

STÖBER Antriebstechnik GmbH & Co. KG

Product Release Brief Allen Bradley

Product Management Motors SPM

2021



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Purpose

- This packet is intended for the STOBER sales team
- It is a guide how to handle STOBER servomotors and Rockwell Automation / Allen Bradley drive controller
- This solution is ready to be sold and supported
- This document contains all required information for the product launch
- This document does not receive any updates during the product life cycle.



Rockwell Automation

Rockwell automation is one the biggest companies dealing with automation solutions on a global scale. The Rockwell automation group incorporates several brands.

Strategic significant are three brands:



From a product point of view STOBER is dealing with Allen Bradley brand.



Allen Bradley



Products

- Circuit & Load Protection
- Computers & Operator Interfaces
- Condition Monitoring
- Connection Devices
- Drives & Motors
- Energy Monitoring
- I/O Modules
- Lightning Control
- Motion Control
- Motor Control
- Networks Security & Infrastructure
- Power Supplies
- Programmable Controllers
- Push Buttons & Signaling Devices
- Relays & Timers
- Safety Products
- Sensors & Switches
- Signal Interfaces
- AB Branded Software

STOBER related products are found in

Motion Control



- Actuators
- Drives, Servo
- Encoders
- Motion Software
- Motors, Servo



Allen Bradley supported products

STOBER supports solution for:



Kinetix 5500



Kinetix 5700



Kinetix 6500

The drive controllers Kinetix 5700 / 6500 with the execution V23 or higher are supporting EnDat 2.2.



Rockwell Automation Global Approach

Globally STOBER is an Encompass Product Partner of Rockwell Automation. The Encompass Program makes it easy for customers to use complementary Rockwell approved products.



This means that STOBER is promoted by Rockwell automation. Parts of the STOBER product range can be found on the website of Rockwell and inside the sizing tool Motion Analyzer <u>https://motionanalyzer.rockwellautomation.com/</u>.

In addition, certain STOBER servo motor families are part of Rockwell Automation Enabled Program. This program is for type of products that Rockwell does not manufacture but can help their customers solve tough application problems. These products are easily commissioned with the appropriate drive controllers of Allen Bradley.

For these services we have to pay a royalty to Rockwell. The license model is a royalty-per-unit for motor only. There is no surcharge on gearbox, rack, pinion etc..



STOBER Solutions

Motor

STOBER US and Rockwell Automation defined the complementary products out of our motor range. The products are

- EZHD
- EZM
- EZS
- Geared motors EZ

Only these products are part of the agreement between STOBER and Rockwell Automation!

All other motors / motor families are not supported!

Encoder

Encoders with Hiperface DSL interface

Encoder model	Code	Meassuring method	Recordable Revolutions	Resolution	Position values per revolution
EDM35	H6	Optical	4096	20 bit	1.048.576

Encoders with EnDat 2.2 interface

Encoder model	Code	Meassuring method	Recordable Revolutions	Resolution	Position values per revolution
ECI 119 G2	C9	Induktive		19 bit	524.288
EQN1135	Q5	Optical	4096	23 bit	8.388.608



Temperature Sensor

Allen Bradley's drive controllers do not currently process information provided by temperature sensors built into the motor. Nevertheless, the motors are designed with temperature sensors. There is no option to deselect them. Depending on the drive controller, different temperature sensors are offered as shown in the table "Possible combination with Drive Controller".

Allen Bradley is working on evaluating temperature sensors in the drive controller. So far, however, only a mathematical temperature model has been used. This works very precisely and reliably under the conditions of continuous operation we tested.

Drive controller		Kinetix 5500	Kinetix 5700	Kinetix 5700	Kinetix 6500
Drive controller code		HB	GD	HA	GC
Connection Plan ID		443169	442449	443096	442448
Encoder	Encoder code				
EDM35	H6	Geared motor EZ, EZS	Geared motor EZ, EZS		
ECI 119 G2	С9			EZHD, EZM	EZHD, EZM
EQN1135	Q5			Geared motor EZ, EZS	Geared motor EZ, EZS
Temperatur- Sensor		PT1000	PT1000	PT1000	РТС

Possible combination with Drive Controller

The drive controller Kinetix 5700 / 6500 with the execution V23 or higher is supporting EnDat 2.2. Previous versions do not support EnDat 2.2.

Motor Connection Plan

The motor connection diagram can be found in the download area of the STOBER website as well as in the download area of the STOBER intranet.



