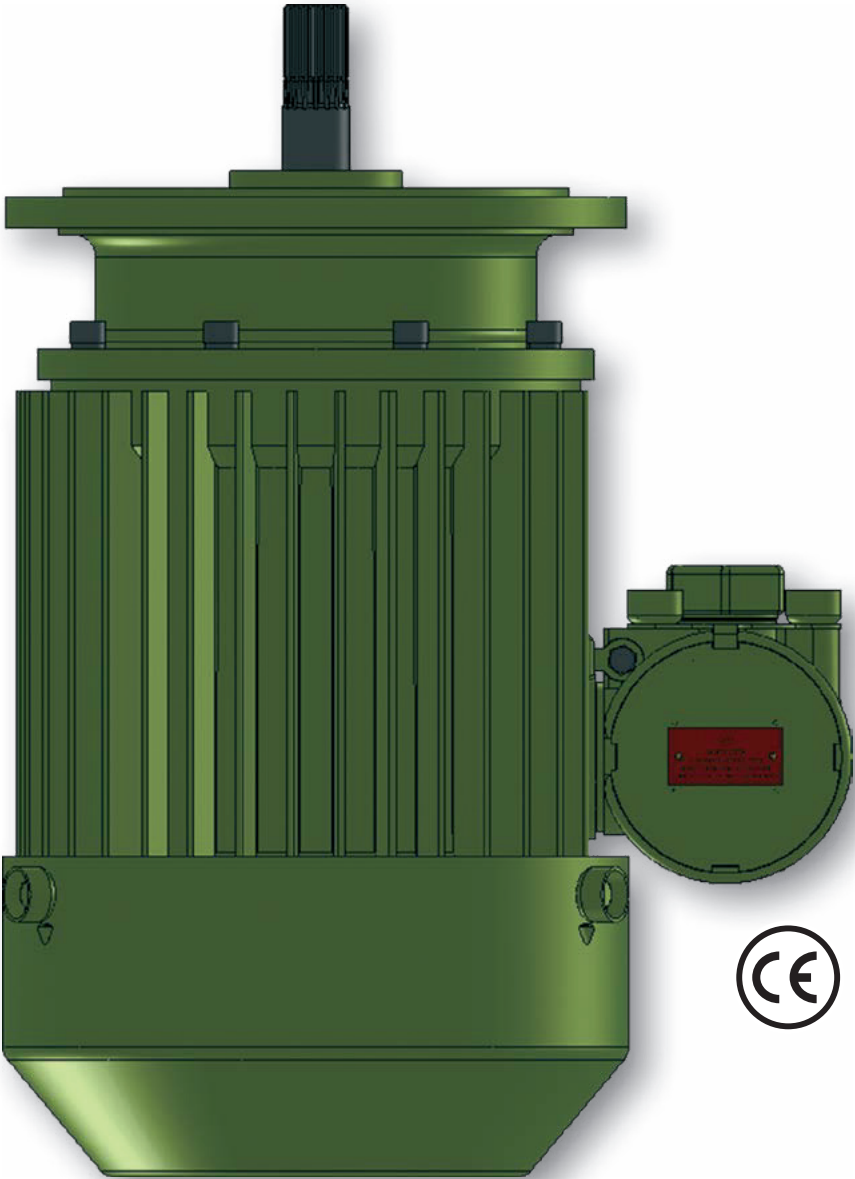
- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 44, IP54 der Bremse (EN60529)
- Flanschausfuehrung
- Mit eingebautem Thermoschutz
- Ex-Undurchlaessigeausfuehrung
EN5018 Ex (d) IIBT5,
EX (d) IIC T5

Anwendung: Hubwerk bei Ex-Zuegen

Asynchronous electric motors
KV-Ex series for main lifting mechanism
of explosion-proof electric hoists

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 44 (EN60529)
- Flange mount
- Overheat protection
- Explosive atmospheres and marking
according to EN5018 Ex (d) IIBT5,
EX (d) IIC T5

