

Movement by Perfection



The Royal League in ventilation, control and drive technology

ZAsbc4

The electronic brake control

Welcome to the world of ZIEHL-ABEGG

Top technology made by ZIEHL-ABEGG

The lift in the world-famous basilica 'La Sagrada Família' in Barcelona, cable-driven underwater vehicles and even computer tomographs – drive technology from ZIEHL-ABEGG is used around the world, handling all manner of applications and providing reliability under extreme conditions.

The Künzelsau-based company ZIEHL-ABEGG SE has developed and built truly efficient, durable and robust electric motors for over 100 years. However, the company is also a trend-setter in terms of fan technology and in the application of the principles of bionics.

More than half of the company's 3,700 employees work in southern Germany. This is also home to the world's largest combined measuring and test bench for fans, which is able to simultaneously measure sound and efficiency. Annual research and development expenditure amounts to some seven per cent of turnover. These framework conditions have enabled ZIEHL-ABEGG to set global standards in the efficiency and sound characteristics of motors and fans over a number of decades.

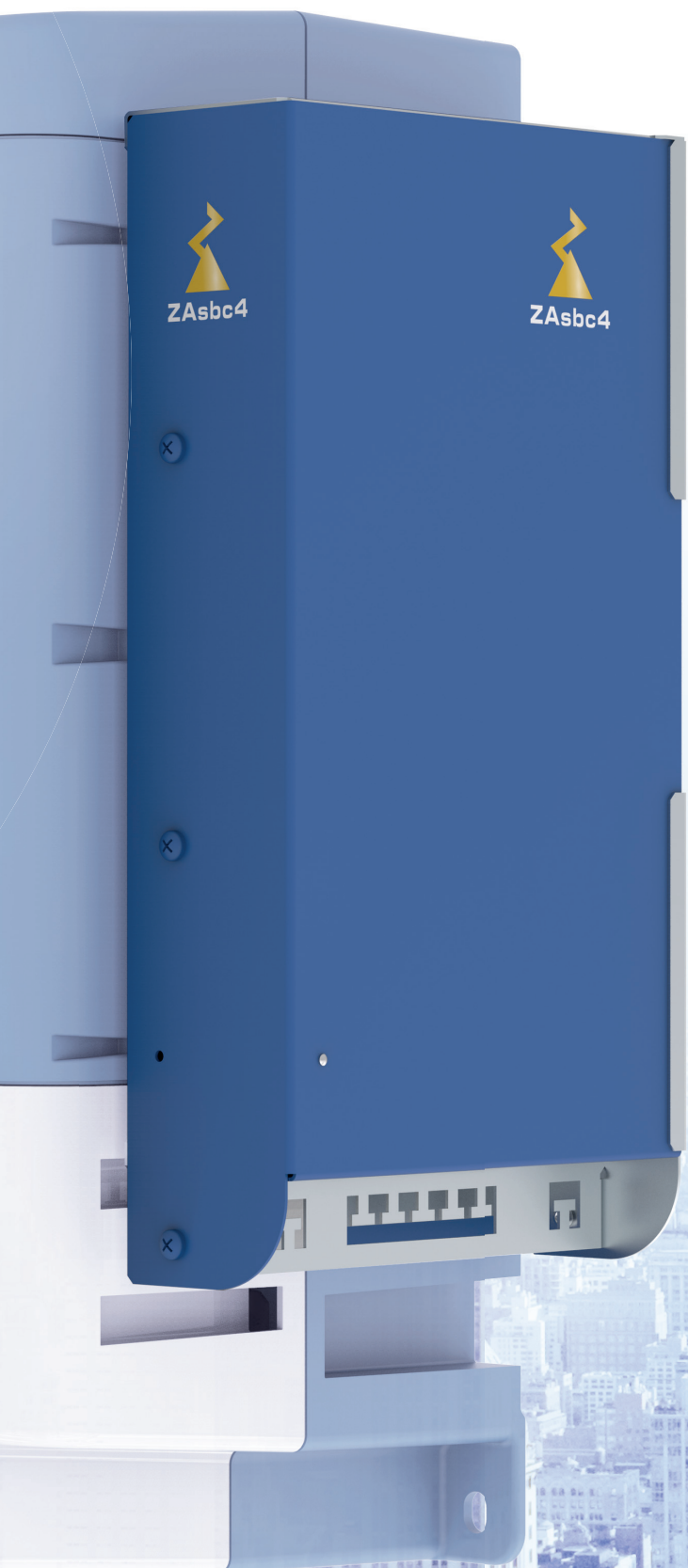
The high-tech company was founded by Emil Ziehl in 1910 as a manufacturer of electric motors. ZIEHL-ABEGG SE is not listed on the stock market and is entirely family-owned.

