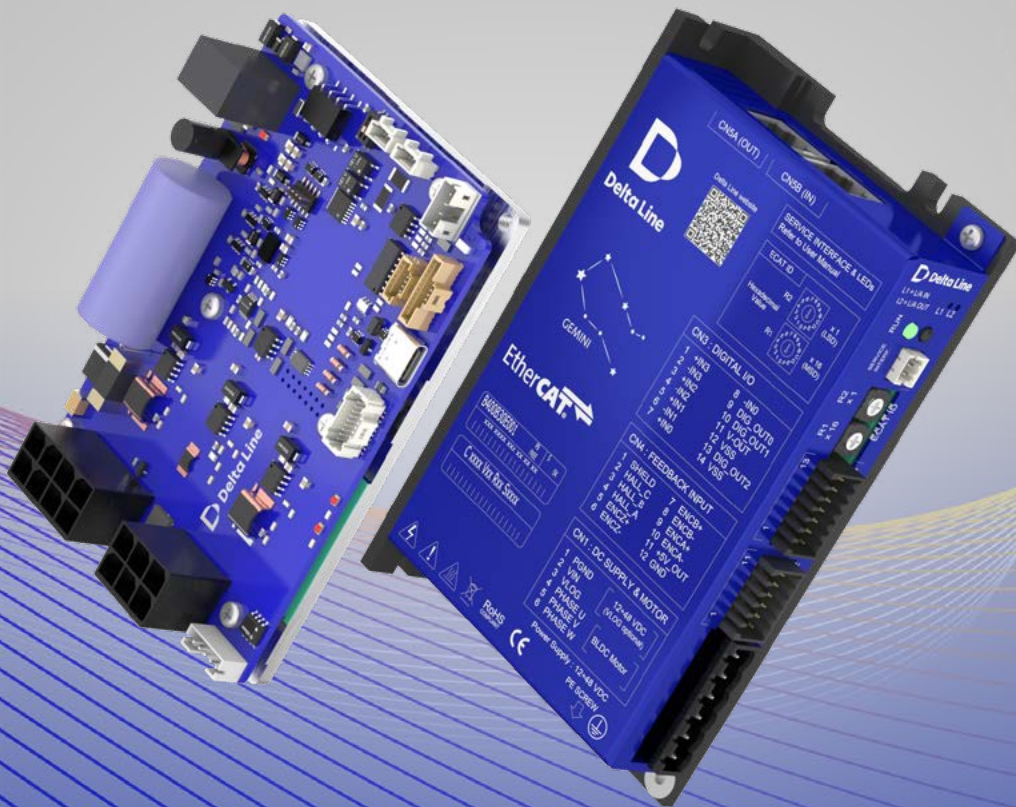




Delta Line

Moving together



Controllers – Drives

2025/26 – Product Catalogue v1.25



Brushless DC motor
Controllers



Brushless DC motor
Multi-Axis Controllers



Brushless AC motor
Controllers



Stepper motor
Controllers

Controllers – Drives

Brushless DC motor Drives	Current* (Arms)	9
Pegasus B072	up to 2	10
Pegasus B144	up to 3	11
Pegasus B360	up to 12	12
Gemini B400	up to 10	13
Leo B860 - NEW	up to 18	14
Leo B1400	up to 30	15
Leo B2000	up to 40	16
Leo B3800 - NEW	up to 80	17
Brushless DC motor Multi-Axis Drives	Current* (Arms)	19
Phoenix - B100	up to 3 (each motor)	20
Phoenix - B500	up to 12 (each motor)	21
Brushless AC motor Drives	Current* (Arms)	23
Scorpius A750	up to 3	24
Serpens A1300	up to 5,2	25
Stepper motor Drives	Current* (Arms)	27
Hercules SOD202	up to 2	28
Hercules SOD203	up to 3	29
Libra SBD205	up to 5,5	30
Aquarius SBD204	up to 4,2	31
Aquarius SBD207	up to 7,1	32
Sagittarius SBA207	up to 7,1	33
Andromeda SBA208	up to 8,5	34
Lyra SBAC203	up to 3	35
Draco SBAC205	up to 5,2	36
Dorado SBAC208	up to 8	37

Term	
Phase Current	Nominal Current that the drive can provide to one phase of the motor.
Peak Current	Maximum Current that the drive can provide to one phase of the motor, for a limited time (max 1s).
Power Supply	AC or DC Voltage range allowed to supply the drive.
Logic Power Supply	AC or DC Voltage range allowed to supply the logic part of the drive.
Output Power	Maximum motor power managed by the drive.
Chopper frequency	Switching frequency of the drive.
Protection degree	IP (International Protection) degree: it defines the protection against dust and water
Pollution degree	Degree of protection against pollution.
Category	Drive category following standard EN 61800-3 (electromagnetic compatibility): it defines the capability of a device to work satisfactorily in an electromagnetic environment without itself causing electromagnetic interference which is unacceptable for other devices present in this environment.
Temperatures	Temperature ranges allowed for correct operation (Working Temperature) or for proper storage (Storage Temperature).
Humidity	Humidity range allowed for correct operation.
Closed-loop	Closed loop motor control, also known as feedback control, incorporates a feedback mechanism to continuously monitor and adjust the motor's output. It uses sensors or encoders to measure the actual performance of the motor and compares it to the desired output.

Product families

BLDC motor Controllers
BLDC motor Multi-Axis Controllers
BLAC motor Controllers
Stepper motor Controllers

Delta Line Electronics can provide solutions to accomplish every customers' need: our drives portfolio can cover a wide range of different motors, from Stepper to Brushless motors.

Our portfolio is divided in Brushless DC Drives for 3-phase BLDC motors with phase current up to 80A rms, Brushless DC Multi-Axis Drives able to simultaneously control up to three BLDC 3-phase motors with phase current up to 12A rms (each motor), Brushless AC Drives for 3-phase BLAC motors with phase current up to 5,2A rms and Stepper Drives for 2-phase Stepper motors suitable for DC and AC power supply and with a phase current up to 8,5A rms. All our drives feature ARM Core M4 Technology and are capable to drive motors with smooth and silent movements.

Portfolio

All our programmable drives are offered with two software: DL Studio and DL Space. DL Studio is a configuration and test tool that lets the user set all the objects inside the drive and move the motor from the PC while seeing the motor response, in terms of current, speed and other information. DL Space contains all the features of DL Studio, but lets the user write custom applications for the drive using a simple and user-friendly programming language. The drive can be connected to the PC through a specific interface kit.

Software

One of the many peculiarities of our drives is the possibility to choose different control methods:

the drive receives one signal to control the direction and one signal to control the speed from a master (a PLC or any other master capable of this control methodologies). These methods are extremely simple but limited by the performance of the master.

Clock and Direction / Analogue Reference

the drive is controlled through a fieldbus network: the master exchanges data with the drives connected to the bus. This control method has a great robustness, and the initial high cost is often justified by a reduction of the cablings and of the cost of assembly/ maintenance procedures.

Fieldbus

the drive contains a custom application that can control the drive itself and the motor, even without the presence of a master. Programmable drives can be coupled with a PLC master to lighten the complexity of the PLC program, or they can be use standalone, even for complex usages.

Programmable

Technical introduction

In modern industrial systems, communication protocols are essential for connecting and controlling devices efficiently. Each protocol offers unique advantages, whether it's for real-time performance, scalability, or compatibility across different applications. All Delta Line Drives equipped with any fieldbus act like slave for the bus, so it is necessary to have at least one master that handles the data exchange. Here below an overview of the available communication protocols across our range.

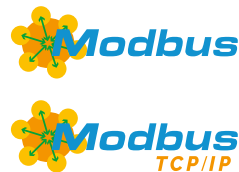
FIELDBUSES



It is a communication protocol widely used in automation, healthcare, agricultural and automotive systems. The CANopen protocol is based on the CANbus (Controller Area Network) physical layer, it can reach a transmission rate up to 1Mbps and allows the connection of up to 32 drives without losing performance.

CANopen

CANopen



It is a very common serial communication protocol published by Gould-Modicon (now Schneider Electric) in 1979. Modbus RTU is based on the RS485 physical layer, it can reach a transmission rate up to 115200 bps and allows the connection of up to 32 drives without losing performance. Modbus TCP instead leans on the Ethernet bus; it can reach a transmission rate up to 100Mbps and allows the connection of an infinite number of drives. Also, the Modbus TCP/IP potentially allows remote connections.

Modbus

EtherCAT

Ethernet for Control Automation Technology (EtherCAT) was developed by Beckhoff: it is based on the CANopen protocol and on the Ethernet bus, and it is optimized for industrial automation control. It has a transmission rate of 100Mbps and has no limits on the number of drives connected. It is the only fieldbus we offer that permits axes interpolation.

EtherCAT



Profinet is an industrial technical standard for data communication over industrial ethernet, designed for collecting data and controlling equipment in industrial systems, with a particular strength in delivering data under tight time constraints. It defines the communication with field connected peripheral devices. Profinet defines the entire data exchange between controllers and the devices.

Profinet



Powerlink is a real-time Ethernet protocol designed for high-precision applications. It provides microsecond-level cycle times and supports unlimited nodes, making it ideal for complex automation systems requiring strict timing accuracy.

Powerlink

EtherNet/IP

EtherNet/IP is a highly versatile industrial network protocol that leverages standard Ethernet for real-time communication and control. It enables integration across diverse systems and manufacturers, offering robust and reliable data exchange for a wide range of automation applications.

EtherNet/IP



Brushless DC motor

Controllers — Drives

Advantages at a glance
Position, Speed and Torque control
Analogue, fieldbus or programmable
Flexible configuration

Our Brushless DC Drives are specifically developed for 3-phases brushless motors with phase current up to 40A rms. All our drives feature ARM Core M4 Technology and are capable to drive motors with smooth and silent movements.

Brushless DC motor Drives	Current* (Arms)
Pegasus B072	up to 2 10
Pegasus B144	up to 3 11
Pegasus B360	up to 12 12
Gemini B400	up to 10 13
Leo B860 - NEW	up to 18 14
Leo B1400	up to 30 15
Leo B2000	up to 40 16
Leo B3800 - NEW	up to 80 17

PEGASUS	GEMINI
Benefits	Benefits
• Compact design • Price/performance • Programmable	• Digital I/O and up to 2 analogue inputs • Programmable
Characteristics	Characteristics
• Phase Current up to 12A rms • Power Supply: 12-48 VDC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP, Profinet, PowerLink, EtherNet/IP	• Phase Current up to 10A rms • Power Supply: 12-48 VDC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP

LEO
Benefits
• Compact design • High performance • High motor power
Characteristics
• Phase Current up to 80A rms • Power Supply: 12-60 VDC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP, Profinet, PowerLink, EtherNet/IP

* Phase Current

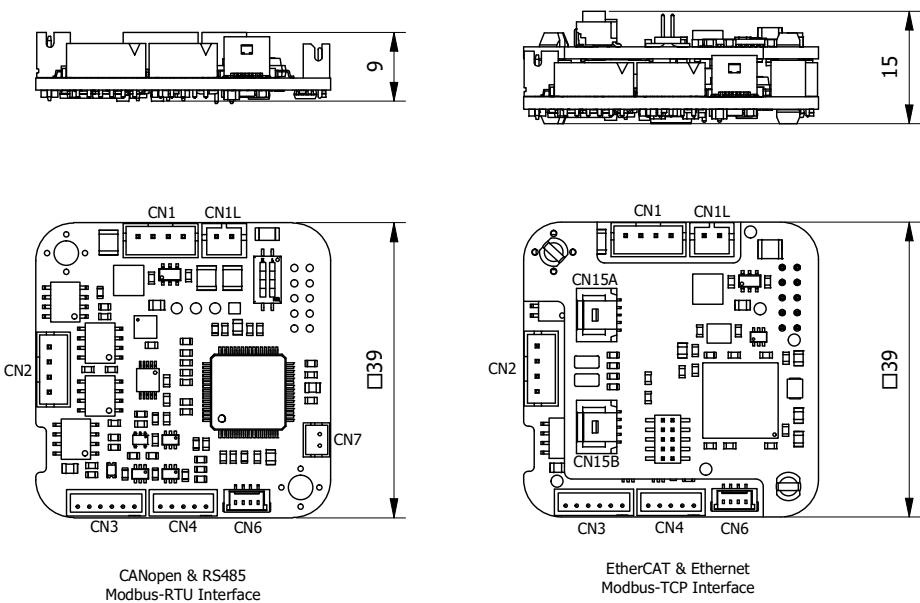
Drive for BLDC Motor

Pegasus B072O06

Motion Controller

up to 2A rms

- CN1: Power supply connector
- CN1L: Logic supply connector
- CN2: Motor connector
- CN3/CN7: Input and Output connector
- CN4: Feedback interfaces connector
- CN6: Service interface
- CN15A/B: Fieldbus connector



Electrical Data			
Item			
1	Phase Current	A rms	up to 2
2	Peak Current	A peak	2
3	Output Power	W	up to 72
4	Power Supply	VDC	12÷36
5	Logic Power Supply (optional)	VDC	12÷36
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	3	2	1
CANopen (programmable)	C...-S200	3	2	1
CANopen (DS 402)	C...-S402	3	2	1
Ethernet Modbus TCP/IP (programmable)	T...-S200	3	2	0
EtherCAT (DS 402)	E...-S402	3	2	0
Profinet (programmable)	P...-S200	3	2	0
PowerLink (DS 402)	R...-S402	3	2	0
EtherNet IP (programmable)	H...-S200	3	2	0

Cable kit available on request. More information can be found in the product manual on our website.

