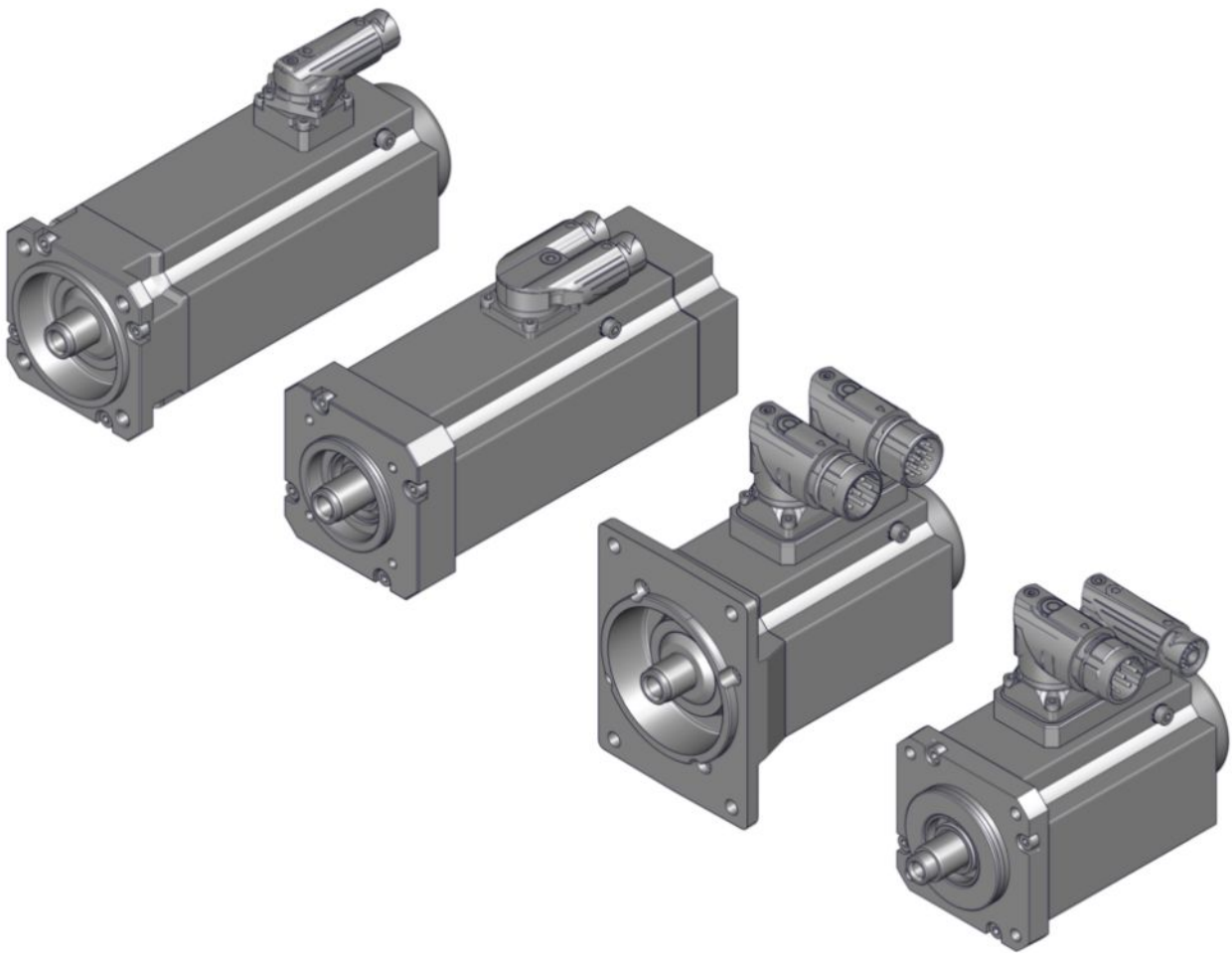


Replacement parts list

EZ3 synchronous servo motors



[stober.com](https://www.stober.com)

en-US

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1 User information

This replacement parts list is intended to make ordering replacement parts easier; however, it cannot replace repair instructions.