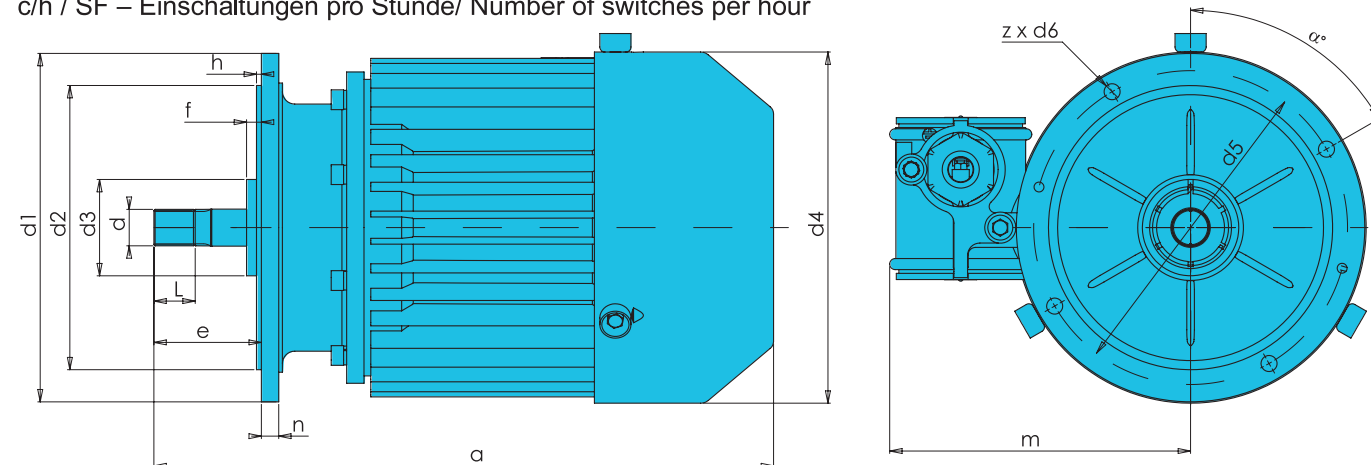
Applications: Main lifting mechanism
of explosion-proof electric hoists



Nenndaten / Rated data

Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW		min ⁻¹	V	%	h ⁻¹	A	Nm	Nm	kg
0.75	KV0501-6Ex	910	400	40	240	3.3	16.4	10.8	40
1.1	KV0501-4Ex	1360	400	40	240	3.6	15	18	40
0.25/0.75	KV0504-12/4Ex	430/1360	400	20/40	240	3.0/3.0	11.0	8.0	46
1.5	KV1001-6Ex	910	400	30	180	5.8	25	23.5	45
2.5	KV1001-4Ex	1300	400	30	180	6.5	26	28	45
0.33/1.5	KV1005-24/6Ex	200/930	400	20/40	240	3.7/5.0	29	30	82.5
0.33/2.2	KV1005-24/4Ex	200/1400	400	20/40	240	3.7/6.2	29	30	82.5
0.5/1.5	KV1004-12/4Ex	460/1430	400	15/30	180	5.0/6.0	22/26	20	54
3.0	KV2002-6Ex	930	400	30	180	9.0	60	43	70
4.5	KV2001-4Ex	1400	400	30	180	12.0	60	78	70
6.0	KV2003-4Ex	1420	400	40	240	14.5	135	55	120
0.7/3.0	KV2003-24/6Ex	210/930	400	20/40	240	6.5/7.5	55	48	120
0.7/4.5	KV2003-24/4Ex	210/1400	400	20/40	240	6.5/9.5	55	55	120
4.5	KV3005-6Ex	920	400	40	240	12.5	78	78	80
8.0	KV4005-6Ex	920	400	40	240	20.0	150	110	148
12.0	KV4005-4Ex	1420	400	40	240	27.5	215	110	148
1.7/8.0	KV4003-24/6Ex	200/920	400	20/40	240	15.0/18.0	140	170	215
1.7/12.5	KV4003-24/4Ex	200/1430	400	20/40	240	15.0/23.0	140	170	215
13.0	KV5005-6Ex KV6005-6Ex	920	400	40	240	26.0	360	225	241
20.0	KV5005-4Ex KV6005-4Ex	1360	400	40	240	38.0	360	225	241
1.7/8.0	KV6005-24/6Ex	200/920	400	20/40	240	15.0/18.0	140	170	241
1.7/12.5	KV6005-24/4Ex	200/1430	400	20/40	240	15.0/23.0	140	170	241
2.0/15.5	KV6005P24/4Ex	210/1400	400	10/40	240	16.0/33.0	152/280	170	241
2.2/10.0	KV6005P24/6Ex	200/920	400	13/27	240/120	19.0/22.5	140	170	241