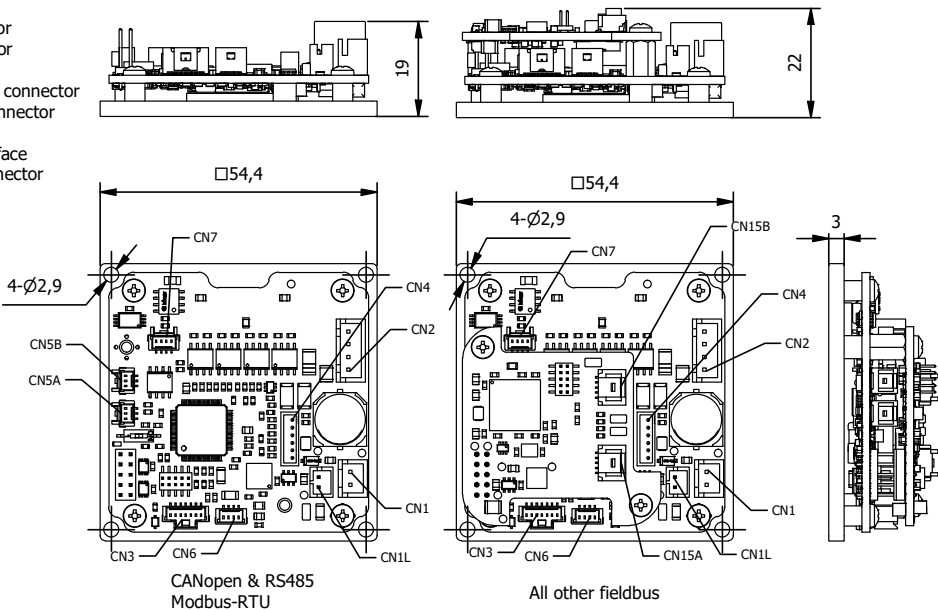
Characteristics	
Item	
Weight	15g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Supply inversion
Software*	Setup & config. - DL Studio Programming - DL Space
*Service SCI cable required and available on request	

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001

Product code reference	
B072O06 M 001-S200	
M	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 2A rms	

- CN1: Power Supply connector
- CN1L: Logic Supply connector
- CN2: Motor connector
- CN3/CN7: Input and Output connector
- CN4: Feedback Interface connector
- CN6: Service Interface
- CN5A/B: CAN/Modbus Interface
- CN15A/B: Multiprotocol connector



Electrical Data			
Item			
1	Phase Current	A rms	up to 3
2	Peak Current	A peak	3
3	Output Power	W	up to 144
4	Power Supply	VDC	12÷48
5	Logic Power Supply (optional)	VDC	12÷48
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	4	3	1
CANopen (programmable)	C...-S200	4	3	1
CANopen (DS 402)	C...-S402	4	3	1
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	1
EtherCAT (DS 402)	E...-S402	4	3	1
Profinet (programmable)	P...-S200	4	3	1
PowerLink (DS 402)	R...-S402	4	3	1
EtherNet IP (programmable)	H...-S200	4	3	1

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	27g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Supply inversion
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001
Absolute Encoder Biss-C	002

Product code reference	
B144O03 M 001-S200	
M	Fieldbus
001	Feedback options
S200	Protocol reference

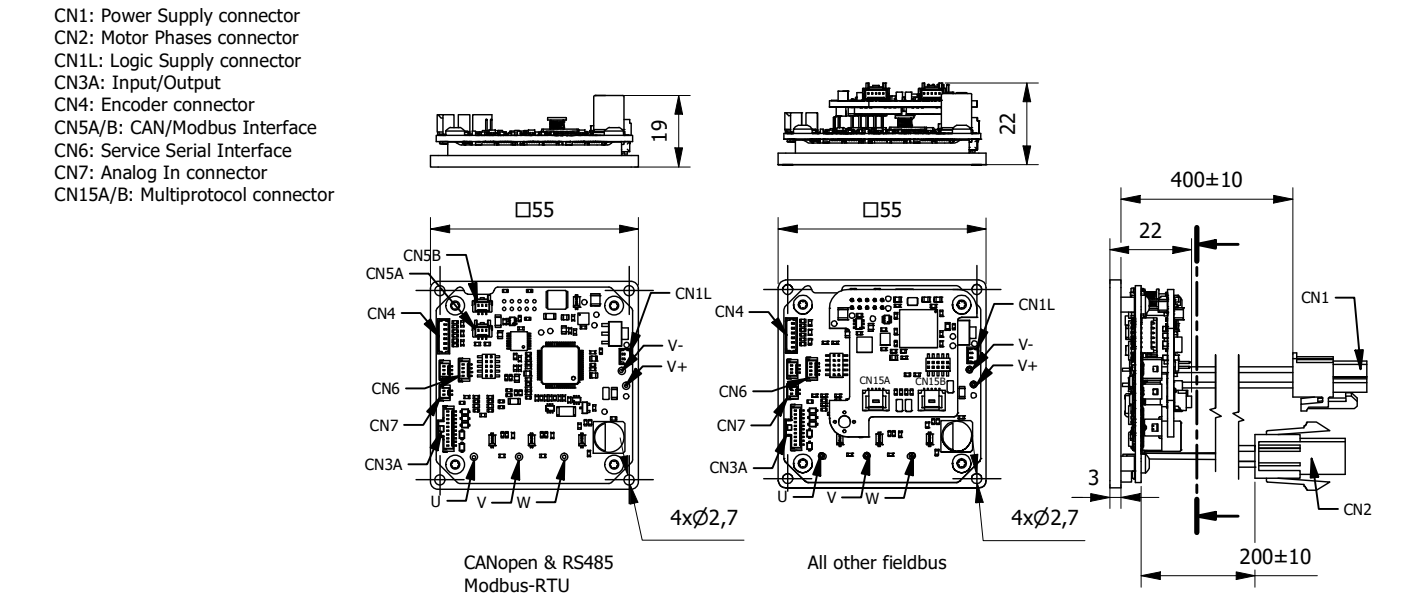
Standard Combination	
Motor	
All motors with Phase Current up to 3A rms	

Drive for BLDC Motor

Pegasus B360O30

up to 12A rms

Motion Controller



Electrical Data			
Item			
1	Phase Current	A rms	up to 12
2	Peak Current	A peak	30
3	Output Power	W	up to 360
4	Power Supply	VDC	12÷36
5	Logic Power Supply (optional)	VDC	12÷36
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	4	2	2
CANopen (programmable)	C...-S200	4	2	2
CANopen (DS 402)	C...-S402	4	2	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	2	1
EtherCAT (DS 402)	E...-S402	4	2	1
Profinet (programmable)	P...-S200	4	2	1
PowerLink (DS 402)	R...-S402	4	2	1
EtherNet IP (programmable)	H...-S200	4	2	1

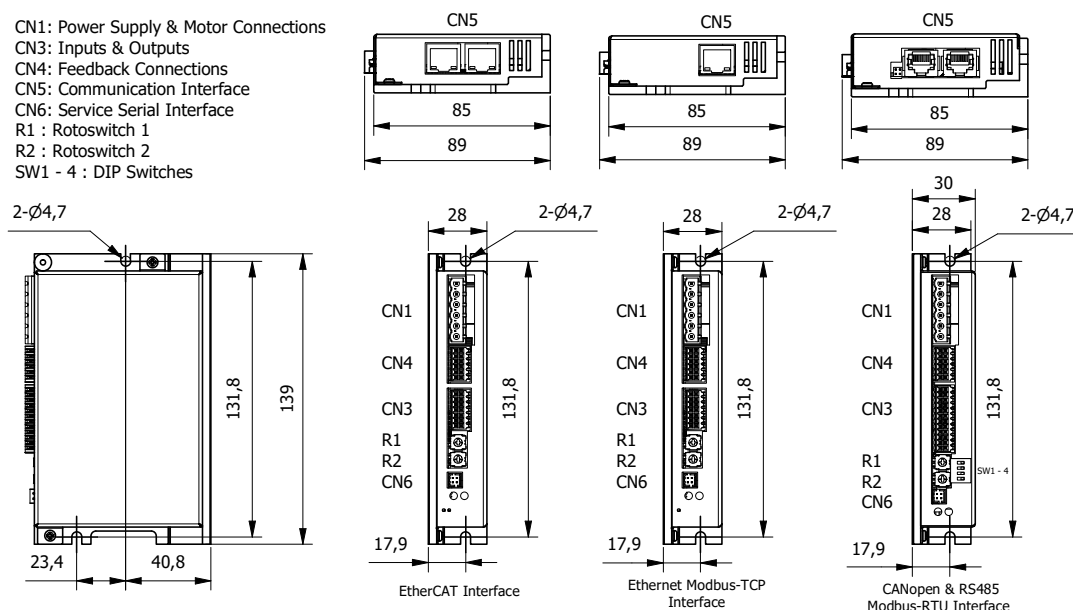
Cable kit available on request. More information can be found in the product manual on our website.

