

SERVO-DRIVE

Instruction leaflet





blum SERVO-DRIVE







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About these instructions

Thank you for your purchase. SERVO-DRIVE, the electrical motion support system by Julius Blum GmbH, is a high-quality product that simplifies everyday kitchen tasks.

To safely enjoy the comfort of SERVO-DRIVE, please note the following:

- > Carefully read the instruction leaflet before use.
- > Please retain the instruction leaflet for the service life of SERVO-DRIVE.
- > Please pass on this instruction leaflet to each subsequent owner or user of SERVO-DRIVE.
- ➤ Instructions are also available on our website. Please search on www.blum.com for "SERVO-DRIVE instruction leaflet" and download it as a PDF file.

Validity and target group

This instruction leaflet is intended for all users of SERVO-DRIVE. Assembly, adjustment, initial operation, maintenance and removal may only be carried out by qualified personnel according to the separate installation instructions.



Warning signs and danger symbols

WARNING indicates a danger that could lead to death or serious injury if not heeded.

NOTE



To identify an appliance intended only for indoor use.



To identify terminals that must not be connected to the mains voltage.

Intended use

SERVO-DRIVE supports the opening and closing of lift systems, the opening of drawers and/or refrigerators and freezers or dishwashers, and may only be used under the following conditions:

- In dry, enclosed rooms.
- In combination with AVENTOS lift systems and/or pull-out systems from Julius Blum GmbH within permitted technical specifications.
- In combination with a SERVO-DRIVE transformer.
- The furniture must be firmly secured to the wall so that it cannot topple over.

Technical data specifications can be found in the Blum sales documentation. For more information, please see your distributor. Julius Blum GmbH is not liable for any other use.



Safety

Principle

SERVO-DRIVE complies with current safety standards. Nevertheless, there will still be certain residual risks if the information contained in this instruction leaflet is not observed. Please be aware that Julius Blum GmbH is not responsible for incidental or consequential damages that may arise due to non-compliance with

Safety information

this instruction leaflet.

- The mains plug and the SERVO-DRIVE transformer must be easily accessible.
- Neither the SERVO-DRIVE transformer nor any cabling should come into contact with moving parts.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.
- Reaching into the area around the lift system lever during the opening and closing motion can cause injury.
- The overall length of the cable for SERVO-DRIVE plug-in transformers Z10NA300 and Z10NA40x* must not exceed two metres.
- SERVO-DRIVE transformer Z10NE030 must be connected to an outlet with an earth connection.
- SERVO-DRIVE transformer Z10NE030 incorporates an earth connection for functional purposes only.



Structural changes and spare parts

Structural changes and spare parts not approved by the manufacturer have an adverse effect on the safety and functionality of SERVO-DRIVE and therefore are not allowed.

- Only use original spare parts from Julius Blum GmbH
- SERVO-DRIVE components are the only devices that should be connected to the SERVO-DRIVE transformer.
- Only qualified specialists may install or replace SERVO-DRIVE components, modify the position of the SERVO-DRIVE transformer or modify the cabling.
- Please make sure that the Blum distance bumper is attached to the front.

NOTE

To ensure that lift systems, drawers, refrigerators or freezers and dishwashers cannot be activated unintentionally, we recommend connecting the SERVO-DRIVE transformer to a switched outlet. For more information, please consult an electronics retailer.

Children

⚠ WARNING

Opening and closing lift systems may pose a risk of injury to children.

Persons, especially children, who are sitting or standing on work surfaces may be pushed from work surfaces or injured when opening and closing a lift system.

May pose a choking hazard to children when playing with the SERVO-DRIVE switch.

Children could choke on the SERVO-DRIVE switch battery.

- Make sure that children do not open the SERVO-DRIVE switch as they could choke on parts or the battery from the SERVO-DRIVE switch if they swallow them.
- > Risk of explosion if the battery is replaced by an incorrect type
- > Do not ingest battery, Chemical Burn Hazard
- ➤ This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- > Keep new and used batteries away from children.
- ➤ If the battery compartment does not close securely, stop using the product and keep it away from children.
- ➤ If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Opening drawers may pose a risk of injury to children!