All standard versions of the motor are presented in this document. Using the nameplate, the type designation and your order documents, you can find the chapters that correspond to your product. Specify the type designation and serial number of the motor as well as the corresponding item number from this replacement parts list when requesting replacement parts.

Have the motor repaired only by STÖBER service or STÖBER service partners. Only use replacement parts delivered by STÖBER. Be aware that improper repair work may cause material damage and may void the manufacturer's warranty.

Since extensive technical equipment and expertise is required for replacing encoders, encoders can be replaced only by STÖBER service. Also note that not all modules shown can be ordered individually.

1.1 Type designation of EZ motors

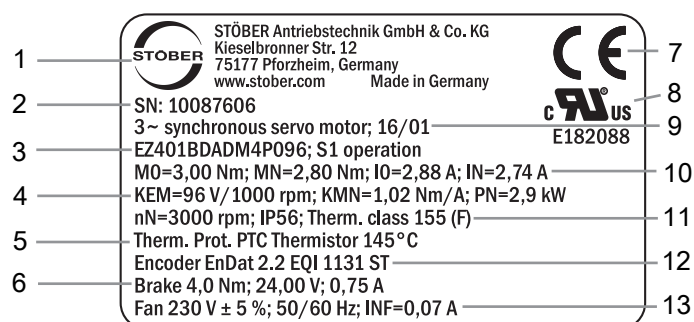
EZ	4	0	1	U	D	AD	M4	O	096
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Explanation

Code	Designation	Design
EZ	Type	Synchronous servo motor
4	Size	4 (example)
0	Generation	0
1	Length	1 (example)
U	Cooling ¹	Convection cooling
B		Forced ventilation
D	Design	Dynamic
AD	Drive controller	SD6 (example)
M4	Encoder	EQI 1131 FMA EnDat 2.2 (example)
O	Brake	Without holding brake
P		Permanent magnet holding brake
096	Electromagnetic constant (EMC) K _{EM}	96 V/1000 rpm (example)

1.2 Nameplate

An example nameplate of an EZ805 synchronous servo motor is explained in the figure below.



Line	Value	Description
1	STÖBER Antriebstechnik GmbH + Co. KG	Logo and address of the manufacturer
2	Ser. No. 10087606	Serial number of the motor
3	EZ401BDADM4P096 S1 operation	Type designation Operating mode
4	KEM=96 V/1000 rpm KMN=1.02 Nm/A PN=2.9 kW	Voltage constant Torque constant Nominal power