Characteristics		Feedback options	
Item		Type	Code
Weight	43g	Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Closed-loop	Available	Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001
Protection Class	IP20	Absolute Encoder Biss-C	002
Pollution Degree	2		
Category	C3 following standard EN 61800-3		
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C		
Humidity	5% ÷ 85% not condensing		
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode		
Protective functions	Over current, Over/Under Voltage, Overheating, Supply inversion		
Software*	Setup & config. - DL Studio Programming - DL Space		
*Service SCI cable required and available on request			

Standard Combination	
Motor	
All motors with Phase Current up to 12A rms	

Motion Controller

CN1: Power Supply & Motor Connections
 CN3: Inputs & Outputs
 CN4: Feedback Connections
 CN5: Communication Interface
 CN6: Service Serial Interface
 R1 : Rotoswitch 1
 R2 : Rotoswitch 2
 SW1 - 4 : DIP Switches



Electrical Data

Item			
1	Phase Current	A rms	up to 10
2	Peak Current	A peak	28 (for 5s.)
3	Output Power	W	up to 400
4	Power Supply	VDC	12÷48
5	Logic Power Supply (optional)	VDC	12÷48
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection

Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs (not isolated)
RS485 Modbus-RTU (programmable)	M...-S200	6	3	2
CANopen (programmable)	C...-S200	6	3	2
CANopen (DS 402)	C...-S402	6	3	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	0
EtherCAT (programmable)	E...-S200	4	3	0
EtherCAT (DS 402)	E...-S402	4	3	0

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics

Item	
Weight (CAN-Modbus only)	380g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options

Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001

Product code reference

B400B30 M 001-S200	
M	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination

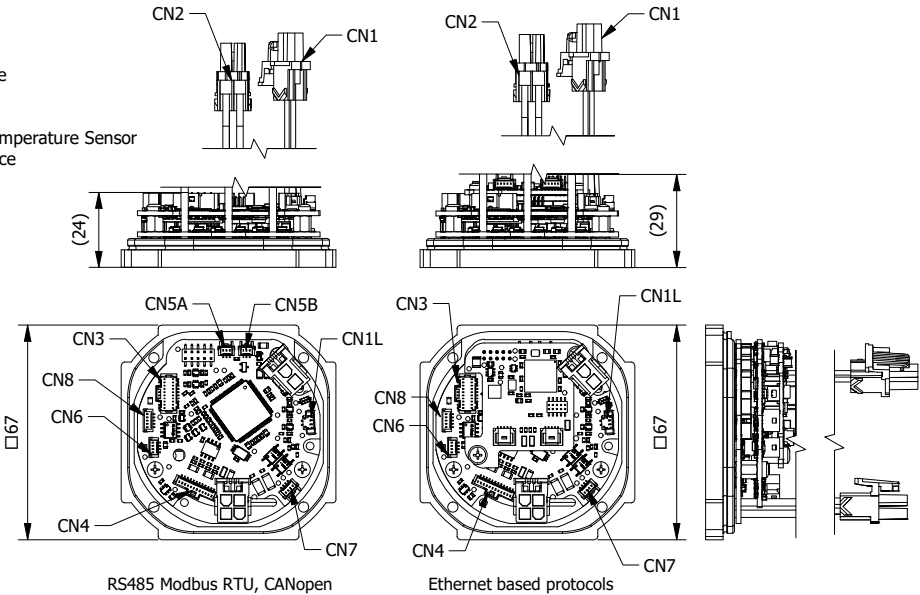
Motor
All motors with Phase Current up to 10A rms

Drive for BLDC Motor Leo B860O54

Motion Controller

up to 18A rms

- CN1: Power Supply connector
- CN2: Motor Phases connector
- CN3: Inputs and Outputs
- CN4: Feedback Input
- CN5A/B: Communication Interface
- CN6: Service Serial Interface
- CN7: STO Interface
- CN8: Brake Output + External Temperature Sensor
- CN15A/B: Communication Interface



with Safe Torque Off function

Electrical Data			
Item			
1	Phase Current	A rms	up to 18
2	Peak Current	A peak	54 (for 2s.)
3	Output Power	W	up to 860
4	Power Supply	VDC	12÷60
5	Logic Power Supply (optional)	VDC	12÷60
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs (not isolated)
RS485 Modbus-RTU (programmable)	M...-S200	4	3	2
CANopen (programmable)	C...-S200	4	3	2
CANopen (DS 402)	C...-S402	4	3	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	2
EtherCAT (DS 402)	E...-S402	4	3	2
Profinet (programmable)	P...-S200	4	3	2
PowerLink (DS 402)	R...-S402	4	3	2
EtherNet IP (programmable)	H...-S200	4	3	2

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	125g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/Pl
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Standard Combination	
Motor	
All motors with Phase Current up to 18A rms	

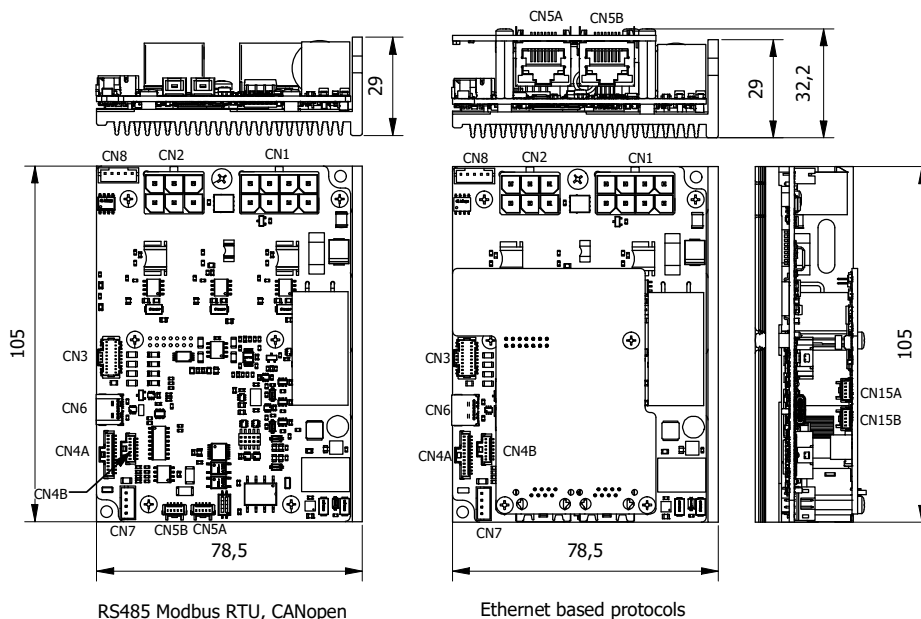
Other options	
Item	
With STO (Safe Torque Off function)	0
Without STO (Safe Torque Off function)	1

Feedback options	
Type	
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	01
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	01
Absolute Encoder BiSS	02

Product code reference	
B860O54 C 0 01-S200	
C	Fieldbus
0	Other options
01	Feedback options
S200	Protocol reference

Motion Controller

- CN1: Power Supply + Logic Supply +
Brake Resistor Outputs
- CN2: Motor connector
- CN3: Inputs and Outputs
- CN4A: Incremental Encoder + Hall
Sensor
- CN4B: Absolute Encoder
- CN5A/B: Communication Interface
- CN6: Service Serial Interface
- CN7: STO Interface
- CN8: Brake Output + External
Temperature Sensor
- CN15A/B: Communication Interface



with Safe Torque Off function
UL certified: UL E531627

Electrical Data			
Item			
1	Phase Current	A rms	up to 30
2	Peak Current	A peak	90 (for 2s.)
3	Output Power	W	up to 1400
4	Power Supply	VDC	12÷48
5	Logic Power Supply (optional)	VDC	12÷48
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs (not isolated)
RS485 Modbus-RTU (programmable)	L...-S200	4	3	2
CANopen (programmable)	L...-S200	4	3	2
CANopen (DS 402)	L...-S402	4	3	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	2
EtherCAT (DS 402)	E...-S402	4	3	2
Profinet (programmable)	P...-S200	4	3	2
PowerLink (DS 402)	R...-S402	4	3	2
EtherNet IP (programmable)	H...-S200	4	3	2

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	200g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/Pl
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	003
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	003
Absolute Encoder BiSS	003

Product code reference	
B1400O90 L 003-S200	
L	Fieldbus
003	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 30A rms	

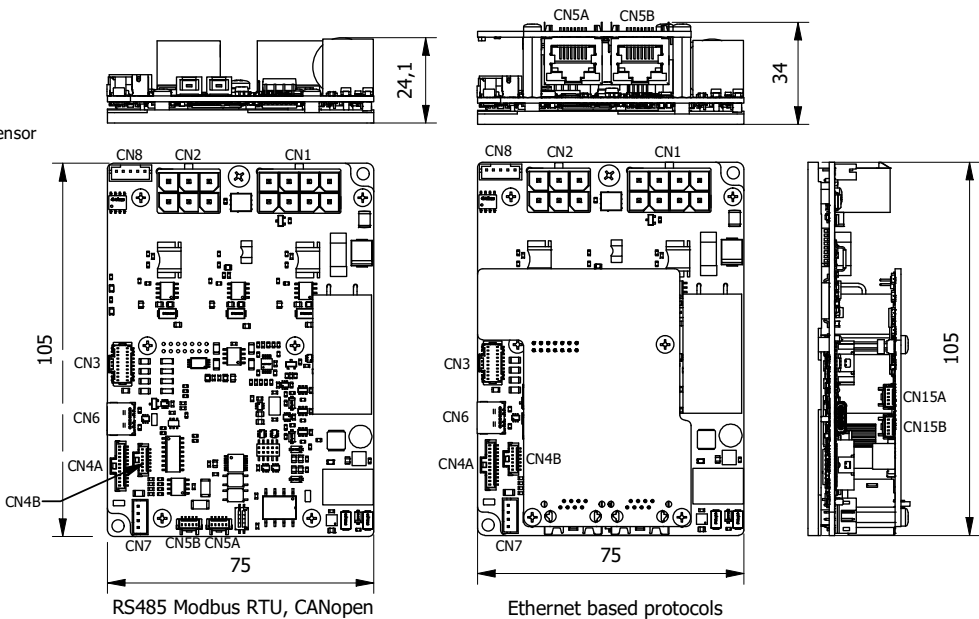
Drive for BLDC Motor

Motion Controller

Leo B2000O90

up to 40A rms

- CN1: Power Supply + Logic Supply + Brake Resistor Outputs
- CN2: Motor connector
- CN3: Inputs and Outputs
- CN4A: Incremental Encoder + Hall Sensor
- CN4B: Absolute Encoder
- CN5A/B: Communication Interface
- CN6: Service Serial Interface
- CN7: STO Interface
- CN8: Brake Output + External Temperature Sensor
- CN15A/B: Communication Interface



with Safe Torque Off function
UL certified: UL E531627

Electrical Data			
Item			
1	Phase Current	A rms	up to 40
2	Peak Current	A peak	90 (for 2s.)
3	Output Power	W	up to 2000
4	Power Supply	VDC	12÷48
5	Logic Power Supply (optional)	VDC	12÷48
6	Chopper Frequency	kHz	20

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs (not isolated)
RS485 Modbus-RTU (programmable)	L...-S200	4	3	2
CANopen (programmable)	L...-S200	4	3	2
CANopen (DS 402)	L...-S402	4	3	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	2
EtherCAT (DS 402)	E...-S402	4	3	2
Profinet (programmable)	P...-S200	4	3	2
PowerLink (DS 402)	R...-S402	4	3	2
EtherNet IP (programmable)	H...-S200	4	3	2

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	180g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/Ple
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	003
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	003
Absolute Encoder BiSS	003

Product code reference	
B2000O90 L 003-S200	
L	Fieldbus
003	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 40A rms	