ED / CD - Arbeitsregime / Cyclic duration factor
c/h / SF - Einschaltungen pro Stunde/ Number of switches per hour



Anschlussmasse / Overall dimensions

Typ / Type	Abmessungen / Dimensions												Welle / Shaft	
	a	e	n	f	h	m	d1	d2	d3	d4	d5	Zxd6	a	L
KV0501														
KV0504	358	67	10		3.5	229	200	130		226	165	4x10.5	45	25x1.5x16S3aX 27
KV1001														
KV1005	516	67	14	12	4	250	250	180	78	284	230	4x9	45	25x1.5x16S3aX 27
KV1004	389	67	14	-	4	229	250	180	-	226	215	4x13	45	25x1.5x16S3aX 27
KV2002														
KV2001	501	87	14	12	4	250	282	230	78	284	254	4x13	60	30x1.5x18S3aX 32
KV2003	574	87	17	30	4	278	300	230	78	350	316	4x13	45	30x1.5x18S3aX 32
KV3005	531	87	14	12	4	250	282	230	78	284	254	4x13	60	30x1.5x18S3aX 32
KV4005	593	67	19	15	4	278	368	250	108	350	332	4x19	9	40x2.0x18S3aX 32
KV4003	653	67	19	20	4	328	368	250	108	416	332	4x19	9	40x2.0x18S3aX 32
KV5005														
KV6005	662	63	22	8	5	328	495	362	118	416	440	4x19	45	45x2.5x16S3aX 37



Asynchronmotoren Serie K-Ex fuer Hubwerke der Ex-Zuege

- Modifikationen Spannung nach, 50 Hz / 60 Hz
- Isolierklasse F
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 44, IP54 der Bremse (EN60529)
- Flanschausfuehrung
- Mit eingebaute Thermoschutz
- Ex-Undurchlaessigeausfuehrung
EN5018 Ex (d) IIBT5,
EX (d) IIC T5

Anwendung: Hubwerk bei Ex-Zuege

Asynchronous electric motors K-Ex series for main lifting mechanism of explosion-proof electric hoists

- Voltage modifications, 50 Hz / 60 Hz
- Insulation class F
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 44 (EN60529)
- Flange mount
- Overheat protection
- Explosive atmospheres and marking
according to EN5018 Ex (d) IIBT5,
EX (d) IIC T5

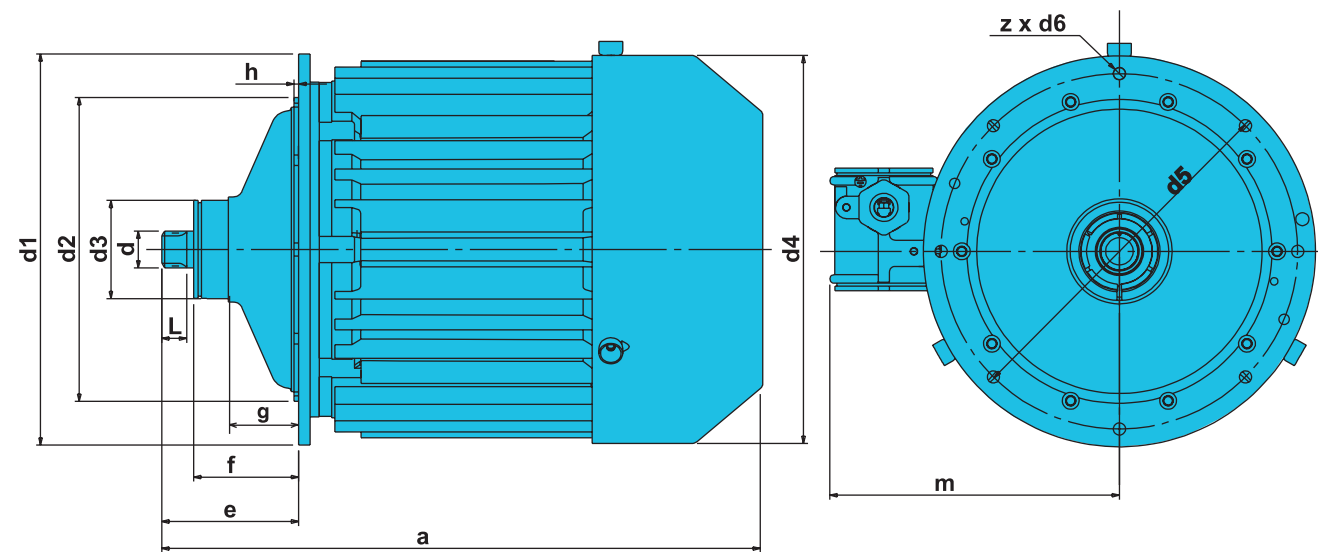
Applications: Main lifting mechanism
of explosion-proof electric hoists



