

Movement by Perfection







Top technology made by ZIEHL-ABEGG

The elevator 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 4,100 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 29 subsidiaries worldwide. With 111 sales centers, 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. 16 international production sites deliver consistent product quality on a global level.





ZAdynpro the compact frequency inverter

The space in the elevator shaft is getting less. Components are relocated to the control cabinet, but even this provides only little room.

The smart new ZAdynpro from ZIEHL-ABEGG is the compact solution, delivering maximum functionality in a small space.

Your advantages:

- Small control cabinet thanks to integrated EMC filter
- Flexible control cabinet design due to:
 - Different installation positions
 - External line reactor
- Installation of the control cabinet even in noisesensitive environments
- Easy stocking thanks to operation of synchronous and asynchronous motors
- Fast connection through pre-wiring of removable terminals



ZAdynpro 011-032



ZAdynpro 040-074

Functions

Certified and tested functions

- Operation without motor contactors using the function Safe Torque Off (STO) according to IEC 61800-5-2 (SIL 3)
- Travel direction change counter for elevator with plastic covered ropes or belts
- · Self-monitoring of the motor brake

Emergency operation

If the power supply should fail, the ZAdynpro can be operated via an uninterruptible power supply (UPS) or a battery.

Motor type

- Asynchronous
- Synchronous
- Selection of the motor type during commissioning

Standby

With its various standby functions, the ZAdynpro helps ensure that your elevator is sustainable.

Interfaces

Encoder

• Incremental: TTL, Sine

· Absolute: EnDat, SSI, SinCos, BiSS-C

Control

- CANopen-Lift (CiA-417)
- Digital inputs (24 VDC) and outputs (relays)



Space-saving and compact integration into the control cabinet

Technical details

	ZAdynpro	011	013	017	023	032	040	050	062	074
	Article no.	352250	352251	352252	352253	352254	352255	352256	352257	352258
	Nominal voltage [VAC]	3~ 180440								
Input	Mains frequency [Hz]	50/60								
	UPS mode [VAC]	230								
	Battery mode [VDC]	96216								
	Standby mode [W]	≤ 3.0			≤ 6.0 ≤ 8.0		≤ 10.0	≤ 14.0		
	Motor power [kW]	4.6	5.5	7.5	11.0	14.0	19.0	24.0	30.0	37.0
	Nominal current [A]	11.0	13.0	17.0	23.0	32.0	40.0	50.0	62.0	74.0
Output	Max. operating current (10 s)	20.0	24.0	31.0	42.0	58.0	72.0	90.0	112.0	134.0
	Duty cycle [%]	40								
	Switching frequency [kHz]	4.016.0								
Housing	Protection class	IP20								
	Dimensions H x W x D [mm]	308 x 151 x 195			370 x 152 x 195			517 x 311 x 190		

Standards and directives

Machinery Directive 2006/42/EC

- EN 61800-5-1
- IEC 61800-5-2
- EN 62061
- EN ISO 13849-1
- EN ISO 13849-2

Lift Directive 2014/33/EU

- Reliable travel direction change counter for elevator with plastic covered ropes or belts
- Self-monitoring of the motor brake as an element of the ascending car overspeed protection means and as part of the protection against unintended car movement

EMC Directive 2014/30/EU

- EN 12015
- EN 12016
- EN 61800-3
- · When using a type ND line reactor

Low-Voltage Directive 2014/35/EU

Compliance with the Machinery Directive means that the protective goals of the Low-Voltage Directive 2014/35/EU are also met

System components

Operating terminal ZApad

- 4-line display with plain text display
- Connection by network cable
- USB interface for ZAmon software

ZApadpro

- For ZAdynpro 011-032
- Clip mounting to plastic housings

Article no. 357300

ZApad

- For ZAdynpro 040-074
- Magnetic mounting to metal housings

Article no. 357256



Adapter ZAmon STICK

Bluetooth® wireless technology for operation by mobile device in combination with the app ZAmon

- Bluetooth Low Energy
- Connection by network cable
- Optimal wireless connection due to different possibilities for installation in the machine room or elevator shaft

Article no. 357316





The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by ZIEHL-ABEGG SE is under license. Other trademarks and trade names are those of their respective owners.



Туре	Article no.	Nominal current	Frequency inverter
		[A]	
ND011	357180	11.0	ZAdynpro 011
ND013	357181	13.0	ZAdynpro 013
ND017	357182	17.0	ZAdynpro 017
ND023	357183	23.0	ZAdynpro 023
ND032	357184	32.0	ZAdynpro 032
ND040	357185	40.0	ZAdynpro 040
ND050	357186	50.0	ZAdynpro 050
ND062	357187	62.0	ZAdynpro 062
ND074	357188	74.0	ZAdynpro 074

Line reactor ND

- Ensures compliance with the limit values required by EN 12015 and EN 12016
- Reduction of the harmonics
- Damping of commutation notches and mains feedback



Туре	Article no.	Frequency inverter
BR11-A	357171	ZAdynpro 011
BR17-3	357216	ZAdynpro 011 ZAdynpro 013 ZAdynpro 017
BR25-3	357217	ZAdynpro 023 ZAdynpro 032
BR50-3	357218	ZAdynpro 032 ZAdynpro 040 ZAdynpro 050 ZAdynpro 062 ZAdynpro 074
BR100-3A	357214	ZAdynpro 074

Brake resistor BR

- Prepared for wall installation
- Compact design
- Integrated temperature monitoring (only BR...-3)





Туре	Article no.	Line length [m]	Frequency inverter
L-BR-03-HX- 2,5-ZAp	00166112-03M	3.0	ZAdynpro 011 ZAdynpro 013 ZAdynpro 017 ZAdynpro 023
L-BR-03-HX- 6ZAp	00166113-03M	3.0	ZAdynpro 032
L-BR-03-HX- 6-ZAp	00166155-03M	3.0	ZAdynpro 040 ZAdynpro 050 ZAdynpro 062 ZAdynpro 074

Brake resistor lines

- For brake resistor BR...-3
- Prefabricated
- Integrated wires for temperature monitoring
- Halogen-free



Туре	Article no.
ZAsbc4B 110	357290
ZAsbc4B 230	357291

Electronic brake control ZAsbc4B

- For brakes with and without overexcitation
- Operating voltage brake: 207 VDC / 103 VDC
- Evaluation of safety circuit (110 VAC and 230 VAC) and enabling contactor-less operation
- Suitable for retrofitting



Adapted to your needs

ZAdynpro is THE solution for installing a frequency inverter in your control cabinet. Its small size enables optimum adjustments to be made to the control cabinet according to the local conditions. The interfaces and functions that are integrated ex works ensure perfect travelling behaviour of the elevator machine.

The Royal League 🖍