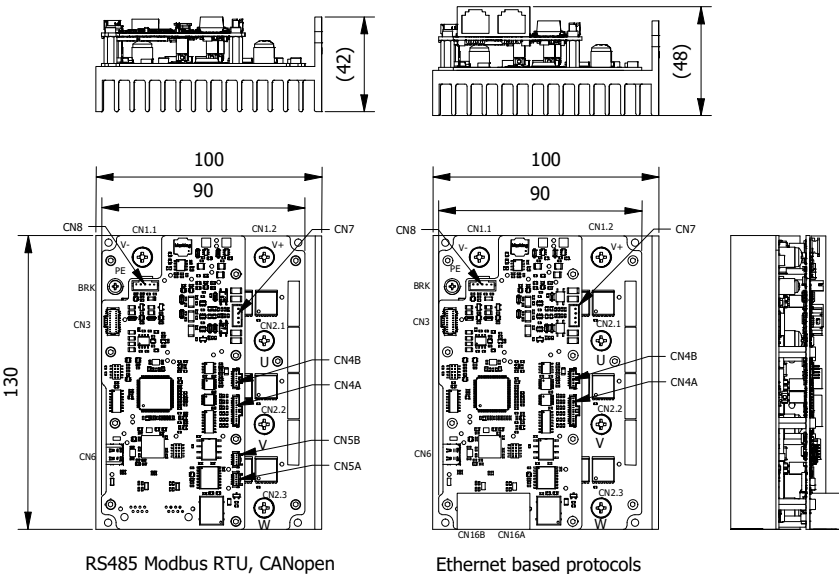
Drive for BLDC Motor

Motion Controller

Leo B3800O240

up to 80A rms

- CN1: Power Terminal Block
- CN2: Motor Terminal Block
- CN3: Inputs and Outputs
- CN4A: Incremental Encoder + Hall Sensor
- CN4B: Absolute Encoder
- CN6: Service Serial Interface
- CN5A/B: Communication Interface
- CN7: STO Interface
- CN8: Brake Output + External Temperature Sensor
- CN16A/B: Communication Interface



with Safe Torque Off function

Electrical Data			
Item			
1	Phase Current	A rms	up to 80
2	Peak Current	A peak	240 (for 2s.)
3	Output Power	W	up to 3800
4	Power Supply	VDC	12÷60
5	Logic Power Supply (optional)	VDC	12÷60
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs (not isolated)
RS485 Modbus-RTU (programmable)	L...-S200	4	3	2
CANopen (programmable)	L...-S200	4	3	2
CANopen (DS 402)	L...-S402	4	3	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	2
EtherCAT (DS 402)	E...-S402	4	3	2
Profinet (programmable)	P...-S200	4	3	2
PowerLink (DS 402)	R...-S402	4	3	2
EtherNet IP (programmable)	H...-S200	4	3	2

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	540g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/Plc
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001
Absolute Encoder BiSS	001

Product code reference	
B3800O240 L 001-S200	
L	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 80A rms	



BLDC motor Multi-Axis Controllers — Drives

Advantages at a glance
Position, Speed and Torque control
EtherCAT fieldbus
Flexible configuration

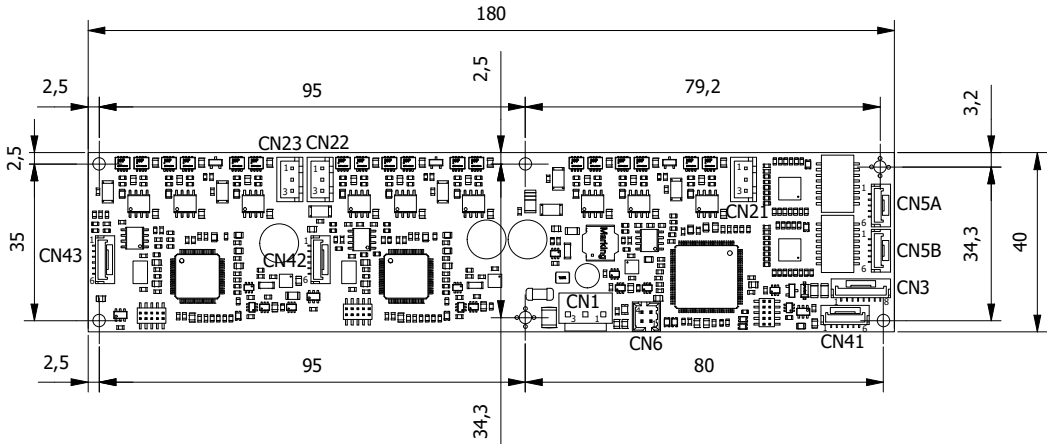
Brushless DC motor Multi-Axis Drives	Current* (Arms)	
Phoenix - B100	up to 3 (each motor)	20
Phoenix - B500	up to 12 (each motor)	21

Our Brushless Multi-Axis Drives (Phoenix B100 and Phoenix B500) are specifically developed to simultaneously control up to three BLDC 3-phase motors with phase current up to 12A rms (each motor). All our drives feature ARM Core M4 Technology and are capable to drive motors with smooth and silent movements.

PHOENIX B100	PHOENIX B500
Benefits • Compact dimensions • Digital I/O • Simultaneous control of up to 3 motors/axis	Benefits • Compact dimensions • Digital I/O • Simultaneous control of up to 3 motors/axis
Characteristics • Phase Current up to 3A rms for each motor • Power Supply: 12-48VDC • Fieldbus: EtherCAT	Characteristics • Phase Current up to 12A rms for each motor • Power Supply: 12-48VDC • Fieldbus: EtherCAT

* Phase Current

CN1: Power Supply
CN21, CN22, CN23: Motor connections
CN3: Digital Inputs and Outputs
CN41, CN42, CN43: Feedback connections
CN5A, CN5B: EtherCAT Interface Interface
CN6: Service SCI Connection



Electrical Data			
Item			
1	Phase Current (each axis)	A rms	up to 3
2	Peak Current (each axis)	A peak	5 (for 2s.)
3	Output Power	W	up to 100
4	Power Supply	VDC	12÷48
5	Logic Power Supply (optional)	VDC	12÷48
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs (not isolated)
EtherCAT (DS 402)	E...-S402	3	3	0
Cable kit available on request. More information can be found in the product manual on our website.				

Characteristics	
Item	
Weight	200g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Software*	Setup & config. - DL Studio
*Service SCI cable required and available on request	

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001

Product code reference	
B100O05 M3 E 001-S402	
M	Multi-axis
3	Number of axis
E	Fieldbus
001	Feedback options
S402	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 3A rms	

Drive for BLDC Motor

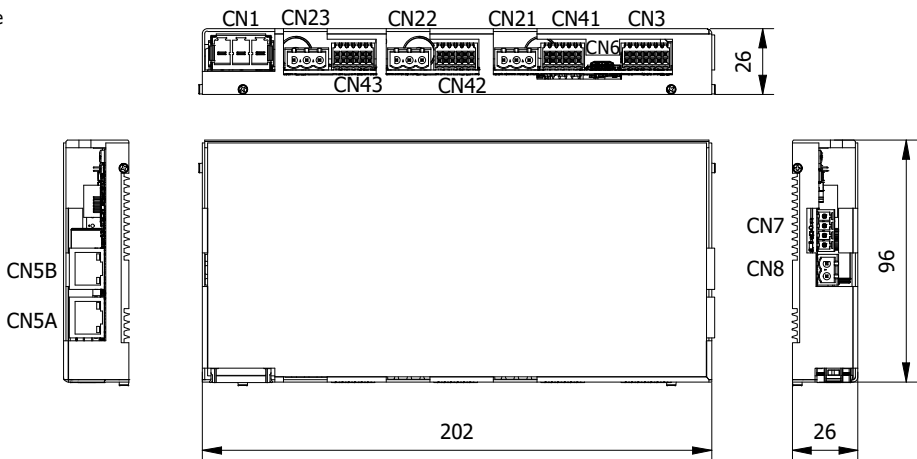
3-Axis Motion Controller

Phoenix B500B36M3

up to 12A rms

each motor

- CN1: Power Supply
- CN21, CN22, CN23: Motor connections
- CN3: Digital Inputs and Outputs
- CN41, CN42, CN43: Feedback connections
- CN5A, CN5B: EtherCAT Interface Interface
- CN6: Service SCI Connection
- CN7: STO Connection
- CN8: Brake Resistor connector



with Safe Torque Off function

Electrical Data			
Item			
1	Phase Current (each axis)	A rms	up to 12
2	Peak Current (each axis)	A peak	36 (for 2s.)
3	Output Power	W	up to 500
4	Power Supply	VDC	12÷48
5	Logic Power Supply (optional)	VDC	12÷48
6	Chopper Frequency	kHz	40

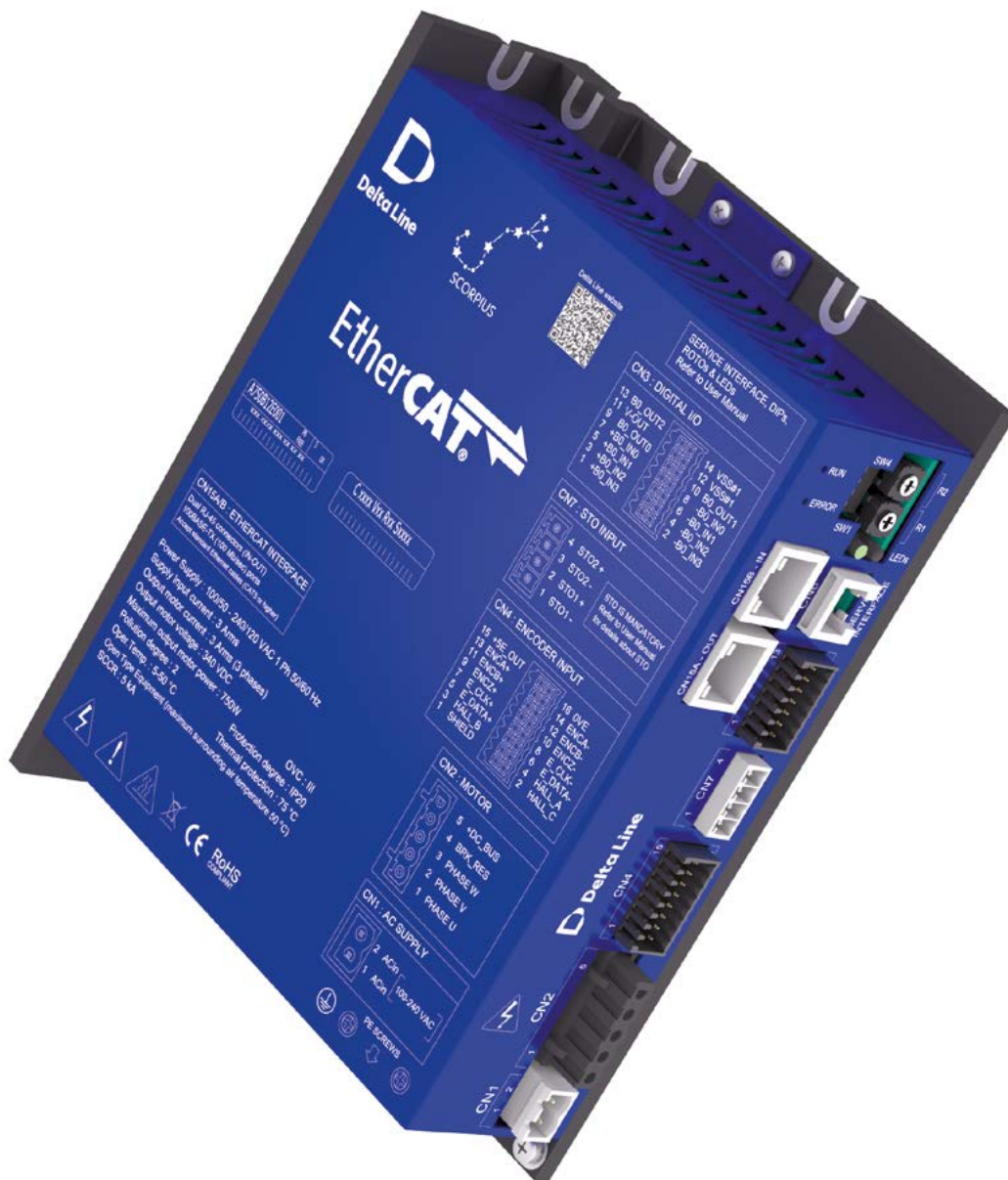
Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs (not isolated)
EtherCAT (DS 402)	E...-S402	3	3	0
Cable kit available on request. More information can be found in the product manual on our website.				

