



Productdocumentatie

Type
ZG045-ZIL.0F.V5P1

Artikelnummer
198530

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1. Verklaringen

De Productspecificaties in dit document zijn definitief, tenzij anders vermeld in een afzonderlijke bepaling in het document "ZIEHL-ABEGG-afwijkingenlijst" met betrekking tot door de klant verstrekte informatie (zie afzonderlijk hoofdstuk: Bijlage).

Andere reglementeringen tussen partijen, ongeacht tijdstip, vorm of inhoud, maken geen deel uit van het voorwerp van het contract en de overeenkomst betreffende de karakteristieken/kenmerken (Productspecificaties) tussen de partijen.

Naleving van de volgende specificaties is verplicht om de functionaliteit en veiligheid van het product te waarborgen. Als de volgende specificaties, met name maar niet beperkt tot bedrijfsomstandigheden, transport, opslag, montage, opstarten, onderhoud en reparatie, niet in acht worden genomen, kan het zijn dat het product niet veilig werkt en gevaar kan opleveren voor lijf en leden van gebruikers en derden.

Afwijkingen van de volgende eisen kunnen daarom zowel leiden tot het verlies van de wettelijke materiële aansprakelijkheid voor gebreken als tot de aansprakelijkheid van de koper voor het product dat onveilig is geworden als gevolg van de afwijking van de specificaties.

2. Productspecificatie - Technische gegevens

Article number	198530
Type key	ZG045-ZIL.0F.V5P1
Designation	ZAplus axial fan with sickle blades / wavy leading edge
Fan design	with round wall ring plate.
Rated values	1~200-277V 50/60Hz P(1)360W 1.85-1.30A 1370 min ⁻¹ °C
Electrical connection	Integrated controller
Conformity	ErP 2015, ErP2026-Status: Compliant (complete fan)
ErP Data	Measurement category ErP: A Air flow q(v) on Eta opt: 3763 m3/h Pressure increase p(fs) on Eta opt: 158 Pa Input power P(1) on Eta opt: 355 W Efficiency H(statA): 53.3 % Efficiency grade: N(actual) = 62.5 / N(target) = 40* *ErP 2015
Thermal class	THCL155
Efficiency class	IE5
IO-function	BASIC-MODBUS
Type PFC integrated	1~PFC
Painting motor	Fan unpainted
Material rotor	Steel
Painting rotor	Rotor 2 coat paint
Colour rotor	RAL 5002 (ultramarine blue)
Material blades	High Performance Composite Material
Painting impeller	Blades unpainted
Colour impeller	black
Painting inlet nozzle	Bell mouth unpainted
Colour inlet nozzle	white
Coating sheet-metal	Safety guard powder-coated with safety guard
Connection diagram	wiring diagram: 1360-432
Fitting position	H/Vu/Vo
Motor protection	integrated active temperature management
Type of protection	IP54
Impregnation	Moisture and hot climate protection
Quality of bearings	ball bearing with long-time lubrication
Labelling UL/CSA	E347018 ZB-155, MK072-0266
Rating plate	2x fixed
Condens. drain holes	Condensation drain hole rotor open
Guard grille type	ring grill
Guard grill suc.side	Guard grill mounted on suction side
Guard grill pre.side	Guard grill for pressure side supplied loosely
Client's loose parts	Connecting elements in the accessories bag supplied loosely.
Number of blades	5

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Blade setting	P
Special loose parts	Connecting elements in the accessories bag supplied loosely.
VDE number	E912
Operating manual	L-BAL-F087
Weight	9.90 kg
Min. operating temperature	-30°C***
Disclaimer CT20/DOE	Selected product is not governed by U.S. DOE and CT20 industrial fan and blower regulations.