- Children should be properly supervised when in the room so that they do not play with the lift system.
- ➤ To ensure that SERVO-DRIVE is not triggered unintentionally, the switched outlet should be turned off.

Cabinet care and cleaning

⚠ WARNING

Danger of death from electric shock!

There is a danger of electric shock if fluids penetrate the SERVO-DRIVE transformer.

- ➤ Before cleaning the front, turn off the switched outlet to which the SERVO-DRIVE transformer is connected.
- ➤ Before cleaning the SERVO-DRIVE components, unplug the SERVO-DRIVE transformer.
- Make sure that no water or aggressive cleaning materials come into contact with the drive unit, the SERVO-DRIVE transformer or the SERVO-DRIVE switch while cleaning the cabinet – use a moist cloth.
- ➤ Never open a SERVO-DRIVE transformer, drive unit or SERVO-DRIVE switch.
- > Any cabling damage should be immediately corrected by a qualified specialist.
- Do not cover the SERVO-DRIVE transformer with cloths or other items – danger of overheating.
- ➤ Examine the appliance frequently for signs of wear or damage. If there are such signs or if the appliance has been misused or does not work, contact the supplier for further information

△ WARNING

Danger of injury if the lever springs upward!

There is a danger of injury from the lever springing upwards during improper removal of the front including fittings.



- > Never remove the front for cleaning.
- Front removal may only be carried out by qualified personnel according to the separate installation instructions.









21xA001 | x ε {F, L, S, K}, Z10C5007

All "21xA001" models are drives of the same type. These models differ in mechanical setup at the interface to the target fitting. The actuator of the "F"-models is set to fold-lift mounting position, the "L" to lift and the "S" to swing-up lift applications. The "Z10C5007" is the optionally available radio communication module for the drive "Z10C5000". All models contain the radio module "21.A00L33".

European Union

United Kingdom

United States of America,

Australia, New Zealand

















Contains IC: 8352A-21A00L33 / CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesiredoperation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Contains FCC ID: W95-21A00L33

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

Eurasian Economic Union

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment



UA 1.001.004380-13



Israel 51-59366

China



Singapore

Complies with

IMDA Standards

DA105823





South Korea



MISP-CRM-WOI-21FA001

이 기기는 가정용(B급)전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며,모 든 지역에서 사용할 수 있습니다.

This equipment is home use (Class B) electromagnetic wave suitability equipment and to be used mainly at home and it can be used in all areas.

Mexico

Taiwan



Contains NCC ID: CCAB10LP5610T3 「取得審驗證明之低功率射頻器材,非經核准,公司、 商號或使用者均不得擅自變更頻率、

加大功率或變更原設計之特性及功能.

低功率射頻器材之使用不得影響飛航安全及干擾合法通信.

經發現有干擾現象時, 應立即停用, 並改善至無干擾時方得繼續使用. 前述合法通信, R35323 指依電信管理法規定作業之無線電通信. 低功率射頻器材須忍受合法通信或工業、 科學及醫療用電波輻射性電機設備之干擾」

South Africa ICA:SA TA-2010/271







La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia. incluvendo la que pueda causar su operación no deseada.









23KA001 with 23.A00L83

The drive unit "23KA001" contains the radio module "23.A00L83".

European Union

United Kinadom

France

United States of America.

Australia. New Zealand



















Contains IC: 8352A-23A00L83 / CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesiredoperation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Contains FCC ID: W95-23A00L83

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NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Eurasian Economic Union,







Ukraine





Serbia





China





Japan



South Korea



R-R-WOI-23KA001 R-R-WOI-25RA001 이 기기는 가정용(B급)전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며,모 든 지역에서 사용할 수 있습니다.

This equipment is home use (Class B) electromagnetic wave suitability equipment and to be used mainly at home and it can be used in all areas.