Nenndaten / Rated data

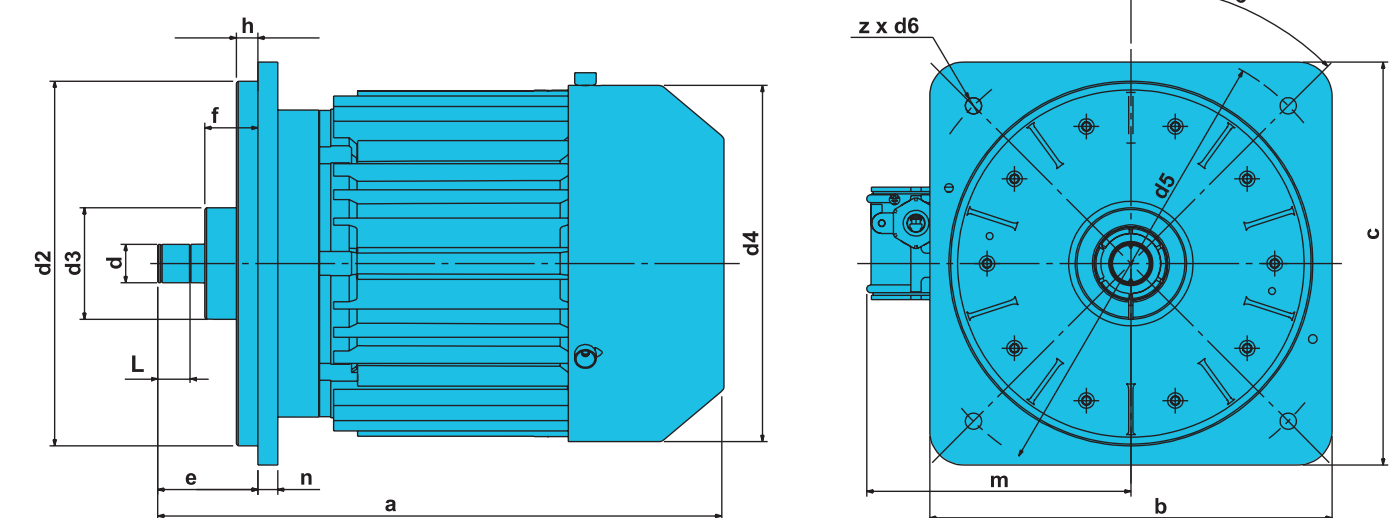
Leistung Power	Typ Type	Drehzahl Rotation speed	Spannung Voltage	Arbeitsregime Duty cycle		Strom Current	Start moment Starting torque	Brems- moment Braking torque	Gewicht Weight
				CD	SF				
kW	-	min ⁻¹	V	%	h ⁻¹	A	Nm	Nm	kg
1.5	K 1608-6Ex	910	400	30	180	5.8	25	23.5	47
2.2	AK1608P6 Ex	910	400	30	180	6.5	45	40	54
3.0	K 2008--6 Ex	930	400	30	180	9.0	60	43	70
4.5	K 2008--4 Ex	1400	400	30	180	12.0	60	43	70
4.5	K 2011-6 Ex	920	400	40	240	12.5	78	78	80
8.0	K 2612-6 Ex	920	400	40	240	20.0	150	110	135
	AK 2612-6 Ex								
0.75/3.0	K 2612-24/6Ex	210/930	400	20/40	240	6.5/7.5	55	48	120
20.0	K 3317-4Ex	1360	400	40	240	38.0	360	225	241
	KI 3317-4Ex								
13.0	K 3317-6Ex	920	400	40	240	26.0	360	225	241
	KI 3317-6Ex								
1.7/8.0	K 3317-24/6Ex	200/920	400	10/40	240	15.0/18.0	140	125	215
	KI 3317-24/6Ex								241
1.7/12.5	K 3317-24/4Ex	200/1430	400	10/40	240	15.0/23.0	140	125	215
	KI 3317-24/4Ex								241

