

Movement by Perfection

ZIEHL-ABEGG   
ZA dyn4



The Royal League in ventilation, control and drive technology

## Drive systems for elevators

ZAdyn frequency inverters & elevator machines with gearbox

# Welcome to the world of ZIEHL-ABEGG

## Top technology made by ZIEHL-ABEGG

The elevator in the world-famous basilica 'La Sagrada Familia' 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 production network

ZIEHL-ABEGG undertakes production on a global level at 18 locations. As an OEM supplier in all areas, this enables the company from southern Germany to ensure customer proximity. The hallmarks of ZIEHL-ABEGG are very substantial vertical integration, customised solutions and a high capacity for innovation.

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## **ZAdyn frequency inverters & elevator machines with gearbox**

The exclusive combination of frequency inverters from the ZAdyn series, which are developed especially for elevator technology, and elevator machines with gear box helps deliver maximum flexibility and variability. This enables innovative solutions when it comes to the modernisation of existing elevator systems and with regard to new systems:

- Tailored system
- Smooth drive units
- Suitable system components
- Drive system selection with the ZAlift design program
- Delivery from a single source

In addition to excellent, easy to use products, personal customer support and fast, on-time delivery, customer-oriented service is also one of our strengths.

# ZAdyn4C and ZAdynpro

## ZAdyn series

Units in the ZAdyn series are frequency inverters developed exclusively for elevator technology. The varied housing designs and universally compact construction make them ideal for control cabinet installation and for wall mounting.



ZAdyn4C frequency inverter

## Contactor-less operation

- STO (Safe Torque Off) according to IEC 61800-5-2 (SIL 3) or EN ISO 13849 Category 3, Performance Level e with protection class IP20
- Safety requirements according to EN 81-20 are met



ZAdynpro frequency inverter

## The benefits for you:

- Space-saving installation due to compact design
- Open-Loop-Operation
- Standby function
- 4-line display with plain text display
- Minimum noise development and low energy consumption due to controlled ventilation
- Automatic travel curve assignment
- Switching frequency: 4...16 kHz (automatic adaptation)
- Protection class: IP20



## Options

- ZApad external control terminal; 4-line display with plain text display
- Electronic brake control ZAsbc4
- ZAmon software