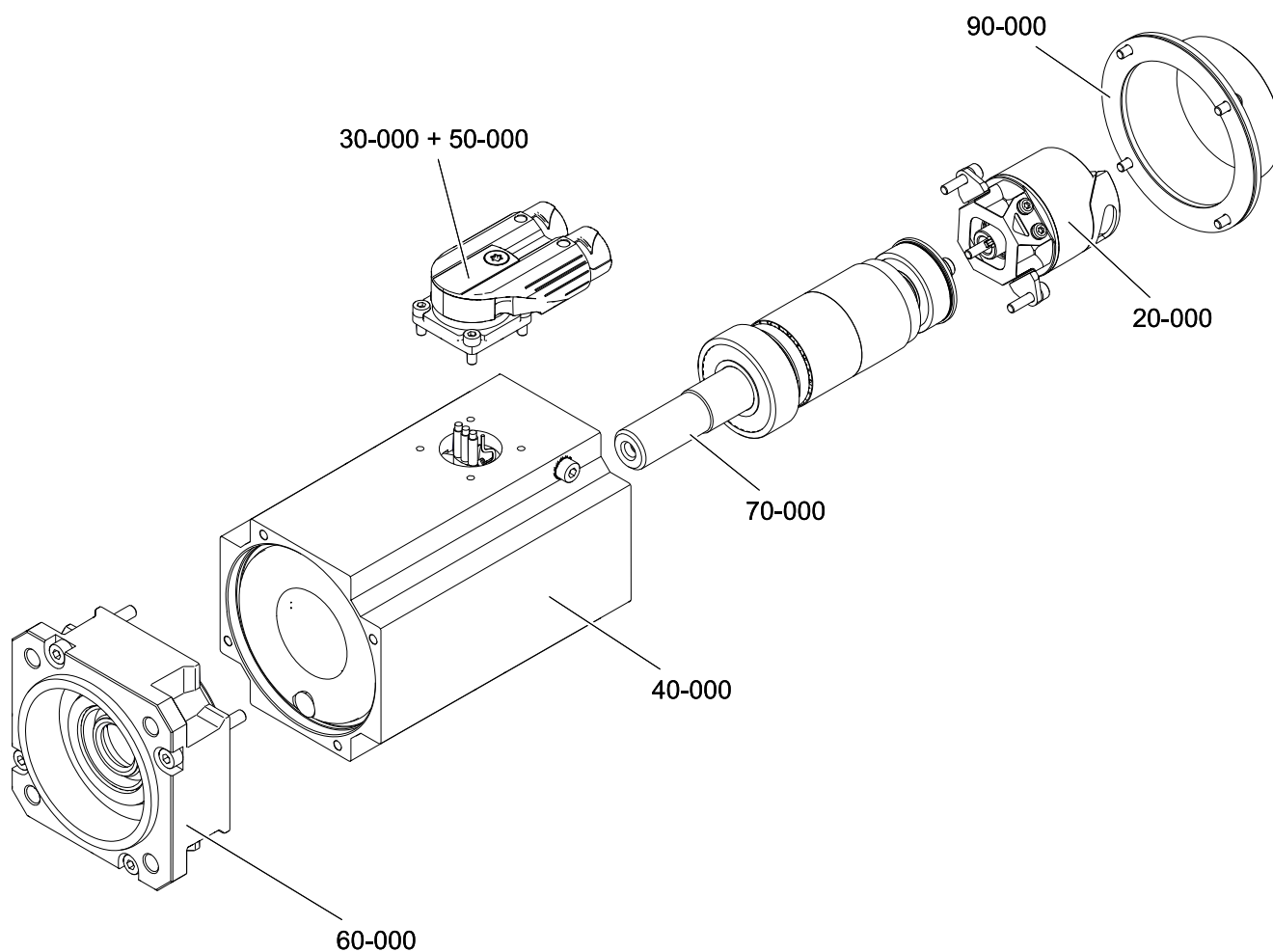
¹ EZ3 motors only available with convection cooling

Line	Value	Description
5	Therm. prot. of PTC thermistor 145 °C	Type of temperature sensor
6	Brake 4.0 Nm 24.00 V 0.75 A	Holding brake (optional) Static braking torque at 100 °C Nominal voltage (DC) of the holding brake Nominal current of the holding brake at 20 °C
7	CE	CE marking
8	cURus E182088	cURus test symbol, registered under UL number E182088 (optional)
9	3~ synchronous servo motor 16/01	Motor type: Three-phase synchronous servo motor Date of manufacture (year/calendar week)
10	M0=3.00 Nm MN=2.80 Nm I0=2.88 A IN=2.74 A	Stall torque Nominal torque Stall current Nominal current
11	nN=3000 rpm IP56 Therm. class 155 (F)	Nominal speed Protection class Thermal class
12	EnDat 2.2 EQI 1131 ST encoder	Encoder type
13	Fan 230 V ± 5%; 50/60 Hz INF = 0.07 A	Forced ventilation unit (optional) Nominal voltage of the forced ventilation unit Nominal current of the forced ventilation unit

1.3 Additional documentation

Additional documentation related to the product can be found at <http://www.stoeber.de/en/download>