Anschlussmasse / Overall dimensions



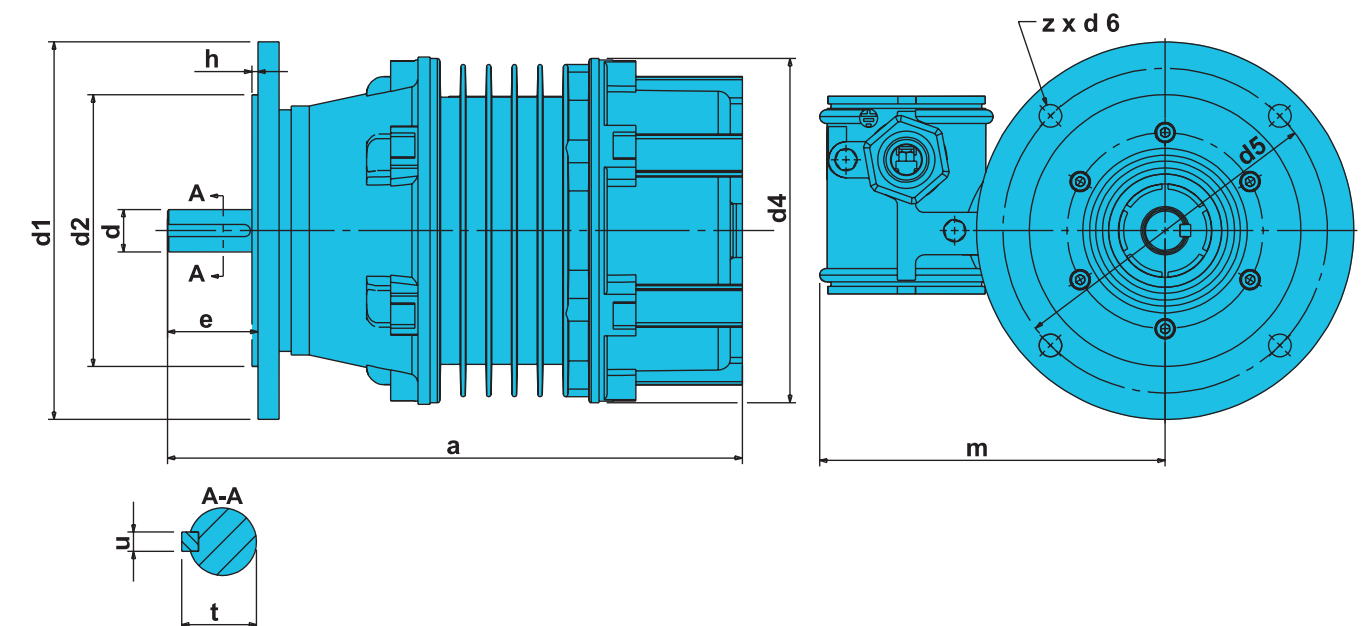
Typ / Type	Abmessungen / Dimensions [mm]												Welle / Shaft	
	a	m	e	f	g	h	d1	d2	d3	d4	d5	z x d6	d	L
K 1608-6Ex	367	225	125	73	44.4	5	260	185	75	226	226	6x9	EB25x1.5x16S3aX	27
K 2008-6Ex	485	250	140	81	51.5	5	345	262	80	255	312	8x11	EB30x1.5x18S3aX	32
K 2011-6Ex	538	250	170	81	51.5	5	345	262	80	255	312	8x11	EB30x1.5x9g	32
K 2612-6Ex	570	270	145	112	75	5	418	325	105	350	380	8x13	EB40x2.0x9g	40
K 2612-24/6Ex	570	270	140	83	51.5	5	345	262	80	350	312	8x11	EB30x1.5x9g	32
K 3317-24/6Ex	640	328	146	112	75	5	418	325	105	415	380	8x13	EB40x2.0x9g	40