Characteristics	
Item	
Weight	300g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/Plc
Software*	Setup & config. - DL Studio
*Service SCI cable required and available on request	

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	002
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	002

Product code reference	
B500B36 M3 E 002-S402	
M	Multi-axis
3	Number of axis
E	Fieldbus
002	Feedback options
S402	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 12A rms	



Brushless AC motor

Controllers — Drives

Advantages at a glance
Position, Speed and Torque control
Analogue, fieldbus or programmable
Flexible configuration

Brushless AC motor Drives	Current* (Arms)	
Scorpius A750	up to 3	24
Serpens A1300	up to 5,2	25

Our Brushless AC Drives are specifically developed to control AC power supplied 3-phase brushless motors with phase current up to 5,2A rms. All our drives feature ARM Core M4 Technology and are capable to drive motors with smooth and silent movements.

SCORPIUS	SERPENS
Benefits	Benefits
• Compact dimensions • Digital I/O • Programmable	• Compact dimensions • Digital I/O • Programmable
Characteristics	Characteristics
• Phase Current up to 3A rms • Power Supply: 100-240 VAC • Fieldbus: RS485 Modbus RTU, CANopen and EtherCAT	• Phase Current up to 5,2A rms • Power Supply: 85-265 VAC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP and Profinet

* Phase Current

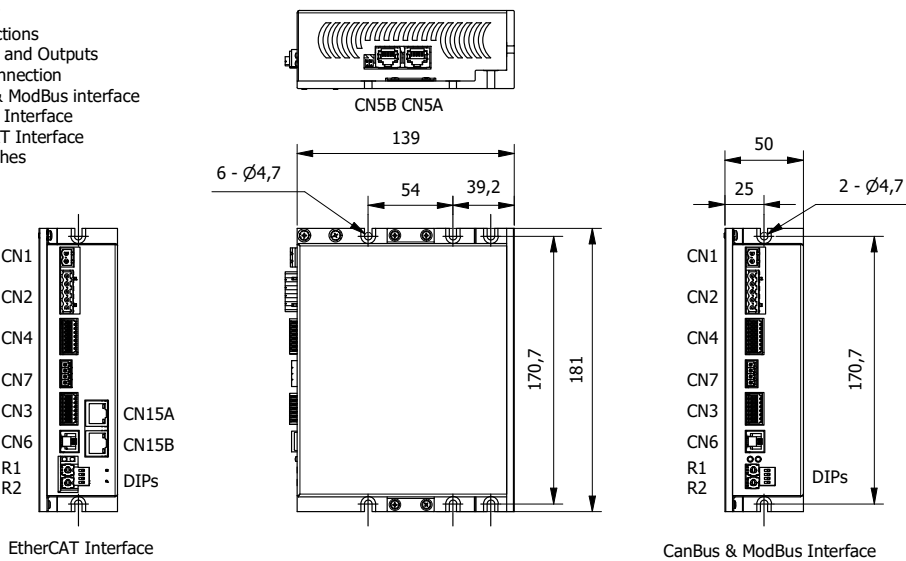
Drive for AC Brushless Motor

Motion Controller

Scorpius A750B12

up to 3A rms

CN1: Power Supply
CN2: Motor Connections
CN3: Digital Inputs and Outputs
CN4 : Feedback connection
CN5A/B : CanBus & ModBus interface
CN6: Service Serial Interface
CN15A/B : EtherCAT Interface
R1/R2 : Roto-Switches



with Safe Torque Off function

Electrical Data			
Item			
1	Phase Current	A rms	up to 3
2	Peak Current	A peak	12
3	Output Power	W	up to 750
4	Power Supply	VAC	100÷240
5	Logic Power Supply (optional)	VDC	24
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
RS485 Modbus-RTU (programmable)	L...-S200	4	3	0
CANopen (programmable)	L...-S200	4	3	0
CANopen (DS 402)	L...-S402	4	3	0
EtherCAT (DS 402)	E...-S402	4	3	0

Connector kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	800g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 50°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/PlE
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001
Absolute encoder: 5V BiSS-C or SSI interface (isolated)	001

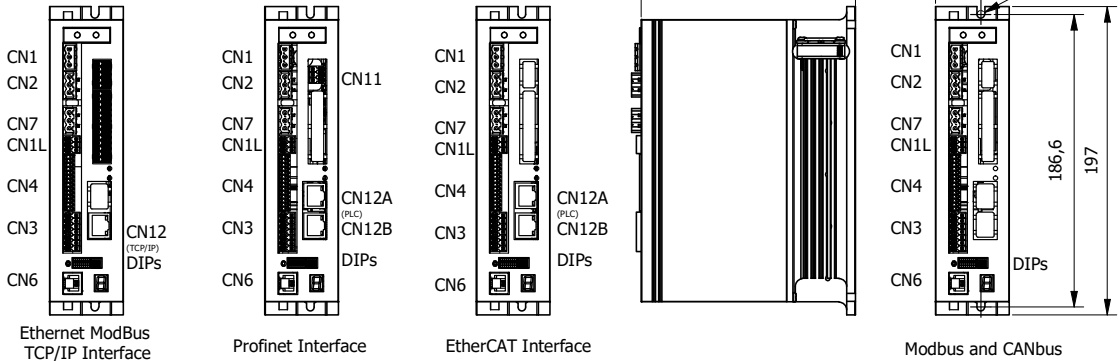
Product code reference	
A750B12 L 001-S200	
L	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 3A rms	

Drive for AC Brushless Motor Serpens A1300B12 up to 5,2A rms

Motion Controller

CN1: AC Power Supply
CN1L: 24Vdc Logic Supply and STO inputs
CN2: Motor Connections
CN3: Digital Inputs and Outputs
CN4 : Feedback connection
CN5A/B: CANbus & Modbus Interfaces
CN6: Service Serial Interface
CN7: Breaking resistor
CN11: 24Vdc Profinet Supply
CN12 : Ethernet Interface
CN12A/B : Profinet Interface - EtherCAT Interface



with Safe Torque Off function

Electrical Data			
Item			
1	Phase Current	A rms	up to 5,2
2	Peak Current	A peak	12
3	Output Power	W	up to 1300
4	Power Supply	VAC	(mono or triphase) 85÷265
5	Logic Power Supply (optional)	VDC	24
6	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs (isolated)
RS485 Modbus-RTU (programmable)	L...-S200	4	3	1
CANopen (programmable)	L...-S200	4	3	1
CANopen (DS 402)	L...-S402	4	3	1
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	0
EtherCAT (DS 402)	E...-S402	4	3	0
Profinet (programmable)	P...-S200	4	3	0

Connector kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	550g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 50°C Storage -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Profile position/velocity/homing mode, Cyclic sync position/velocity/torque mode
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/Plc
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Hall effect sensors: 5V Single-Ended (TTL/CMOS)	001
Absolute encoder: 5V BiSS-C or SSI interface (isolated)	001

Product code reference	
A1300B12 L 001-S200	
L	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 5,2A rms	



Stepper motor **Controllers — Drives**

Advantages at a glance
Position, Speed and Torque control
Analogue, fieldbus or programmable
Flexible configuration

Our Stepper Drives are specifically developed for 2-phases stepper motors with phase current up to 8,5A rms and offer solutions for both DC and AC power supply. All our drives feature ARM Core M4 Technology and are capable to drive motors with smooth and silent movements.

Stepper motor Drives	Current* (Arms)
Hercules SOD202	up to 2 28
Hercules SOD203	up to 3 29
Libra SBD205	up to 5,5 30
Aquarius SBD204	up to 4,2 31
Aquarius SBD207	up to 7,1 32
Sagittarius SBA207	up to 7,1 33
Andromeda SBA208	up to 8,5 34
Lyra SBAC203	up to 3 35
Draco SBAC205	up to 5,2 36
Dorado SBAC208	up to 8 37

HERCULES	AQUARIUS
Benefits	Benefits
• Compact design • Price/performance • Programmable • DC power supply	• Digital I/O and up to 2 analogue inputs • Programmable • DC power supply
Characteristics	Characteristics
• Phase Current up to 3A rms • Power Supply: 12-48 VDC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP, Profinet, PowerLink, EtherNet/IP	• Phase Current up to 7,1A rms • Power Supply: 12-48 VDC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP, Profinet

LIBRA	SAGITTARIUS	ANDROMEDA
Benefits	Benefits	Benefits
• Price/performance • Simple usage • DC power supply	• Digital I/O and up to 2 analogue inputs • Programmable • AC or DC power supply	• Digital I/O and up to 2 analogue inputs • Programmable • AC or DC power supply
Characteristics	Characteristics	Characteristics
• Phase Current up to 5,5A rms • Power Supply: 24-80 VDC • Clock & Direction control	• Phase Current up to 7,1A rms • Power Supply: 18-56 VAC or 24-80 VDC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP	• Phase Current up to 8,5A rms • Power Supply: 18-100 VAC or 24-140 VDC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP

LYRA	DRACO	DORADO
Benefits	Benefits	Benefits
• Digital I/O • Programmable • AC power supply	• Digital I/O and up to 1 analogue inputs • Programmable • AC power supply	• Digital I/O and up to 1 analogue inputs • Programmable • AC power supply
Characteristics	Characteristics	Characteristics
• Phase Current up to 3A rms • Power Supply: 100-240 VAC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Clock&Direction	• Phase Current up to 5,2A rms • Power Supply: 85-265 VAC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP, Profinet	• Phase Current up to 8A rms • Power Supply: 85-120 VAC • Fieldbus: RS485 ModBus RTU, CANopen, EtherCAT, Ethernet ModBus TCP, Profinet

* Phase Current

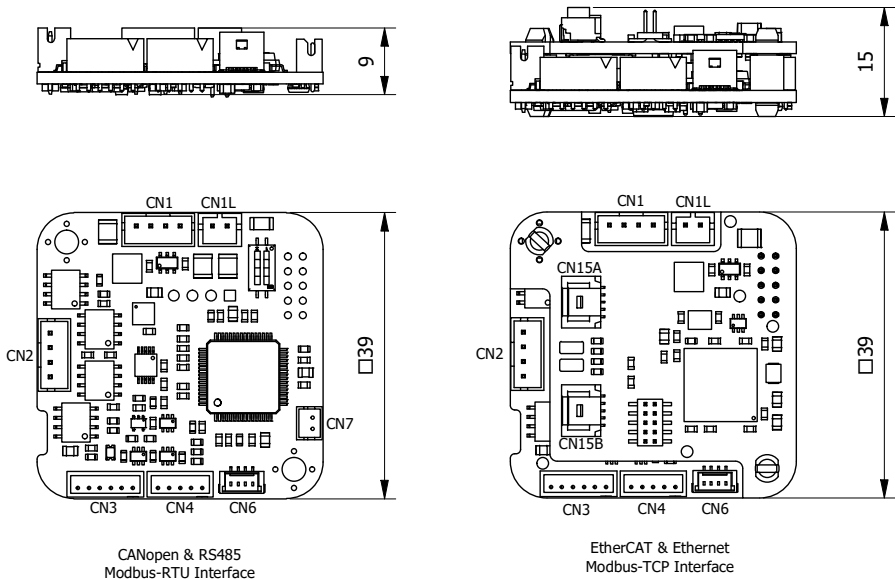
Drive for Stepper Motor

Motion Controller

Hercules SOD202

up to 2A rms

- CN1: Power supply connector
- CN1L: Logic supply connector
- CN2: Motor connector
- CN3/CN7: Input and Output connector
- CN4: Feedback interfaces connector
- CN6: Service interface
- CN15A/B: Fieldbus connector



Electrical Data			
Item			
1	Phase Current	A rms	up to 2
2	Peak Current	A peak	2
3	Power Supply	VDC	12÷36
4	Logic Power Supply (optional)	VDC	12÷36
5	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	3	2	1
CANopen (programmable)	C...-S200	3	2	1
CANopen (DS 402)	C...-S402	3	2	1
Ethernet Modbus TCP/IP (programmable)	T...-S200	3	2	0
EtherCAT (DS 402)	E...-S402	3	2	0
Profinet (programmable)	P...-S200	3	2	0
PowerLink (DS 402)	R...-S402	3	2	0
EtherNet IP (programmable)	H...-S200	3	2	0