2 EZ3 motors without brake, with optical encoder

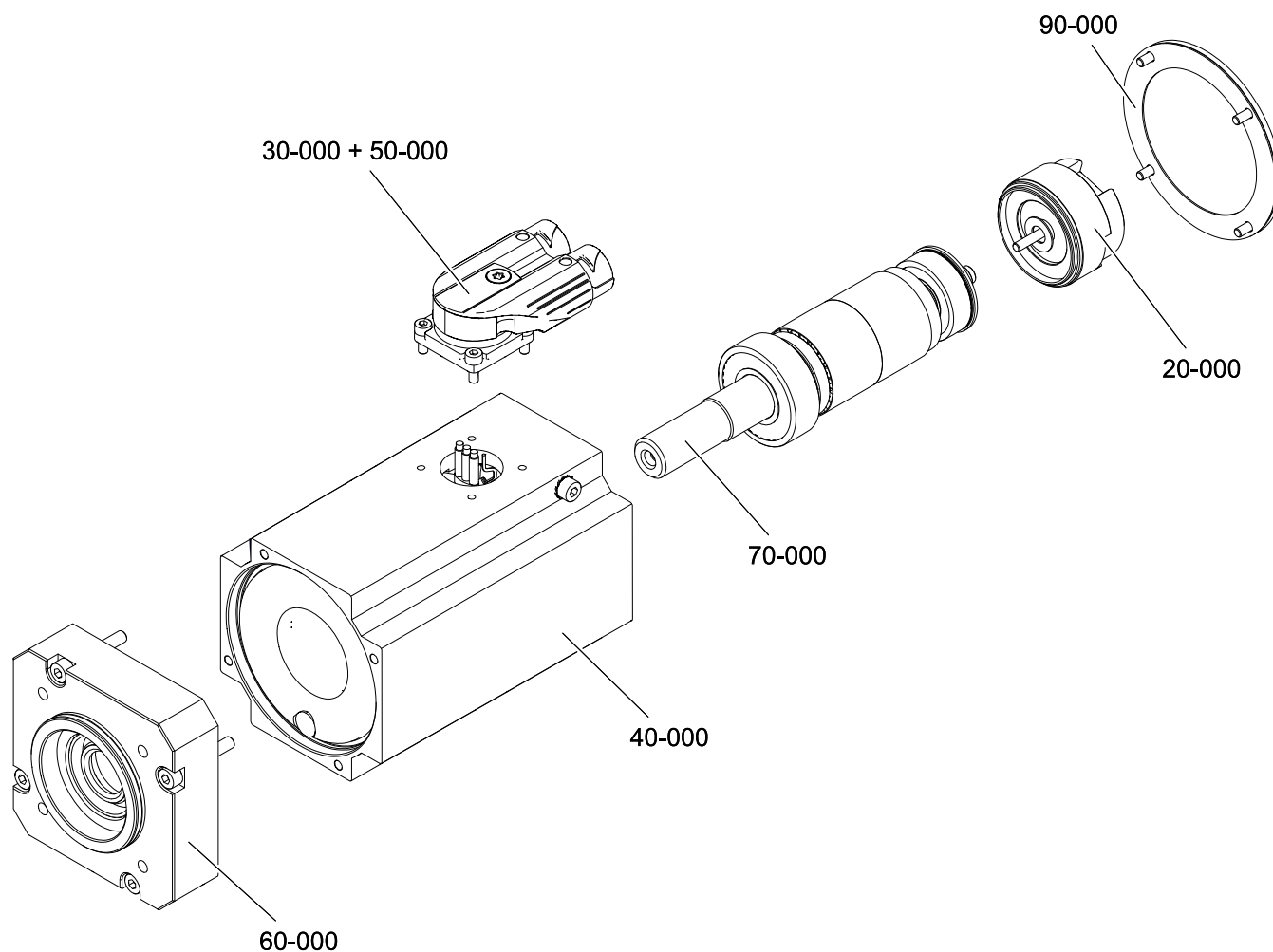


Item No.	Designation	Item No.	Designation
20-000	Encoder (complete)	30-000	Encoder connection (complete)
40-000	Stator (complete)	50-000	Power connection (complete)
60-000	Output flange (complete)	70-000	Rotor shaft (complete)
90-000	B-side cover (complete)		

Other designs of output flange 60-000 are shown in the chapter [Overview of output flange for EZ3 motors](#) [► 8].

Other designs of encoder connection 30-000 and power connection 50-000 are shown in the chapter [Overview of plug connector for EZ3 motors](#) [► 9].

