TECHNICAL DATA





Designation							
Rated motor po	wer						
♦ Power for no	rmal bra	aking	kW				
◆ Power for light	nt duty b	raking	kW				
Minimum motor	power		kW				
Rated voltage			V				
Control voltage			V				
Max. braking cu	urrents	I _B (10 s)	Α				
Braking duty:							
 Convection 		+40 °C	%				
 10 mm space 	ce	+40 °C	%				
 10 mm space 	ce	+50 °C	%				
-		+50 °C	%				
 Fan (Option 	ı)	+35 °C	%				
Utilization cated (EN60947-4-2)	jory.						
	ion (flexi ring to E	ble with N60204-1 otection on	mm²				
Weight							
Dimensions: Height							
	Width		mm				
	Depth		mm				
Clearance for:	upper		mm				
cooling	lower left, ric	nht.	mm mm				
Order no	ieri, IIÇ	Ji it	111111				

				2000				11/2/	
LEKTROMIK B1					LEKTROMIK B4				
2B1-14	5B1-14	7B1-14	3B1-14/230	4B1-14/230	15B4-26	45B4-26	90B4-26	200B4-26	
2,2	5,5	7,5	3	4	15	45	90	200	
,	-,-	,-			22	55	132	250	
0,25	1,1	1,1	0,55	0,55	1,1	4,0	11	22	
2AC 400				2AC 230 2AC 220500					
						2A0	230		
11	30	36	30	36	52	150	300	700	
10	3	15	3	15	25	15	12	7	
15	5	15							
7	2	10							
					15	10	8	5	
					-	50	50	25	
11 A: AC-53a: 1-10: 10-36	30 A: AC-53a: 1-10: 3-11	36 A: AC-53a: 1-10: 15-54	30 A: AC-53a: 1-10: 3-11	36 A: AC-53a: 1-10: 15-54	without fan 52 A: AC-53a: 1-10: 25-90	without fan 150 A: AC-53a: 1-10: 15-54	without fan 300 A: AC-53a: 1-10: 12-43	without fan 700 A: AC-53a: 1-10: 7-25	
	Ferrules		Fer	Ferrules		Cable shoe			
1,02,5	1,52,5	1,52,5	1,52,5	1,52,5	M5; 2,510	M5; 2,535	M8; 10120	M8; 1018	
•	•	•	•	•	• FAN3	• FAN3	• FAN2	• FAN2	
IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP00/IP20 *)	IP00/IP20	
0,4	0,45	0,65	0,45	0,65	3,5	3,5	12	16	
75 45 120	75 45 120	75 60 120	75 45 120	75 60 120	226 164 150	226 164 150	300 260 250	300 260 250	
					80 80 10	80 80 10	100 100 -	100 100 -	
8031.312	8031.315	8031.317	8031.213	8031.214	8035.322-100	8035.326-100	8035.329-100	8035.333-10	

Available types	IFKIRUMIK	Rated supply voltage	Rated unit power [kW]								
			2,2	3	4	5,5	7,5	15	45	90	200
	B1	2AC 400 V	•			•	•				
		2AC 230 V		0	0						
	B4	2AC 220500 V						●c (UL) es	⊕ c (UL) es	●c(UL)us	•

Standard

RANGE OF APPLICATION

LEKTROMIK	Supply voltage	Rated motor power [kW] / Rated braking current [A]									
		7,5	15	18	22	45	55	90	110	200	250
B4	2AC 220240 V	15B4 52 A			45B4 150 A	90B4 300 A			200B4 700 A		
	2AC 380440 V		15B4 52 A			45B4 150 A		90B4 300 A		200B4 700 A	
	2AC 460500 V			15B4 52 A			45B4 150 A		90B4 300 A		200B4 700 A

Options	Designation	Electrical data	Order no
	OPTION B4IP20	90/200 kW IP20 protection	Please inquire
	OPTION 4.7MF	Capacitor 4.7 µF	0523.109
	FAN2 / 230	Fan module 2AC 230 V	6019.220
	FAN3 / 230	Fan module 2AC 230 V	6019.320

Optimum drive solutions from 0.25 up to 2000 kW and from 110 up to 690 V

Technical data subject to change without notice

Higher powers on request



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O on request

PO-LB14-EN-11-11-21







INJECTION BRAKING UNITS

Soft Braking Electric Motors

Maintenance-Free Braking

STATE-OF-THE-ART ELECTRONIC DEVICES FOR THE MAINTENANCE-FREE BRAKING OF THREE PHASE INDUCTION MOTORS



Three-phase induction motors are the most commonly used of all the electric motors. Since frequency inverters have been available at a favorable price, three-phase motors are also being increasingly used for variable-speed applications instead of DC drives. Many machines and pieces of equipment have relatively high moments of inertia. When the machine or piece of equipment is powered down, it continues to run for a correspondingly long time.

Mechanical friction brakes are usually integrated in the motor in the form of a braking motor. However, as soon as braking energy and the braking frequency exceed a certain limit, it is hazardous to both man and the machine.

KIMO Industrie-Elektronik GmbH, Germany have developed a technology to use the existing drive motor as electrical brakes without the use of any mechanical parts.



• One time investment

- Easy integration with system
- Requires no maintenance
- Fast braking for better safety
- No wear and tear of machines
 - Waiting time to change or service eliminated



The product is completely manufactured in Germany, taking into consideration the highest industrial standards and precision.

The product guarantees high reliability and long life.



The product is used for squirrel-cage induction motors and asynchronous motors. For further enquiry on usage and applicability please contact us at e-info@kimo.de

> or visit us at www.kimo.de.

A permanent solution

any attempt to spin it.

for all braking needs

HOW DOES IT WORK?

AC motors work by using a rotating magnetic field created by the alternating current in the stator windings which induces magnetic field in the rotor windings making it to spin to balance out the poles and as the rotor's magnetic field attempts to stay in sync with the stator's magnetic field by mutual attraction, it rotates. A DC current is injected to the electric motor which creates a stationary magnetic field which will now try to hold the rotor in one position. This slows and eventually halts the rotor completely. As long as the DC voltage is applied to the stator, the rotor will be held in position and resistant to

Overview of typical applications of electronic braking devices

SALIENT FEATURES

• Fast braking 0.4 - 2 s

depending on power

contactors

• Easily retrofitted without any mechanical modification

• Simple connection with

standard contactors

detection of zero-speed

separately adjustable

• Reduce free running time

• Can be used without braking

• Integrated automatic electronic

• Braking current and braking time

Machine type	Danger	Accident prevention measures	Productivity	Typical starting times	
			Function	without brake	with brake
Meat saws for abattoirs	Human / Injury	In preparation		8 s	1 s
Circulating fans in steam furnaces/ovens	Human / Injury (Burn)	In preparation		3 s	0,6 s
Centrifuges			Important	30 min	4 min
Crane traversing drives			Necessary	20 s	5 s
Saws and milling tools in the woodworking industry		Braking ≤ 10 s		20 s	2-6 s
Roller operations in the steel industry			Necessary	10 s	2 s

APPLICATION

The emphasis of electrical braking is to have a cost-effective design for rugged industrial use and to have an essential advantage of the braking devices.

MAINTENANCE-FREE BRAKING WITH

WIDE RANGE OF APPLICATION



Space saving in the electrical enclosure using a new type of operation without braking contactor and to have improved braking torque for high power drives.

Some of the major applications are listed below.

- Woodworking machines
- Grinding machines
- Conveyor belts
- Vibrators
- Centrifuges, mills, compactors
- Roller-table drives
- Cranes