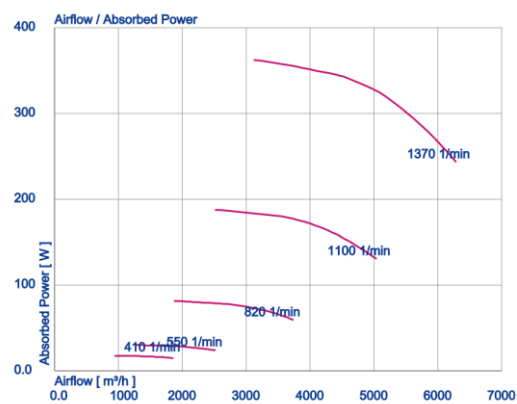
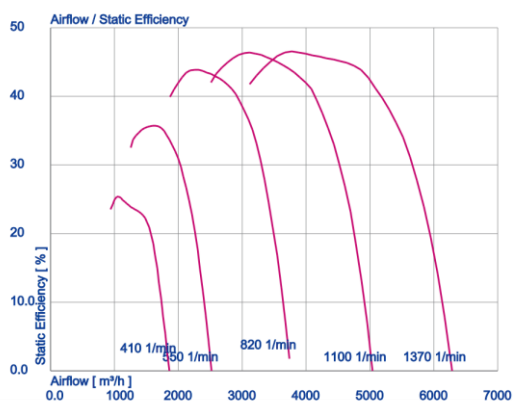
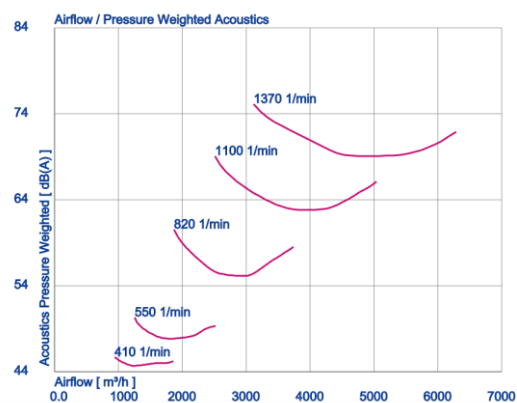
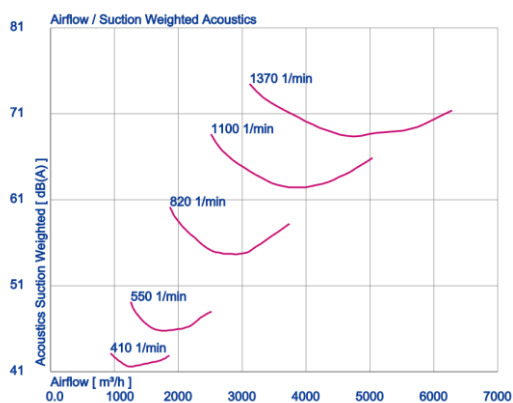
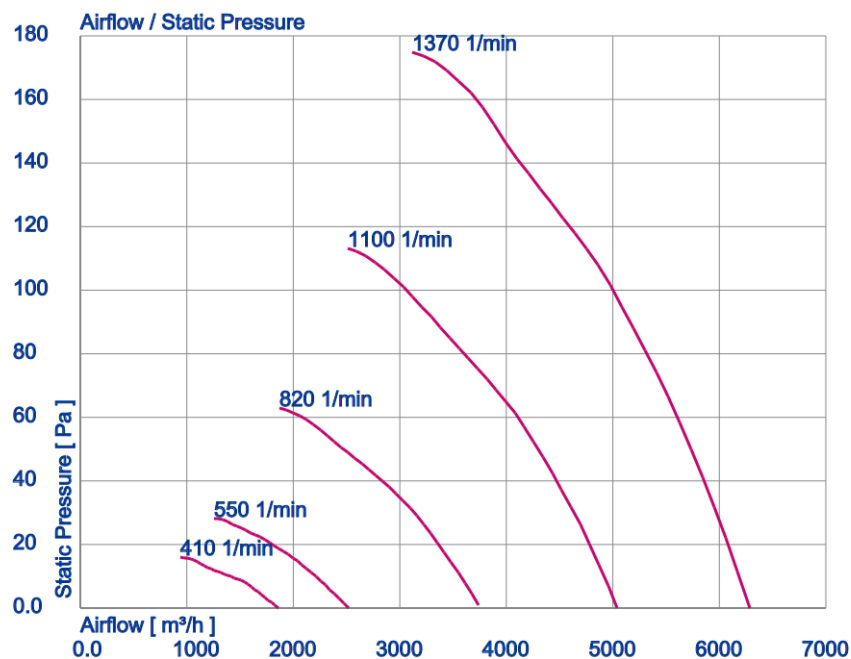
*** Operation mode: Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02. Occasional starting between -30 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