Global sales network and production group

ZIEHL-ABEGG has 28 subsidiaries worldwide. With over 100 dedicated sales offices, the company is able to operate in close proximity to customers across the globe. This makes it possible to tap into trends and developments around the world that can be incorporated into product development. 18 international production sites deliver consistent product quality on a global level.

ZIEHL-ABEGG 
ZAdyn4





ZAsbc4 – noiseless travel comfort

The electronic brake control ZAsbc4 is a further component for ensuring a quiet and comfortable elevator system. The available versions enable installation on the frequency inverter ZAdyn4C in the shaft or in the control cabinet of the elevator controller.

ZAsbc4 – the electronic brake actuation

Minimising the background noise

In the elevator sector, contactor-less frequency inverters have become the state of the art. The noiseless operation of the drive is valued by operators and users of elevator systems. However, the elimination of the motor contactors means that a different noise becomes apparent: the switching noise of the brake contactors. Passengers and persons in rooms adjacent to the elevator perceive this as a form of noise pollution.

Electronic and safe

For the conventional actuation of the brakes of the elevator machine, the ZAsbc4 replaces the prescribed contactors with an safety circuit with electronic components according to EN 81-20.

The electronic brake control is used for brakes with and without overexcitement in synchronous and asynchronous motors alike. It is also possible to operate an additional safety brake on elevator machine with a gearbox. The ZAsbc4 is configured on site according to the brake type that is present.

ZAsbc4C with ZAdyn4C in elevator shaft



- Operating site: Elevator shaft or machine room with ZAdyn4C
- Suitable for retrofitting



With the option of retrofitting, both in the control cabinet and on the ZAdyn4C in the elevator shaft, the noise emissions of the brake contactors can be eliminated in a quick and cost-effective manner.

The benefits for you:

This ensures that all the negative characteristics of conventional brake actuation are consigned to the past.

- No disturbing switching noises of the contactors
- No EMC faults caused by the switching of the contactors
- No elevator system faults caused by contactors not functioning correctly
- Various installation options

ZAsbc4B with ZAdynpro in control cabinet



- Operating site: control cabinet with ZAdynpro
- Also in combination with frequency inverters from other manufacturers
- Suitable for retrofitting



Technical details

		ZAsbc4B 110	ZAsbc4B 230	ZAsbc4C 110	ZAsbc4C 230
Article no.		357290	357291	357292	357293
Input	Brake power supply [VAC]	230, 50/60 Hz			
	Safety chain voltage [VAC]	110, 50/60 Hz	230, 50/60 Hz	110, 50/60 Hz	230, 50/60 Hz
Output	Output current [A]	2 x 1.0			
	Output voltage* [VDC]	Permanent: 207 Overexcitement: 207/103			
Relay outputs STO	Switching voltage [VDC]	max. 30			
	Switching current [A]	2.0			
Housing	Installation location	Control cabinet		ZAdyn4C	
	Protection class	IP10		IP20	
	Dimensions HxWxD [mm]	310x60x164		308x61x164	

System components

Type	Article no.	Length (m)
L-BA-018-HX-SBC4-AE	00166059-018M	1.8
L-BA-03-HX-SBC4-AE	00166059-03M	3.0
L-BA-05-HX-SBC4-AE	00166059-05M	5.0
L-BA-010-HX-SBC4-AE	00166059-010M	10.0
L-BA-015-HX-SBC4-AE	00166059-015M	15.0
L-BA-020-HX-SBC4-AE	00166059-020M	20.0
L-BA-025-HX-SBC4-AE	00166059-025M	25.0

Brake control cables

- Connection of brake to ZAsbc4
- Prefabricated
- Halogen-free



Type	Article no.	Length (m)
LS-SBC4-03-HX-ST	357289-03M	3.0
LS-SBC4-05-HX-ST	357289-05M	5.0
LS-SBC4-10-HX-ST	357289-10M	10.0
LS-SBC4-25-HX-ST	357289-25M	25.0
LS-SBC4-50-HX-ST	357289-50M	50.0

ZAsbc4C cable set

Connection of elevator controller to ZAsbc4C

- With 5 features:
 - Brake power supply
 - Safety chain monitoring
 - Activation, emergency mode and brake test
 - Overvoltage protection test
 - Status monitoring
- Prefabricated
- Halogen-free



Standards and Directives

Elevator Directive 2014/33/EU

Safety component for elevators according to Annex III
Type-examination tested

Additional functions

For the purpose of actuating the safety function Safe Torque Off (STO) in frequency inverters from the ZAdyn series, there are integrated relays provided which are activated depending on the safety chain.

With regard to the actuation of other types, it is necessary to check the authorisation.

Quiet and compliant with standards

The electronic brake control ZAsbc4 and the contactor-less frequency inverter ZAdyn4 or ZAdynpro form the perfect package for quick installation and quiet, low-maintenance operation of the elevator machine including brakes. All components meet the requirements of EN 81-20.

The Royal League