## Evacuation mode

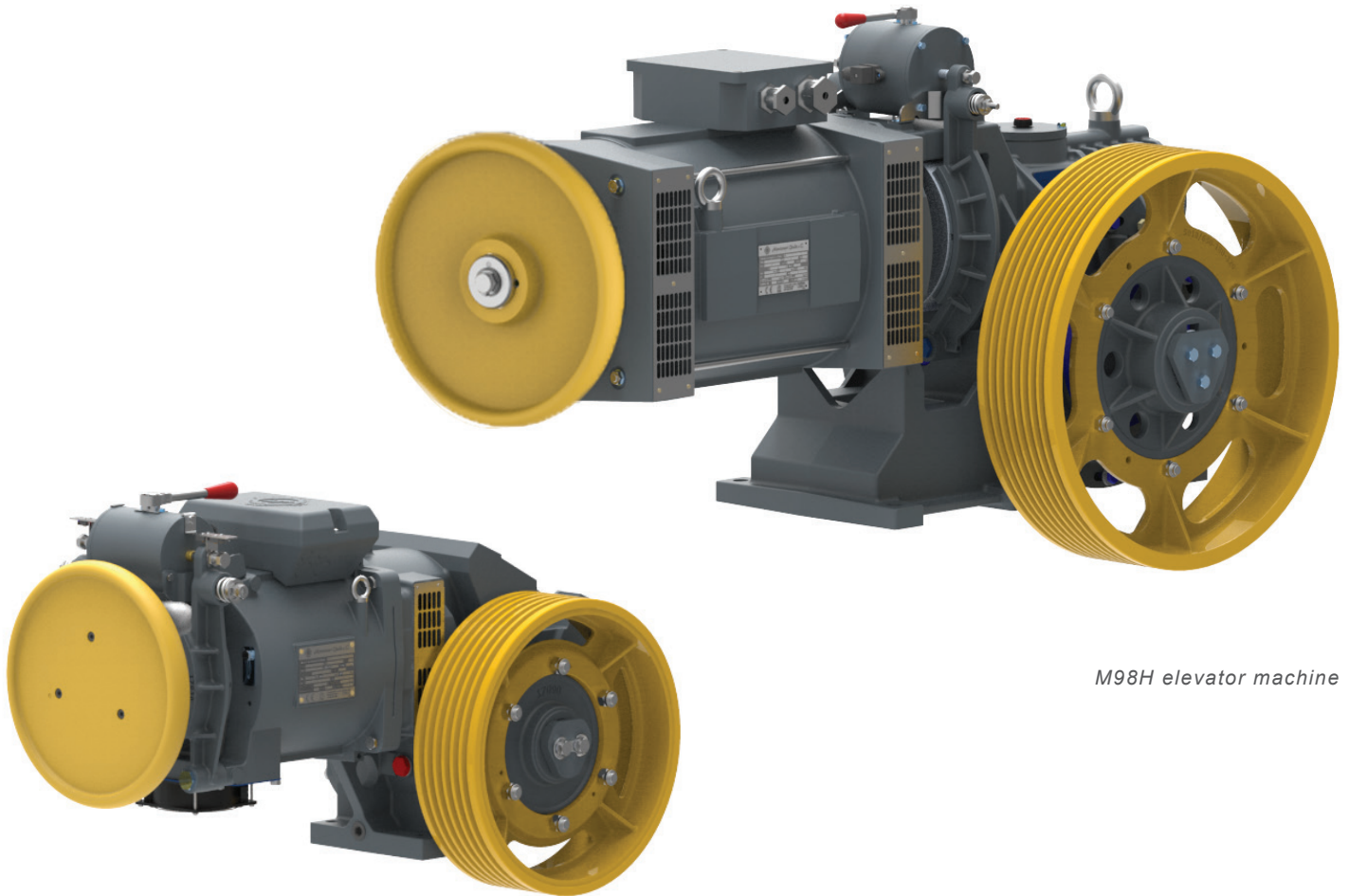
### Supply during energy failure through:

- Evacuation unit EVAC 3C
- Uninterruptible power supply (UPS)

Type	Article no.	Nominal voltage [VAC]	Motor power [kW]	Nominal current [A]
ZAdyn4CA 011	352194	3~ 180...400, 50/60 Hz	4.6	11.0
ZAdynpro 011	352250		5.5	13.0
ZAdyn4CA 013	352195		7.5	17.0
ZAdynpro 013	332251		11.0	23.0
ZAdyn4CA 017	352196		14.0	32.0
ZAdynpro 017	332252		19.0	40.0
ZAdyn4CA 023	352197		24.0	50.0
ZAdynpro 023	352253		30.0	62.0
ZAdyn4CA 032	352198		37.0	74.0
ZAdynpro 032	352254			
ZAdyn4CA 040	352206			
ZAdyn4CA 050	352207			
ZAdyn4CA 062	352208			
ZAdyn4CA 074	352209			

# Elevator machines with gearbox

Optimum solution for modernisation and new systems, especially when traction sheaves with large diameters are used.



*M98H elevator machine*

*PENTA elevator machine*

## The benefits for you:

- Asynchronous motor
- Worm gear
- Safety brake
- Double-shoe brake with mechanical hand release
- Traction sheave diameter up to 800 mm
- Travel speeds of up to 2.5 m/s
- Horizontal and vertical design
- Traction sheave on left/right
- Various gear ratios
- Rope guard according to EN 81-20
- Synthetic gear oil

## Product portfolio

With the comprehensive product portfolio including elevator machines with gear box, the suitable ZAdyn frequency inverter and various system components, ZIEHL-ABEGG delivers maximum flexibility and variability – from a single source.

Suspension	Max. payload [kg]	Traction sheave [mm]	Axle load [kg]	Machine with gearbox
1:1	400	360...600	2200	M65 
	480	360...700	2000 / 2700	M73 M73H 
	630	360...700	2000/2700	M75 M75H 
	630	360...600	3000	PENTA 
	800	450...700	3200	M83 
	1250	450...800	5000	M93 
	2200	450...800	7000	M98H 

# The Royal League