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	15g
Closed-loop	Available
Protection Class	IPO0
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Supply inversion
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

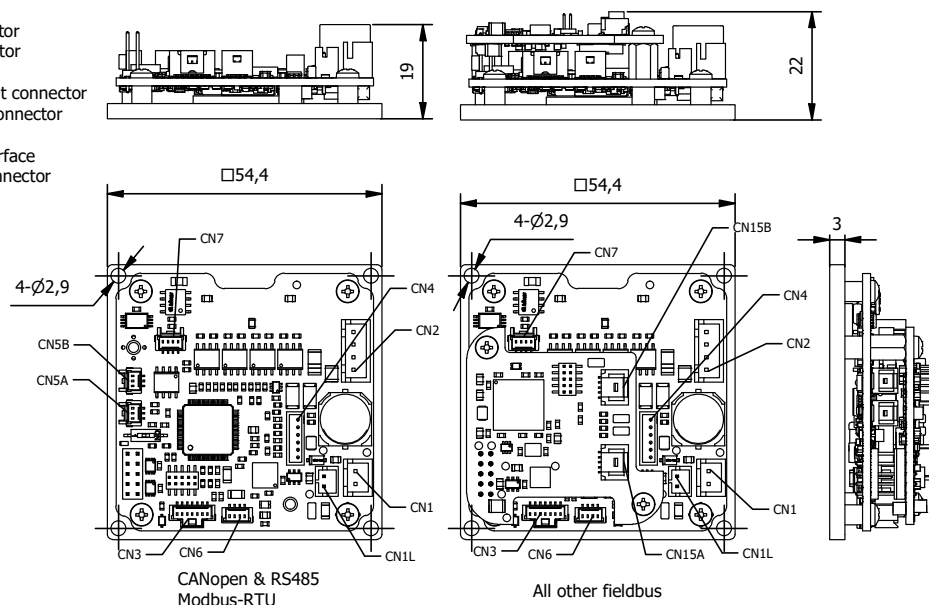
Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Single-Ended (TTL/CMOS)	001

Product code reference	
SOD202 M 001-S200	
M	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 2A rms	

Motion Controller

CN1: Power Supply connector
CN1L: Logic Supply connector
CN2: Motor connector
CN3/CN7: Input and Output connector
CN4: Feedback Interface connector
CN6: Service Interface
CN5A/B: CAN/Modbus Interface
CN15A/B: Multiprotocol connector



Electrical Data

Item			
1	Phase Current	A rms	up to 3
2	Peak Current	A peak	3
3	Power Supply	VDC	12÷48
4	Logic Power Supply (optional)	VDC	12÷48
5	Chopper Frequency	kHz	40

Interface Control Mode & Connection

Fieldbus	Code	Digital Inputs (not isolated)	Digital Outputs (not isolated)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	4	3	1
CANopen (programmable)	C...-S200	4	3	1
CANopen (DS 402)	C...-S402	4	3	1
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	0
EtherCAT (DS 402)	E...-S402	4	3	0
Profinet (programmable)	P...-S200	4	3	0
PowerLink (DS 402)	R...-S402	4	3	0
EtherNet IP (programmable)	H...-S200	4	3	0

Cable kit available on request. More information can be found in the product manual on our website.

Characteristics

Item	
Weight	27g
Closed-loop	Available
Protection Class	IP00
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Supply inversion
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options

Type	Code
Incremental encoder (not isolated): 5V Single-Ended (TTL/CMOS)	002
Absolute Encoder Biss-C	003

Product code reference

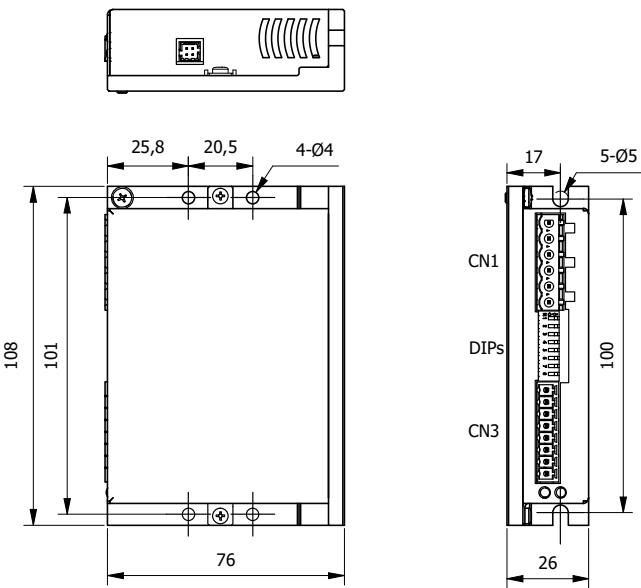
SOD203 M 002-S200	
M	Fieldbus
002	Feedback options
S200	Protocol reference

Standard Combination

Motor

All motors with Phase Current up to 3A rms

CN1: Power Supply
CN3: Digital I/O



Electrical Data			
Item			
1	Phase Current	A rms	up to 5,5
2	Peak Current	A peak	7.8
3	Power Supply	VDC	24 ÷ 80
4	Chopper Frequency	kHz	40

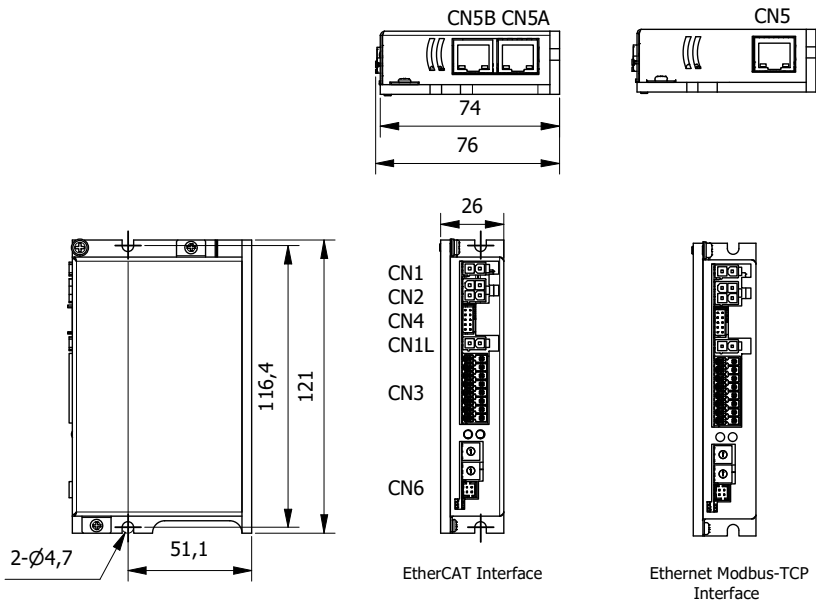
Interface Control Mode & Connection				
Operating Mode	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
Clock & Direction	N...-S100	3	1	0
Connector kit included. More information can be found in the product manual on our website.				

Characteristics	
Item	
Weight	200g
Closed-loop	Not available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: from Fullstep to 1/100 step (config. with dip switches)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Service SCI cable required for monitoring and available on request	

Product code reference	
SBD205 N 001-S100	
N	Operating mode
001	Standard version
S100	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 5,5A rms	

- CN1: Power Supply
- CN2: Motor Connections
- CN1L: Logic Power Supply
- CN3: Inputs and Outputs
- CN4: Feedback Connections
- CN5: Communication Interface
- CN6: Service Serial Interface



Electrical Data			
Item			
1	Phase Current	A rms	up to 4,2
2	Peak Current	A peak	6
3	Power Supply	VDC	12÷48
4	Logic Power Supply (optional)	VDC	12÷48
5	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	2	0
EtherCAT (DS 402)	E...-S402	4	2	0

Cable and Connector kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	350g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Software*	Setup & config. - DL Studio Programming - DL Space

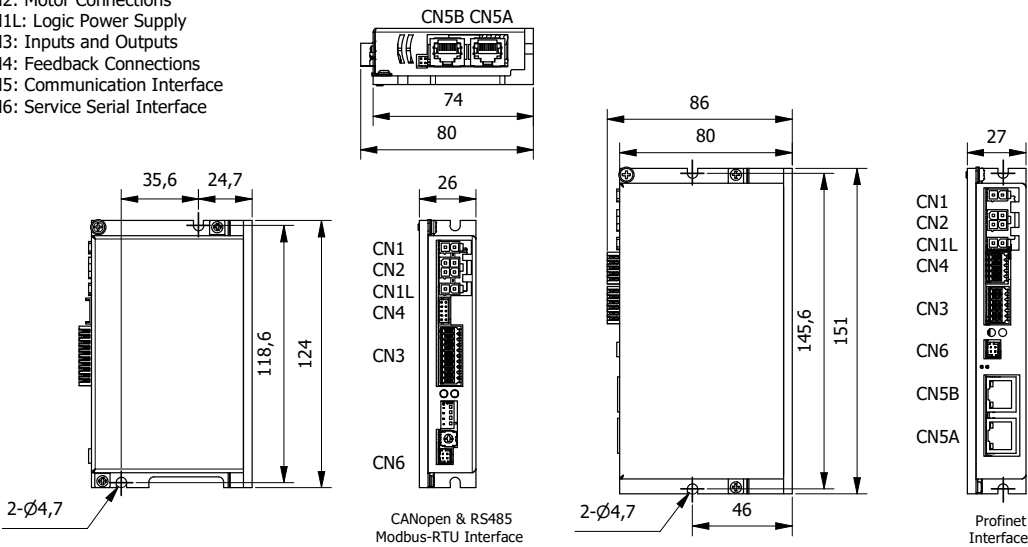
*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Absolute Encoder Biss-C	002

Product code reference	
SBD204 T 001-S200	
T	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 4,2A rms	

- CN1: Power Supply
- CN2: Motor Connections
- CN1L: Logic Power Supply
- CN3: Inputs and Outputs
- CN4: Feedback Connections
- CN5: Communication Interface
- CN6: Service Serial Interface



Electrical Data			
Item			
1	Phase Current	A rms	up to 7,1
2	Peak Current	A peak	10
3	Power Supply	VDC	12÷48
4	Logic Power Supply (optional)	VDC	12÷48
5	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	4	3	2
CANopen (programmable)	C...-S200	4	3	2
CANopen (DS 402)	C...-S402	4	3	2
Profinet (programmable)	P...-S200	4	2	0

Cable and Connector kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	280g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Software*	Setup & config. - DL Studio Programming - DL Space

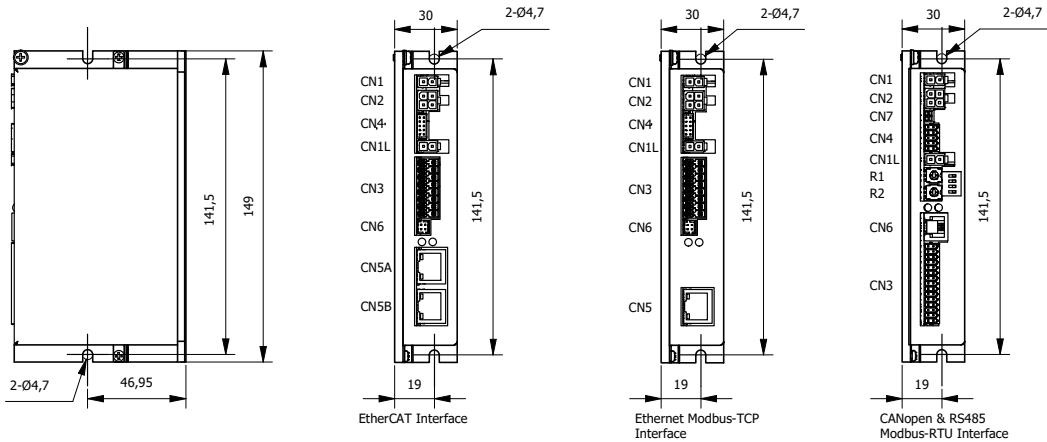
*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Absolute Encoder Biss-C	002