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]													Welle / Shaft	
	a	b	c	e	n	f	h	m	d2	d3	d4	d5	z x d6	d	L
K 3317-4Ex	662	470	470	117	23	62	25	328	425	130	415	520	4x19	EB45x2.0x9g	37
K 3317-6Ex															
K I 3317-4Ex															
K I 3317-6Ex															
K I 3317-24/4Ex															
K I 3317-24/6Ex															
													EB45x2.5x9g		

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions [mm]										Welle / Shaft		
	a	m	e	h	d1	d2	d4	d5	z x d6	d	t	u	
AK 1608P6Ex	367	225	60	4	250	180	226	215	4x15	28	31	8	
AK 2612-6Ex	616	270	80	5	250	350	350	300	4x19	38	41	10	

KK-Ex
AKK-Ex

Asynchronmotoren
Serie KK-Ex und AKK-Ex mit
eingebauter Bremse fuer
Ex-Hubanlage

- Modifikationen Spannung nach, 50 Hz/60 Hz
- Isolierklasse F
- Wellenaxialgang 0,5 ÷ 1,0 mm
- IP 44, IP54 der Bremse (EN60529)
- Flanschausfuehrung
- Mit eingebaute Thermoschutz
- Ex-Undurchlaessigeausfuehrung

Anwendung: Fuer Ex-Hubwerke



Asynchronous electric motors
KK-Ex and AKK-Ex series with
built-in brake, for explosion-proof
traveling mechanisms

- Voltage modifications, 50 Hz/60 Hz
- Insulation class F
- Axial shaft run 0,5 ÷ 1,0 mm
- IP 44 / IP 54 (EN60529)
- Flange joining
- Overheat protection
- Explosive atmospheres and marking according to EN5018 Ex (d) IIBT5, EX (d) IIC T5