51-70179







R35323

RoHS

Taiwan

Contains NCC ID: CCAN19LP1040T4

23KA001: CCAN19LP1050T7 「取得審驗證明之低功率射頻器材,非經核准,公司、 商號或使用者均不得擅自變更頻率、 加大功率或變更原設計之特性及功能

低功率射頻器材之使用不得影響飛航安全及干擾合法通信。

經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用. 前述合法通信 指依電信管理法規定作業之無線電通信. 低功率射頻器材須忍受合法通信或工業、 科學及醫療用電波輻射性電機設備之干擾」

Hong Kong Singapore Complies with



South Africa







La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Brasi



01062-21-12947 Resolução 680/2017: "Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados"

IMDA Standards

DA105823









23P5020 with 23P502L00

European Union

United Kingdom

France

United States of America,





Australia,















IC: 8352A-21P5020 / CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesiredoperation of the device.

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FCC ID: W95-23P502L00

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Eurasian Economic Union,





Ukraine



UA.TR 2570.2-CET





Israel 51-70176 China

Japan





South Korea



R-C-WOI-23P5020 이 기기는 가정용(B급)전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며,모 든 지역에서 사용할 수 있습니다.

This equipment is home use (Class B) electromagnetic wave suitability equipment and to be used mainly at home and it can he used in all areas

Taiwan

RoHS



「取得審驗證明之低功率射頻器材,非經核准,公司、 商號或使用者均不得擅自變更頻率、

加大功率或變更原設計之特性及功能 低功率射頻器材之使用不得影響飛航安全及干擾合法通信.

經發現有干擾現象時, 應立即停用, 並改善至無干擾時方得繼續使用, 前述合法通信 R35323 指依電信管理法規定作業之無線電通信. 低功率射頻器材須忍受合法通信或工業、 科學及醫療用電波輻射性電機設備之干擾」

Singapore

Complies with IMDA Standards DA105823

Certified for use in Hong Kong 超驗證可在香港使用 Certificate No 語書號碼 HK0021900074 通訊事務管理局

Hong Kong

South Africa

Mexico







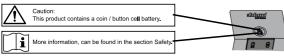
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Brasil



04726-20-12947 Resolução 680/2017: "Este equinamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados"

Position of instructional safeguards













23P5020 with 23P502L00.01

European Union

United Kingdom

France

United States of America,



Australia, New Zealand



IC: 8352A-23P502L0001 / CAN ICES-003 (B)/NMB-3(B)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesiredoperation of the device.

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FCC ID: W95-23P502L00-01

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Ukraine

- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Eurasian Economic Union. Relarus













Serbia





Singapore

Complies with

IMDA Standards

DA105823



Japan





South Korea



R-C-WOI-23P5020 이 기기는 가정용(B급)전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며,모 든 지역에서 사용할 수 있습니다.

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Taiwan



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加大功率或變更原設計之特性及功能 低功率射頻器材之使用不得影響飛航安全及干擾合法通信。

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South Africa

Mexico





RCPBL2322-0272

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia incluyendo la que pueda causar su operación no deseada.

Brasil



04726-20-12947 Resolução 680/2017: "Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados'



United Arab Emirates



TRA - United Arab Emirates

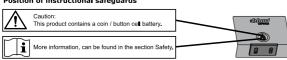
Dealer ID: 22-04-12870 TA RTTF: FR02742/21 Model: 23P5020 Type: Short range device



Kingdom of Saudi Arabia



Position of instructional safeguards











23.A001 with 23.A00L83

The drive unit "23 A001" contains the radio module "23 A00L83".

European Union

United Kingdom

France

United States of America, Canada

















IC: 8352A-23A001 / CAN ICES-3 (B)/NMB-3(B)

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China





Japan



South Korea



R-R-WOI-23,A001 이 기기는 가정용(B급)전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며,모 든 지역에서 사용할 수 있습니다.