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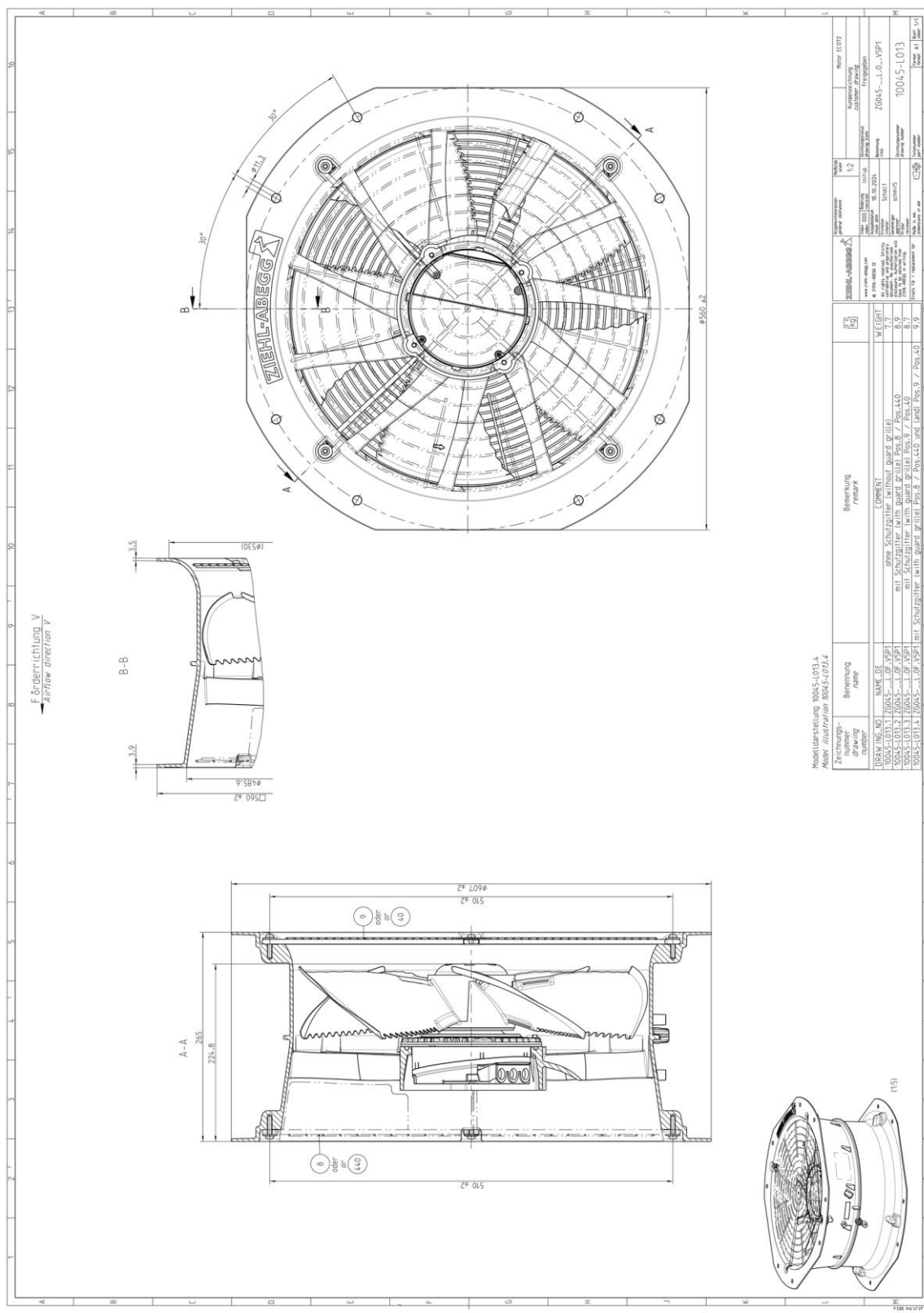
3. Karakteristiekcurve:

1~ 200-277V 50Hz



198530

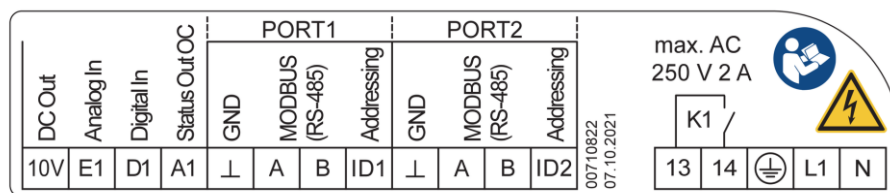
4. Tekening



Afmetingen in mm

De getoonde afbeeldingen geven geen garantie van volledigheid en zijn uitsluitend bedoeld voor oriëntatiedoeleinden.