Applications: For explosion-proof
traveling mechanisms

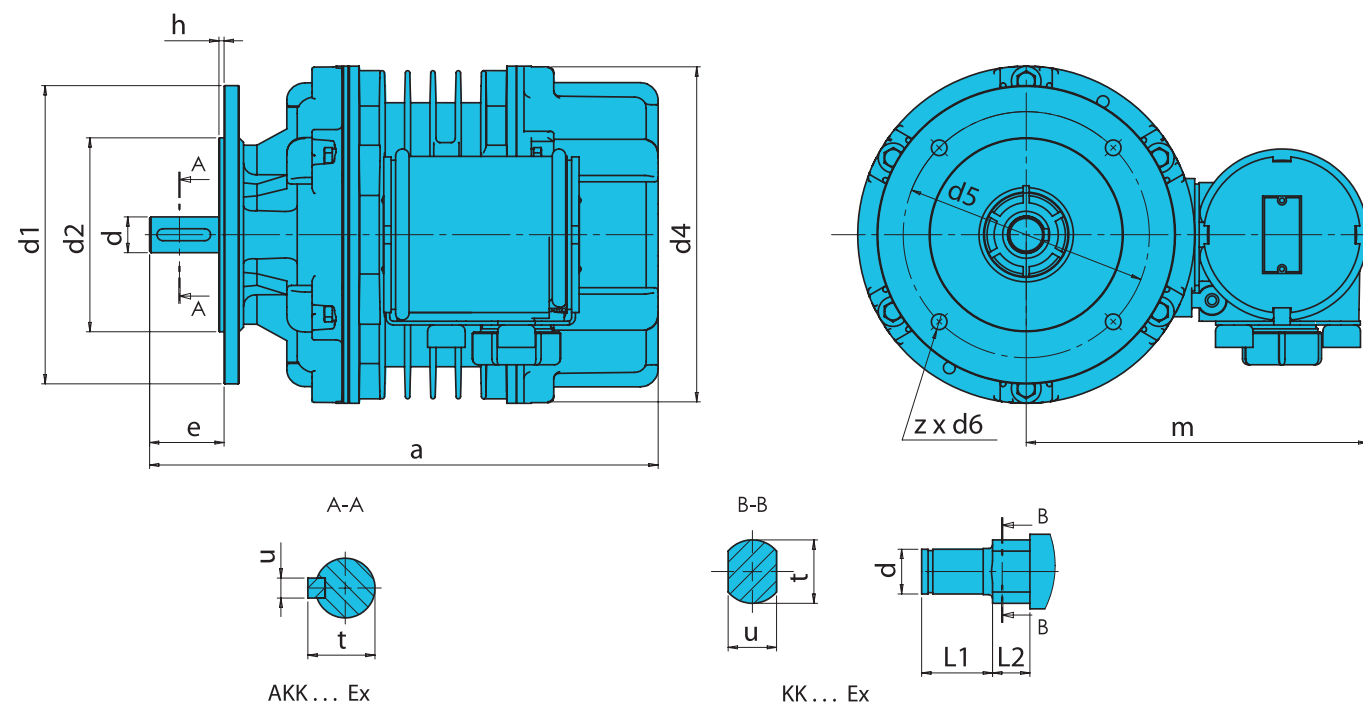


KK-Ex, AKK-Ex

Nenndaten / Rated data

Power	Type	Rotation speed	Voltage	Duty cycle		Current	Starting torque	Braking torque	Weight
				CD	SF				
kW	-	min ⁻¹	V	%	h ⁻¹	A	Nm	Nm	kg
0.12	KK1404-6AEx	910	400	40	240	0.75	2.8	1.1	24
0.18	KK1305-6Ex	910	400	40	240	1.0	4.2	1.1	26
0.25	KK1305P6Ex	900	400	40	240	1.1	5.2	2.2	26
0.18	KK1305B4Ex	1420	400	40	240	1.0	3.0	1.0	26
0.25	KK1305-4Ex	1390	400	40	240	1.1	4.1	1.1	26
0.37	KK1305P4Ex	1360	400	40	240	1.3	6.0	2.2	26
0.06/0.12	KK1305-12/6Ex	420/920	400	20/40	240	1.1/0.9	2.3/3.5	1.1	26
0.06/0.18	KK1305-12/4Ex	420/1420	400	20/40	240	1.1/1.0	2.3/3.5	1.1	26
0.25	KKI1305P6Ex	900	400	40	240	1.1	5.2	2.2	27
0.37	KKI1305P4Ex	1360	400	40	240	1.3	6.0	2.2	27
0.06/0.12	KKI1305-12/6Ex	420/920	400	20/40	240	1.1/0.9	2.3/3.5	1.1	27
0.06/0.18	KKI1305-12/4Ex	420/1420	400	20/40	240	1.1/1.0	2.3/3.5	1.1	27
0.25	KK1608-6AEx	940	400	40	240	1.1	6.0	2.2	46
	KK1608K6AEx								
0.37	KK1608B6Ex	940	400	40	240	1.6	6.0	3.3	46
0.55	KK1608P6AEx	920	400	40	240	2.4	15.8	4	46.5
	KK1608KP6AEx								
0.12/0.25	KK1608B12/6Ex	400/890	400	20/40	240	1.3/1.1	6.0/6.0	3	46.5
0.12/0.37	KK1608B12/4Ex	400/1380	400	20/40	240	1.12/1.2	6.0/5.0	3	46.5
0.25/0.55	KK1608-12/6Ex	400/920	400	20/40	240	2.1/2.2	11.0/14.0	4	46.5
0.25/0.75	KK1608-12/4Ex	400/1350	400	20/40	240	2.1/2.0	11.0/11.0	4	46.5
0.75	KK1605-6Ex	910	400	40	240	3.3	16.5	8.0	41
1.1	KK1605-4Ex	1360	400	40	240	3.6	15.0	8.0	41
0.18	AKK1305-6Ex	910	400	40	240	1.0	4.2	1.1	27
0.25	AKK1305P6Ex	900	400	40	240	1.1	5.2	2.2	27
0.18	AKK1305B4Ex	1420	400	40	240	1.0	3.0	1.0	27
0.25	AKK1305-4Ex	1390	400	40	240	1.1	4.1	1.1	27
0.37	AKK1305P4Ex	1360	400	40	240	1.3	6.0	2.2	27
0.06/0.18	AKK1305-12/4Ex	420/1420	400	20/40	240	1.1/1.0	2.3/2.6	1.1	27
0.06/0.12	AKK1305-12/6Ex	420/920	400	20/40	240	1.1/0.9	2.3/3.5	1.1	27