Cables Allen Bradley

STOBER does not supply cables. Please use the original cables of Allen Bradley. The following link will lead you to the cable configurator.

https://www.rockwellautomation.com/en-us/products/hardware/allenbradley/motion-control/servo-motors/kinetix-cables.html

Allen-Bradley

Kinetix Cables with SpeedTEC DIN Connectors



In addition to this document, you will receive an Excel file with the assignment of our motors to the corresponding cables.



Pricing

The encoder prices are shown in the price list and are kept up to date there.

A surcharge has to be considered as a royalty to Rockwell automation. The regular discounts can be applied to this surcharge.

A surcharge of BVP 66 EUR is charged by STOBER for contributing the 3rd party business. The regular discounts can be applied to this surcharge.

Royalty

For each motor that is enabled for operation on an Allen Bradley drive controller (code in the encoder's electrical nameplate), a fee must be paid to Rockwell.

Motorsize	Gross Price BVP [EUR]
Geared motors EZ3	425
Geared motors EZ4	530
EZHD4	530
Geared motors EZ5	640
EZHD5, EZM5, EZS5	640
Geared motor EZ7	640
EZHD7, EZM7, EZS7	640
Geared motors EZ8	640

Logistic

Geared motors EZ, EZHD, EZM, EZS are available from STOBER Pforzheim for the German market and the EMEA and APAC sales regions.

Geared motors EZ, EZHD, EZM, EZS are available from STOBER Maysville for the American market.



Marketing

Part of the 3rd party approach. Information is published in the catalog and on the STOBER website online configurator. Additional sales activities through the Rockwell Automation channel are coordinated by STOBER Maysville.

Collaboration based on projects

In addition to the agreements reached with Rockwell on the drives listed in the previous chapters, individual agreements on a project basis are also possible under certain conditions. This will only come into discussion if STOBER is the only solution that could solve a Rockwell customer's problem. An example, a STÖBER solo motor based on EZ is a better solution than an Allen Bradley solo motor.

For this purpose, two decisions must be taken. STOBER must check if and which solution could be offered. Rockwell has to check whether this solution is in their business interests.

The STOBER process is r.o.a.d. and should be the first action.

The Rockwell process basically looks like this. For the approval process to take place, the local Rockwell Account Manager must work with their countries Regional Commercial Engineer (known as a System Architect in North America). This person must determine if STOBER could be allowed to service this customer with a STOBER solution. The solution resulting from these processes is then valid for the specified project (product) at a customer. No general purpose of use can be derived from this single agreement. This is an individual process that has to be supported by the Regional Commercial Engineer of Rockwell.



Studio 5000 | cmf file

- During motor production, an authorization code is stored in the electrical nameplate of the installed encoder.
- The Studio 5000 contains a cmf file. The information from the encoder (motor) and the cmf file is used to check whether operation is enabled on an Allen Bradley drive controller.
- For each motor type there is a cmf file. This file contains the information which encoder manufacturers, encoder types and drive controllers are enabled. The cmf files are purchased from Rockwell Allen Bradley. Allen Bradley rolls out the cmf files into the respective software releases and software updates. This procedure does not ensure that the software available in the field at the customer's site contains the required cmf files. If this is the case, the corresponding cmf-file can be requested from STOBER. This must then be copied into Studio 5000.
- Any modification to a cmf file must be purchased from Rockwell Allen Bradley. The activation of any new encoder manufacturer or drive controller type is therefore always the same as a new cmf file, which must be purchased from Rockwell Allen Bradley. These costs are paid once per cmf file. The cmf file can then be used in any Studio 5000 worldwide at no additional cost.



1. For the commissioning of STOBER motors on Allen-Bradley drive controllers there is a short description with the ID 443244 avilable. This document can be found in the download area Intranet and Internet.



Documents

- Catalog ID 442437 is supplemented with the solution for Allen-Bradley drive controllers. The next release of this updated catalog version will be with the introduction of PE gearboxes Generation 2, which is planned for Q2 2021.
- Commissioning of STOBER motors on Allen-Bradley drive controllers ID443244
- Parameter für Motoren an Allen Bradley
- Assignment of STOBER motors to Allen Bradley cables "ROCKWELL Cable Sizing for STOBER motors", Excel document with filter functions

Titel	ID	Datum	Größe/Typ
Anschlussplan EZ_GC an AB Kinetix 6200/6500 Standard DIN	442448_en	Apr 20	150 kB [PDF]
Anschlussplan EZ_GD an AB Kinetix 5700 (DSL)	442449_en	Sep 20	161 kB [PDF]
Anschlussplan EZ_HA an AB Kinetix 5700 EnDat2.2	443096_en	Mai 20	152 kB [PDF]
Anschlussplan EZ_HB an AB Kinetix 5500 DSL	443169_en	Sep 20	161 kB [PDF]

• Motor Connection Plan