5. Aansluitschema



6. EU-conformiteitsverklaring

EU declaration of conformity

- Translation -
(english)

ZA75-GB 2024/43 Index 020

Manufacturer: ZIEHL-ABEGG SE
Heinz-Ziehl-Straße
74653 Künzelsau
Germany

The manufacturer is solely responsible for issuance of the declaration of conformity.

The products:

- External rotor motor MK.., MW..
- Axial fan DN.., FA.., FB.., FC.., FE.., FF.., FG.., FH.., FL.., FN.., FP.., FS.., FT.., FV.., SG.., VN.., VR.., ZC.., ZF.., ZG.., ZN..
- Centrifugal fan ER.., GR.., HR.., RA.., RD.., RE.., RF.., RG.., RH.., RK.., RM.., RR.., RZ.., WR..

Motor type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter
- Electronically commutated internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC controller

The above mentioned products of this declaration fulfil all relevant provisions of the following Directives of the Union:

- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- ErP Directive 2009/125/EC, in conjunction with Regulation (EU) no. 327/2011

The following harmonized standards have been applied:

- EN 60034-1:2010 + AC:2010
- EN 60204-1:2018
- EN 60529:1991 + A1:2000 + A2:2013 + AC:1993 + AC:2016 + AC:2019
- EN 61000-6-2:2005 + AC:2005
- EN 61000-6-3:2007 + A1:2011 + AC:2012

The following additional standards were applied:

- EN IEC 61000-6-2:2019
- EN IEC 61000-6-3:2021

Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK.., MW..

All ErP-relevant information comprises measurements which are determined using a standardised measurement set-up. More details can be obtained from the manufacturer.

Compliance with the EMC Directive 2014/30/EU refers only to those products when they are connected by mounting / operating instructions. If these products are integrated into a system or supplemented with other components (e.g. sensing controls) and operated, the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30/EU.

Künzelsau, 22.10.2024
(Location, date of issue)

ZIEHL-ABEGG SE
Moritz Krämer
Director Product Development
Ventilation Technology
(name, function)



(signature)

ZIEHL-ABEGG SE
Jürgen Albig
Global President
Product Unit Ventilation
(name, function)



(signature)

ZIEHL-ABEGG 

EC Declaration of Incorporation

- Translation -
(english)

ZA87-GB 2024/43 Index 014

as defined by the EC Machinery Directive 2006/42/EC, Annex II B

The design of the partly completed machine:

- Axial fan DN., FA., FB., FC., FE., FF., FG., FH., FL., FN., FP., FS., FT., FV., SG., VN., VR., ZC., ZF., ZG., ZN..
- Centrifugal fan ER., GR., HR., RA., RD., RE., RF., RG., RH., RK., RM., RR., RZ., WR..

Motor type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter
- Electronically commutated internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC controller

Complies with the requirements in Appendix I, Articles 1.1.2, 1.1.5, 1.4.1, 1.5.1 in EC Machinery Directive 2006/42/EC.

The manufacturer is **ZIEHL-ABEGG SE**
Heinz-Ziehl-Straße
D-74653 Künzelsau

The following harmonized standards have been applied:

EN 60204-1:2018	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
EN ISO 12100:2010	Safety of machinery – General principles for design – Risk assessment and risk reduction
EN ISO 13857:2019	Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs
Note:	Compliance with EN ISO 13857:2019 relates only to the installed contact protection if it is part of the scope of delivery.

The special technical documents in accordance with Appendix VII B have been created and are available in full.

The following persons are authorized to compile the technical documents, address see above.

Upon reasonable request, the special documents shall be transmitted to the public authority. The transfer can be made electronically, on data carriers or on paper. All property rights remain with the aforementioned manufacturer.

Start-up of this incomplete machine is prohibited until it is ensured that the machine in which it has been installed complies with the provisions of the EC Machinery Directive.

Künzelsau, 22.10.2024
(Location, date of issue)

ZIEHL-ABEGG SE
Moritz Krämer
Director Product Development
Ventilation Technology
(name, function)



(signature)

ZIEHL-ABEGG SE
Jürgen Albig
Global President
Product Unit Ventilation
(name, function)



(signature)



7. UKCA Declaration of Incorporation

UK Declaration of Conformity

- Original -
(english)

ZA75_UK-GB
2024/43 Index 005

Manufacturer: ZIEHL-ABEGG SE
Heinz-Ziehl-Straße
74653 Künzelsau
Germany

The manufacturer is solely responsible for issuance of the declaration of conformity.