0.25	AKK1608-6Ex	940	400	40	240	1.1	6.0	2.2	46.5
0.37	AKK1608B6Ex	940	400	40	240	1.6	6.0	3.3	46.5
0.12/0.25	AKK1608B12/6Ex	400/890	400	20/40	240	1.3/1.1	6.0/6.0	3	46.5
0.12/0.37	AKK1608B12/4Ex	400/1380	400	20/40	240	1.3/1.2	6.0/5.0	3	46.5
0.37	AKK1608-4Ex	1410	400	40	240	1.2	15.0	3.3	46.5
0.55	AKK1608P6Ex	940	400	40	240	1.1	6.0	2.2	47
	AKKI1608P6Ex								
0.25/0.75	AKK1608-12/4Ex	400/1350	400	20/40	240	2.1/2.0	11.0/11.0	4	47
	AKKI1608-12/4Ex								
0.25/0.55	AKK1608-12/6Ex	400/920	400	20/40	240	2.1/2.2	11.0/14.0	4	47
	AKKI1608-12/6Ex								
0.75	AKK1605-6Ex	910	400	40	240	3.3	16.5	8.0	41
	AKKI1605-6Ex								
1.1	AKK1605-4Ex	1360	400	40	240	3.6	15.0	8.0	41
	AKKI1605-4Ex								
30	AKII1609-4Ex	1350	400	40	240	7.0	42.0	20.0	54
1.5	AKII1608-6Ex	910	400	40	240	3.8	30	10.5	47
2.2	AKII1608P6Ex	910	400	40	240	6.5	45	17	54
0.5/1.5	AKII1609-12/4Ex	460/1410	400	20/40	240	3.8/3.5	17.5/20.5	11	54

Anschlussmasse / Overall dimensions



Typ / Type	Abmessungen / Dimensions									Welle / Shaft				
	a	e	h	m	d1	d2	d4	d5	z x d6	d	L1	L2	t	u
KK1404 Ex	250	29.5	6	202	135	60	170	120	3x9	10	19	7	17	11
KK1305 Ex	280								3x7					
KKI1305 Ex	299	35.5	5	202	165	100	170	150	3x9	12	19	10	17	13
KK1608 Ex	325	35.5	5	225	165	100	226	150	3x9	12	19	10	17	13
KK1605 Ex														
AKK1305 Ex	302	40	3.5	202	200	130	170	165	4x11	19	-	-	21.5	6
AKK1608-6Ex	335	40	3.5	225	200	130	226	165	4x10.5	19	-	-	21.5	6
AKK1608B6Ex														
AKK1608B12/4Ex														
AKK1608-4Ex														
AKK I1608P6Ex														
AKK I1608-12/4Ex														
AKK I1608-12/6Ex														
AKK I1605-6Ex														
AKK I1605-4Ex	345	50	3.5	225	200	130	226	165	4x10.5	24	-	-	27	8
AKK1608P6Ex														
AKK1608-12/4Ex														
AKK1608-12/6Ex														
AKK1605-6Ex														
AKK1605-4Ex														
AKII1608-6Ex	367	60	4	225	250	180	226	215	4x15	28	-	-	31	8
AKII1608P6Ex														
AKII1609-12/4Ex														