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Taiwan



R35323

RoHS

CCAN22LP0620T9

「取得審驗證明之低功率射頻器材,非經核准,公司、

商號或使用者均不得擅自變更頻率. 加大功率或變更原設計之特性及功能。

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科學及醫療用電波輻射性電機設備之干擾」















Disposing of electrical and electronic appliances

Electrical and electronic appliances must not be disposed of with household waste at the end of their service life. Ask your local authority for information on how to proceed. Blum electrical and electronic appliances meet the requirements of the WEEE Directive

2012/19/EU. Electrical and electronic appliances are collected separately, which enables old appliances to be reused or recycled, and their materials to be reused. This is intended to prevent any hazardous materials that may be contained in the appliances from damaging the environment and health during disposal. In most cases, the entire appliance does not need to be disposed of according to the WEEE guidelines, but only the part that is equipped with electrical components. Please refer to the disassembly instructions for information on this. There are free collection points for returning electrical and electronic appliances in your area. You will find further information on this under the following link: www.blum.com/recycling

Disposing of batteries

Batteries must not be disposed of with household waste at the end of their service life. Ask your local authority for information on how to proceed. Batteries used at Blum meet the requirements of the Battery Directive 2006/66/EC. Batteries are collected separately, which enables the batteries or their materials to be recycled. This is intended to prevent any hazardous materials that may be contained in the appliances from damaging the environment and health during disposal. Please refer to the disassembly instructions for information on removing batteries. There are free collection points for returning batteries in your area. Please avoid shorting the contact surfaces when disposing of batteries. You will find further information on this under the following link: www.blum.com/recycling







限用物質含有情況標示聲明書 Declaration of the Presence Condition of Restricted Substances			限用物質及其化學符號 Restricted substances and its chemical symbols					
設備名稱. Equipment name:	型號(型式). Type designat (Type):	單元. ion Unit:	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)		多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
電源適配器	Z10NA40x, Z10NA300 "x" ∈ {B,E,H, K,N,R,S,U,Z}	電子元件 + 印刷電路板 Electronic components+PCB	0	0	0	0	0	0
		外殼 Housing	0	0	0	0	0	0
		輸出線材 Output cable	0	0	0	0	0	0
		交流電輸入端子 AC Input Pin	_	0	0	0	0	0
	‡ Z10NE040, Z10NE030	電子元件 + 印刷電路板 Electronic components+PCB	0	0	0	0	0	0
電源適配器		外殼 Housing	0	0	0	0	0	0
		輸出線材 Output cable	0	0	0	0	0	0
驅動單元	21xA00y "x" ∈ {F,L,S,K} "y" ∈ {0,1}	電子元件 + 印刷電路板 Electronic components+PCB	0	0	0	0	0	0
		馬達 Motor	0	0	0	0	0	0
		變速器 Gearbox	0	0	0	0	0	0
驅動單元	23xA00y "x" ∈ {.,K} "y" ∈ {0,1}	電子元件 + 印刷電路板 Electronic components+PCB	0	0	0	0	0	0
		馬達 Motor	0	0	0	0	0	0
		變速器 Gearbox	0	0	0	0	0	0
驅動單元	Z10A3000	電子元件 + 印刷電路板 Electronic components+PCB	0	0	0	0	0	0
		馬達 Motor	0	0	0	0	0	0
		變速器 Gearbox	0	0	0	0	0	0
驅動單元	Z10C5000	電子元件 + 印刷電路板 Electronic components+PCB	0	0	0	0	0	0
		馬達 Motor	0	0	0	0	0	0
		變速器 Gearbox	0	0	0	0	0	0
		電纜线材 Cable	0	0	0	0	0	0

"超出 $0.1~{
m wt}$ %"及"超出 $0.01~{
m wt}$ %"係指限用物質之百分比含量超出百分比含量基準值. "Exceeding $0.1~{
m wt}$. %" and "exceeding $0.01~{
m wt}$ %" indicate that the percentage content of the restricted substance is exceeding the reference percentage value of presence condition. 備考1. Note 1:

備考2. Note 2: "O" 係指該項限用物質之百分比含量未超出百分比含量基準值.
"O" indicates that the percentage content of the restricted substance does not exceed the

percentage of reference value of presence.

備考3. Note 3:

"—"係指該項限用物質為排除項目.
"—" indicates that the restricted substance corresponds to the exemption.