The products:

- External rotor motor MK..., MW...
- Axial fan DN..., FA..., FB..., FC..., FE..., FF..., FG..., FH..., FL..., FN..., FP..., FS..., FT..., FV..., SG..., VN..., VR..., ZC..., ZF..., ZG..., ZN...
- Centrifugal fan ER..., GR..., HR..., RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., WR...

The motor type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter
- Electronically commutated internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC controller

These products comply with the following UK directives:

- Electromagnetic Compatibility Regulations 2016 No. 1091
- Electrical Equipment (Safety) Regulations 2016 No. 1101
- The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019 No. 539

The following designated standards have been used:

- EN 60034-1:2010 + AC:2010
- EN 60204-1:2018
- EN 60529:1991 + A1:2000 + A2:2013 + AC:1993 + AC:2016 + AC:2019
- EN 61000-6-2:2005 + AC:2005
- EN 61000-6-3:2007 + A1:2011 + AC:2012

The following additional standards were applied:

- EN IEC 61000-6-2:2019
- EN IEC 61000-6-3:2021

Compliance with the Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019 does not refer to external rotor motors MK..., MW...

All ErP-relevant information comprises measurements which are determined using a standardised measurement set-up. More details can be obtained from the manufacturer.

Compliance with the Electromagnetic Compatibility Regulations 2016 refers only to those products when they are connected by mounting / operating instructions. If these products are integrated into a system or supplemented with other components (e.g. sensing controls) and operated, the manufacturer or operator is responsible of the overall system for compliance with the Electromagnetic Compatibility Regulations 2016.

Künzelsau, 22.10.2024
(location, date of issue)

ZIEHL-ABEGG SE
Moritz Krämer
Director Product Development
Ventilation Technology
(name, function)



(signature)

ZIEHL-ABEGG SE
Jürgen Albig
Global President
Product Unit Ventilation
(name, function)



(signature)

ZIEHL-ABEGG 

UKCA Declaration of Incorporation

as defined by the Supply of Machinery (Safety) Regulations 2008
No. 1597, PART 2 / Annex II B

- Original -
(english)
ZA87_UK-GB
2022/17 Index 002

The design of the incomplete machine:

- Axial fan DN..., FA..., FB..., FC..., FE..., FF..., FG..., FH..., FL..., FN..., FP..., FS..., FT..., FV..., VN..., VR..., ZC..., ZF..., ZG..., ZN...
- Centrifugal fan ER..., GR..., HR..., RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., WR...
- Cross-flow fan QD..., QG..., QK..., QR..., QT...

The motor type:

- Asynchronous internal or external rotor motor (also with integrated frequency inverter)
- Electronically commutated internal or external rotor motor (also with integrated EC controller)

complies with the requirements in Annex I, Articles 1.1.2, 1.1.5, 1.4.1, 1.5.1 in Supply of Machinery (Safety) Regulations 2008 No. 1597.

The manufacturer is **ZIEHL-ABEGG SE**
Heinz-Ziehl-Straße
D-74653 Künzelsau

The following harmonised standards have been used:

EN 60204-1:2018	Safety of machinery; electrical equipment of machines; Part 1: General requirements
EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
EN ISO 13857:2019	Safety of machinery; safety distances to prevent danger zones being reached by the upper limbs
Note:	The maintenance of the EN ISO 13857:2019 relates only to the installed accidental contact protection, provided that it is part of the scope of delivery.

The specific technical documentation in accordance with Annex VII B has been written and is available in its entirety.

The following persons are authorized to compile the technical documents, address see above.

The specific documentation will be transmitted to the official authorities on justified request. The transmission can be electronic, on data carriers or on paper. All industrial property rights remain with the above-mentioned manufacturer.

It is prohibited to commission this incomplete machine until it has been secured that the machine into which it was incorporated complies with the stipulations of the Machinery (Safety) Regulations.

Künzelsau, 27.04.2022
(location, date of issue)

ZIEHL-ABEGG SE
Tobias Gauss
Deputy Head of Technics Ventilation Technology
(name, function)



(signature)

ZIEHL-ABEGG SE
Moritz Krämer
Head of Electrical Systems
(name, function)



(signature)

ZIEHL-ABEGG 



Intelligente regeltechniek voor elke toepassing