Product code reference	
SBD207 M 001-S200	
M	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 7,1A rms	

CN1: Power Supply
CN1L: Logic Power Supply
CN2: Motor Connections
CN3: Inputs and Outputs
CN4: Feedback Connections
CN5: Communication Interface
CN6: Service Serial Interface



Electrical Data				
	Item			
1	Phase Current	A rms	up to 7,1	
2	Peak Current	A peak	10	
3	Power Supply		18÷56VAC or 24÷80VDC	
4	Logic Power Supply (optional)	VDC	24	
5	Chopper Frequency	kHz	40	

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	4	2	2
CANopen (programmable)	C...-S200	4	2	2
CANopen (DS 402)	C...-S402	4	2	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	2	0
EtherCAT (DS 402)	E...-S402	4	2	0

Cable and Connector kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	450g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Software*	Setup & config. - DL Studio Programming - DL Space

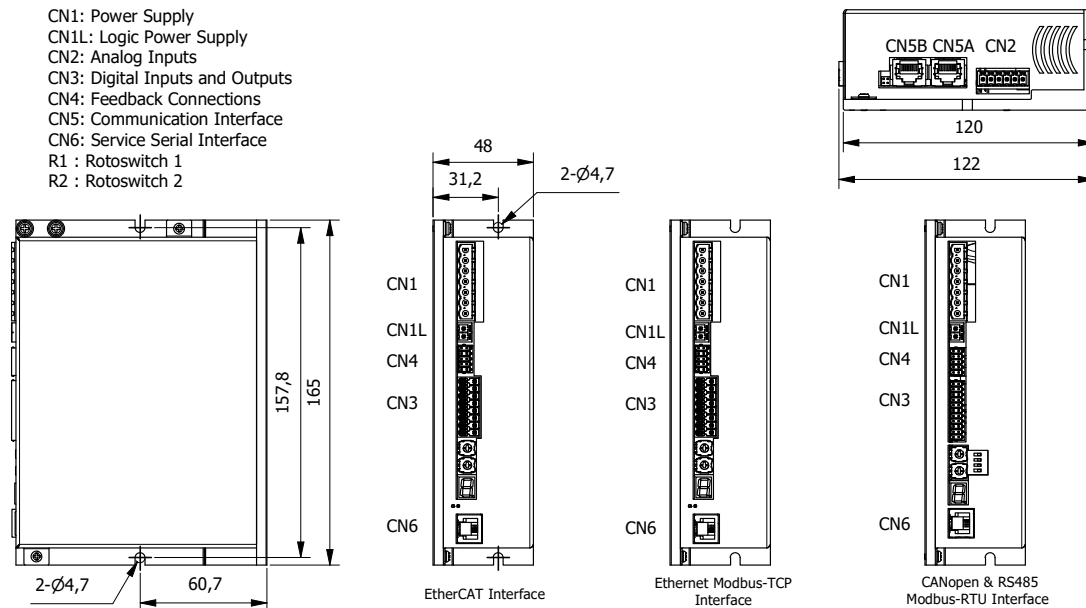
*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Absolute Encoder Biss-C	002

Product code reference	
SBA207 M 001-S200	
M	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 7,1A rms	

Motion Controller



Electrical Data

Item			
1	Phase Current	A rms	up to 8,5
2	Peak Current	A peak	12
3	Power Supply		18÷100VAC or 24÷140VDC
4	Logic Power Supply (optional)		18÷100VAC or 24÷140VDC
5	Chopper Frequency	kHz	40

Interface Control Mode & Connection

Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
RS485 Modbus-RTU (programmable)	M...-S200	6	4	2
CANopen (programmable)	C...-S200	6	4	2
CANopen (DS 402)	C...-S402	6	4	2
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	2	0
EtherCAT (DS 402)	E...-S402	4	2	0

Connector kit available on request. More information can be found in the product manual on our website.

Characteristics

Item	
Weight	550g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options

Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Absolute Encoder Biss-C	002

Product code reference

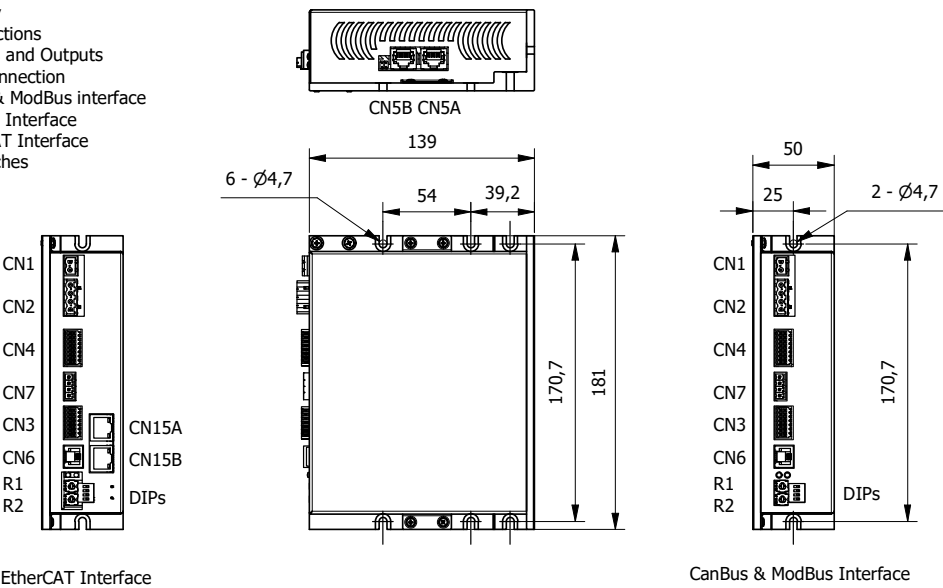
SBA208 M 001-S200	
M	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination

Motor

All motors with Phase Current up to 8,5A rms

- CN1: Power Supply
- CN2: Motor Connections
- CN3: Digital Inputs and Outputs
- CN4 : Feedback connection
- CN5A/B : CanBus & ModBus interface
- CN6: Service Serial Interface
- CN15A/B : EtherCAT Interface
- R1/R2 : Roto-Switches



with Safe Torque Off function

Electrical Data			
Item			
1	Phase Current	A rms	up to 3
2	Peak Current	A peak	4.2
3	Power Supply	VAC	100÷240
4	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus / Operating Mode	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
Clock and Direction	N...-S100	4	3	0
RS485 Modbus-RTU (programmable)	L...-S200	4	3	0
CANopen (programmable)	L...-S200	4	3	0
CANopen (DS 402)	L...-S402	4	3	0
EtherCAT (DS 402)	E...-S402	4	3	0

Connector kit available on request. More information can be found in the product manual on our website.

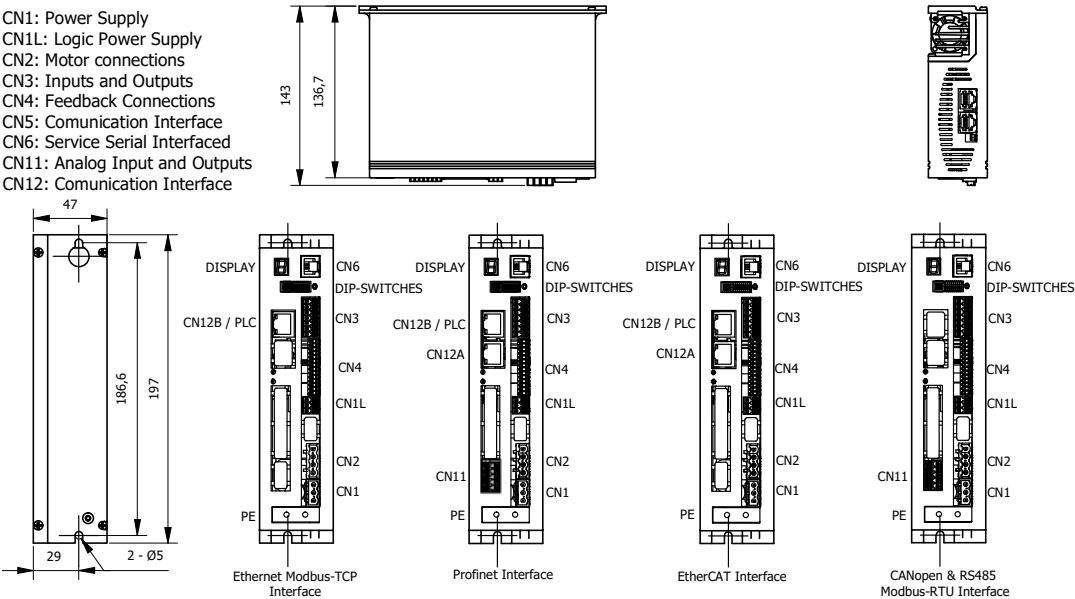
Characteristics	
Item	
Weight	800g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode (N)	Clock and Direction
Operating mode (L-E fieldbus)	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/PLe
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Absolute encoder: 5V SSI or BISS-C (isolated)	001

Product code reference	
SBAC203 L 001-S200	
L	Fieldbus / Operating mode
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 3A rms	



with Safe Torque Off function

Electrical Data			
Item			
1	Phase Current	A rms	up to 5,2
2	Peak Current	A peak	7,3
3	Power Supply (monophase-triphas)	VAC	85÷265
4	Logic Power Supply (mandatory)	VDC	24
5	Chopper Frequency	kHz	40

Interface Control Mode & Connection				
Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
RS485 Modbus-RTU (programmable)	L...-S200	4	3	1
CANopen (programmable)	L...-S200	4	3	1
CANopen (DS 402)	L...-S402	4	3	1
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	0
EtherCAT (DS 402)	E...-S402	4	3	0
Profinet (programmable)	P...-S200	4	3	0

Connector kit available on request. More information can be found in the product manual on our website.

Characteristics	
Item	
Weight	550g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/PLe
Software	Setup & config. - DL Studio Programming - DL Space

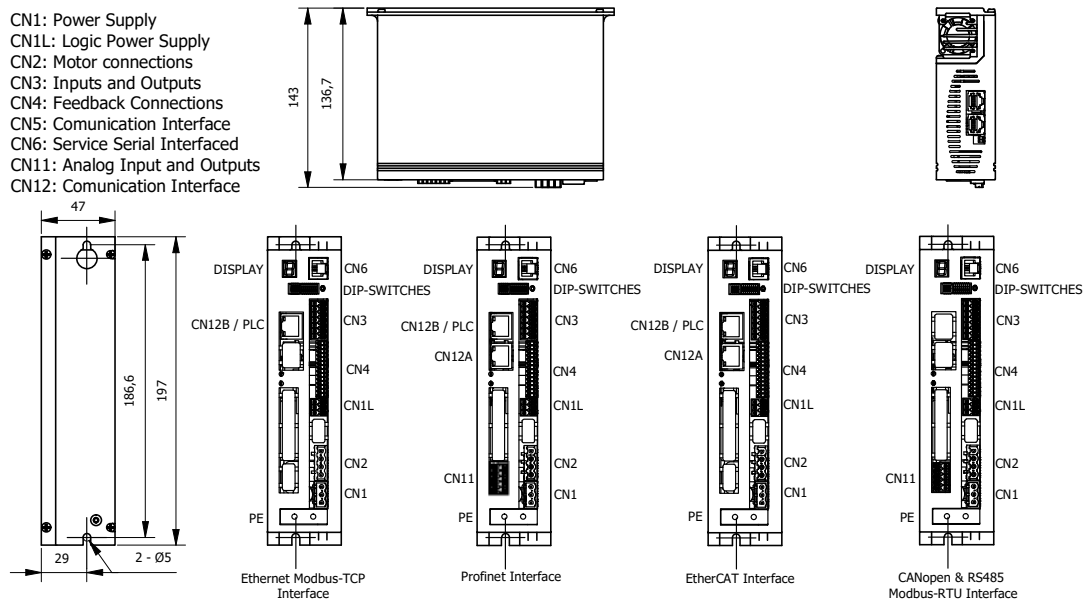
*Service SCI cable required and available on request

Feedback options	
Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Absolute encoder: 5V SSI or BISS-C (isolated)	001

Product code reference	
SBAC205 L 001-S200	
L	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination	
Motor	
All motors with Phase Current up to 5,2A rms	

Motion Controller - High voltage



with Safe Torque Off function

Electrical Data

Item			
1	Phase Current	A rms	up to 8
2	Peak Current	A peak	11,3
3	Power Supply (monophase-triphas)	VAC	85÷120
4	Logic Power Supply (mandatory)	VDC	24
5	Chopper Frequency	kHz	40

Interface Control Mode & Connection

Fieldbus	Code	Digital Inputs (opto-coupled)	Digital Outputs (opto-coupled)	Analog Inputs
RS485 Modbus-RTU (programmable)	L...-S200	4	3	1
CANopen (programmable)	L...-S200	4	3	1
CANopen (DS 402)	L...-S402	4	3	1
Ethernet Modbus TCP/IP (programmable)	T...-S200	4	3	0
EtherCAT (DS 402)	E...-S402	4	3	0
Profinet (programmable)	P...-S200	4	3	0

Connector kit available on request. More information can be found in the product manual on our website.

Characteristics

Item	
Weight	550g
Closed-loop	Available
Protection Class	IP20
Pollution Degree	2
Category	C3 following standard EN 61800-3
Temperatures	Working: 5°C ÷ 40°C Storage: -25°C ÷ 55°C
Humidity	5% ÷ 85% not condensing
Operating mode	Step resolution: Stepless Control Technology (65536 emulated positions per turn)
Protective functions	Over current, Over/Under Voltage, Overheating, Short circuit
Safety feature	Safe Torque Off (STO) SIL3/PLe
Software*	Setup & config. - DL Studio Programming - DL Space

*Service SCI cable required and available on request

Feedback options

Type	Code
Incremental encoder (not isolated): 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)	001
Absolute encoder: 5V SSI or BISS-C (isolated)	001

Product code reference

SBAC208 L 001-S200	
L	Fieldbus
001	Feedback options
S200	Protocol reference

Standard Combination

Motor

All motors with Phase Current up to 8A rms

To see our full range of
Controllers/Drives please visit:



www.delta-line.com

Brushless Motor Drives/Controllers						
	Pegasus B072	Pegasus B144	Pegasus B360	Gemini B400	Leo B860	Leo B1400
Housing				X		
Axis	1	1	1	1	1	1
Power Supply	12-36VDC	12-48VDC	12-36VDC	12-48VDC	12-60VDC	12-48VDC
Phase Current (A rms)	up to 2	up to 3	up to 12	up to 10	up to 18	up to 30
Peak Current (A peak)	2	3	30	28	54	90
Output Power (W)	up to 72	up to 144	up to 360	up to 400	up to 860	up to 1400
Modbus-RTU	X	X	X	X	X	X
CANopen	X	X	X	X	X	X
Modbus-TCP	X	X	X	X	X	X
EtherCAT	X	X	X	X	X	X
Profinet	X	X	X		X	X
PowerLink	X	X	X		X	X
EtherNet/IP	X	X	X		X	X
Closed -loop	X	X	X		X	X
Hall effect sensors	X	X	X	X	X	X
Incremental Encoder	X	X	X	X	X	X
Absolute Encoder		X	X		X	X
STO Safe Torque Off					X	X
UL certified						X

Stepper Motor Drives/Controllers					
	Hercules SOD202	Hercules SOD203	Libra SBD205	Aquarius SBD204	Aquarius SBD207
Housing			X	X	X
Axis	1	1	1	1	1
Power Supply	12-36VDC	12-48VDC	24-80VDC	12-48VDC	12-48VDC
Phase Current (A rms)	up to 2	up to 3	up to 5,5	up to 4,2	up to 7,1
Peak Current (A peak)	2	3	7,8	6	10
Clock & Direction			X		
Modbus-RTU	X	X			X
CANopen	X	X			X
Modbus-TCP	X	X		X	
EtherCAT	X	X		X	
Profinet	X	X			X
PowerLink	X	X			
EtherNet/IP	X	X			
Closed -loop	X	X		X	X
Incremental Encoder	X	X		X	X
Absolute Encoder		X		X	X
STO Safe Torque Off					
UL certified					

Our Controllers/Drives

Leo B2000	Leo B3800	Phoenix B100	Phoenix B500	Scorpius A750	Serpens A1300	
			X	X	X	Housing
1	1	3	3	1	1	Axis
12-48VDC	12-60VDC	12-48VDC	12-48VDC	100-240VAC	85-265VAC	Power Supply
up to 40	up to 80	up to 3 (each)	up to 12 (each)	up to 3	up to 5,2	Phase Current (A rms)
90	240	5	36	12	12	Peak Current (A peak)
up to 2000	up to 3800	up to 100	up to 500	up to 750	up to 1300	Output Power (W)
X	X			X	X	Modbus-RTU
X	X			X	X	CANopen
X	X				X	Modbus-TCP
X	X	X	X	X	X	EtherCAT
X	X				X	Profinet
X	X					PowerLink
X	X					EtherNet/IP
X	X	X	X	X	X	Closed -loop
X	X	X	X	X	X	Hall effect sensors
X	X	X	X	X	X	Incremental Encoder
X	X			X	X	Absolute Encoder
X	X		X	X	X	STO Safe Torque Off
X						UL certified

Sagittarius SBA207	Andromeda SBA208	Lyra SBAC203	Draco SBAC205	Dorado SBAC208	
X	X	X	X	X	Housing
1	1	1	1	1	Axis
24-80VDC/18-56VAC	24-140VDC/18-100VAC	100-240VAC	85-265VAC	85-120VAC	Power Supply
up to 7,1	up to 8,5	up to 3	up to 5,2	up to 8	Phase Current (A rms)
10	12	4,2	7,3	11,3	Peak Current (A peak)
					Clock & Direction
X	X	X	X	X	Modbus-RTU
X	X	X	X	X	CANopen
X	X		X	X	Modbus-TCP
X	X	X	X	X	EtherCAT
			X	X	Profinet
					PowerLink
					EtherNet/IP
X	X	X	X	X	Closed -loop
X	X	X	X	X	Incremental Encoder
X	X	X	X	X	Absolute Encoder
		X	X	X	STO Safe Torque Off
					UL certified

To see our full range
please visit our website:



www.delta-line.com



_ Coreless
_ PMDC

_ Slotted & Slotless
_ Flat
_ Frameless
_ with encoder

Brushed DC Motors
Ø 8-63mm

Brushless DC Motors
Ø 10-115 mm

Motors



_ for Stepper motors
_ for Brushless motors

_ Speed Controller
_ Motion Controller

Controllers / Drives
Phase current 2 to 80A rms

**BLDC, Servo &
Stepper with Controller**
Ø 16-110mm / □ 42-86mm

Electronics

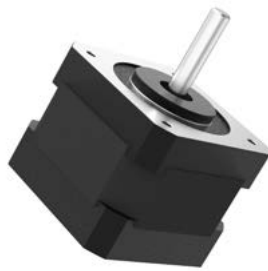
Our technologies



- _ Medium voltage 220VAC
- _ Low voltage 24-48VDC

Servomotors

□ 25-130mm



- _ Hybrid
- _ Flat
- _ Hollow shaft
- _ with encoder

Stepper Motors

Nema 6-42 Ø 14-110mm



- _ External
- _ Captive
- _ Non-Captive

Linear Actuators

Nema 8-23



- _ Planetary
- _ Spur
- _ Worm & Wheel

Gearboxes

Ø 8-90mm

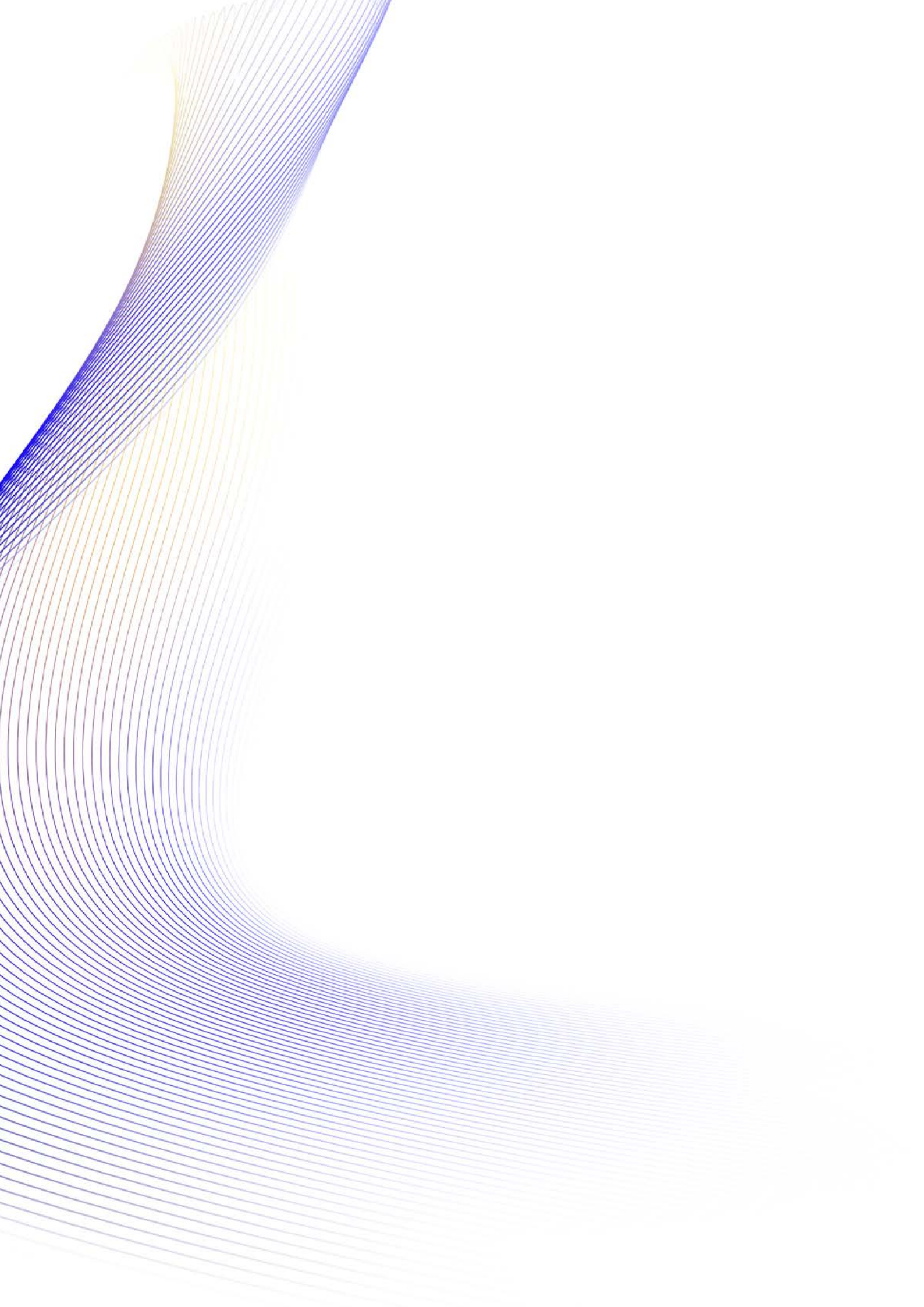


- _ Standard variations
- _ Modular assembly
- _ Full custom

Customizations

Gearboxes

Custom



Our experts are here
to help you find the
most suitable solution.
Contact us.

Plenty of products, right?

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