3 EZ3 motors without brake, with inductive encoder or resolver

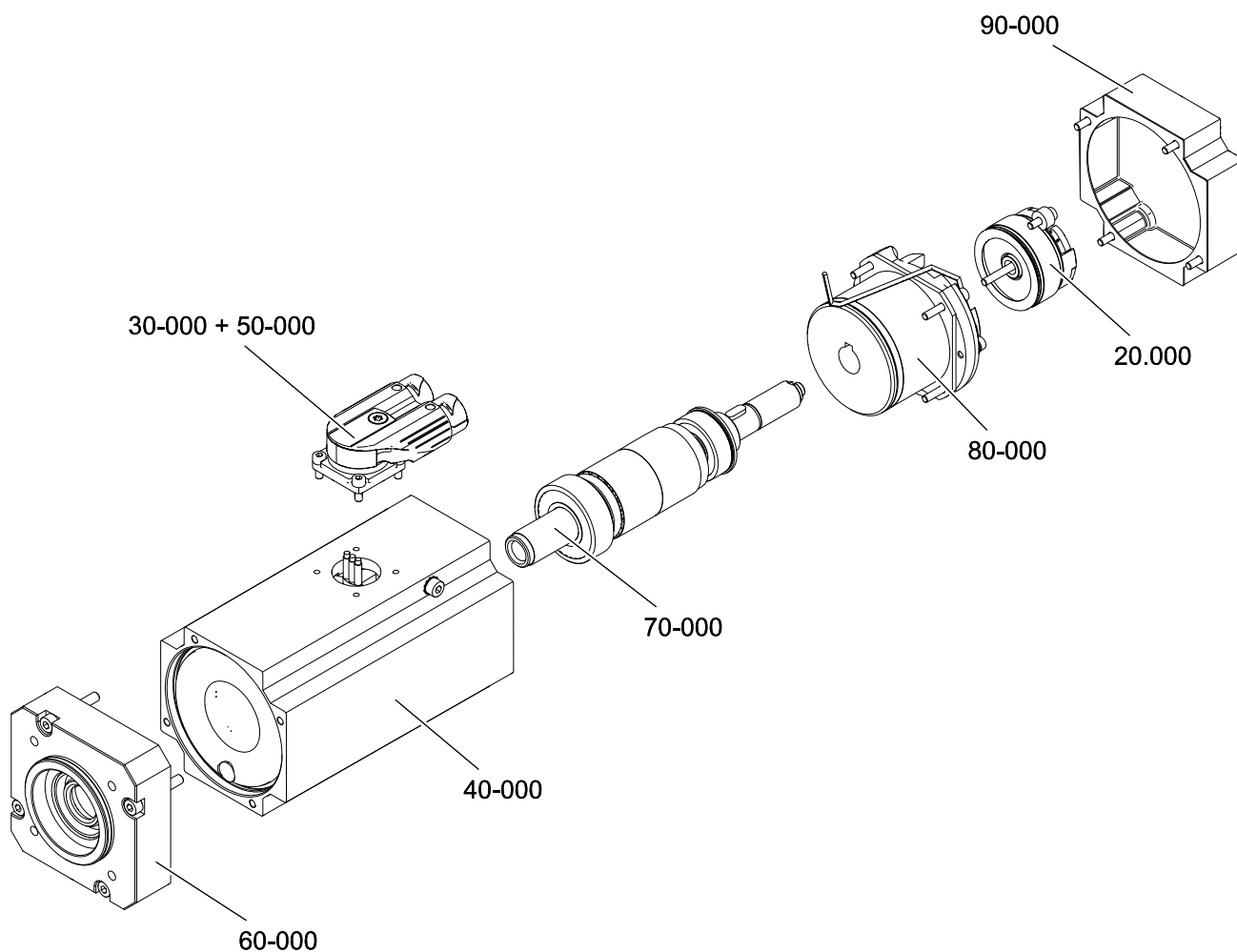


Item No.	Designation	Item No.	Designation
20-000	Encoder (complete)	30-000	Encoder connection (complete)
40-000	Stator (complete)	50-000	Power connection (complete)
60-000	Output flange (complete)	70-000	Rotor shaft (complete)
90-000	B-side cover (complete)		

Other designs of output flange 60-000 are shown in the chapter [Overview of output flange for EZ3 motors](#) [► 8].

Other designs of encoder connection 30-000 and power connection 50-000 are shown in the chapter [Overview of plug connector for EZ3 motors](#) [► 9].

4 EZ3 motors with brake

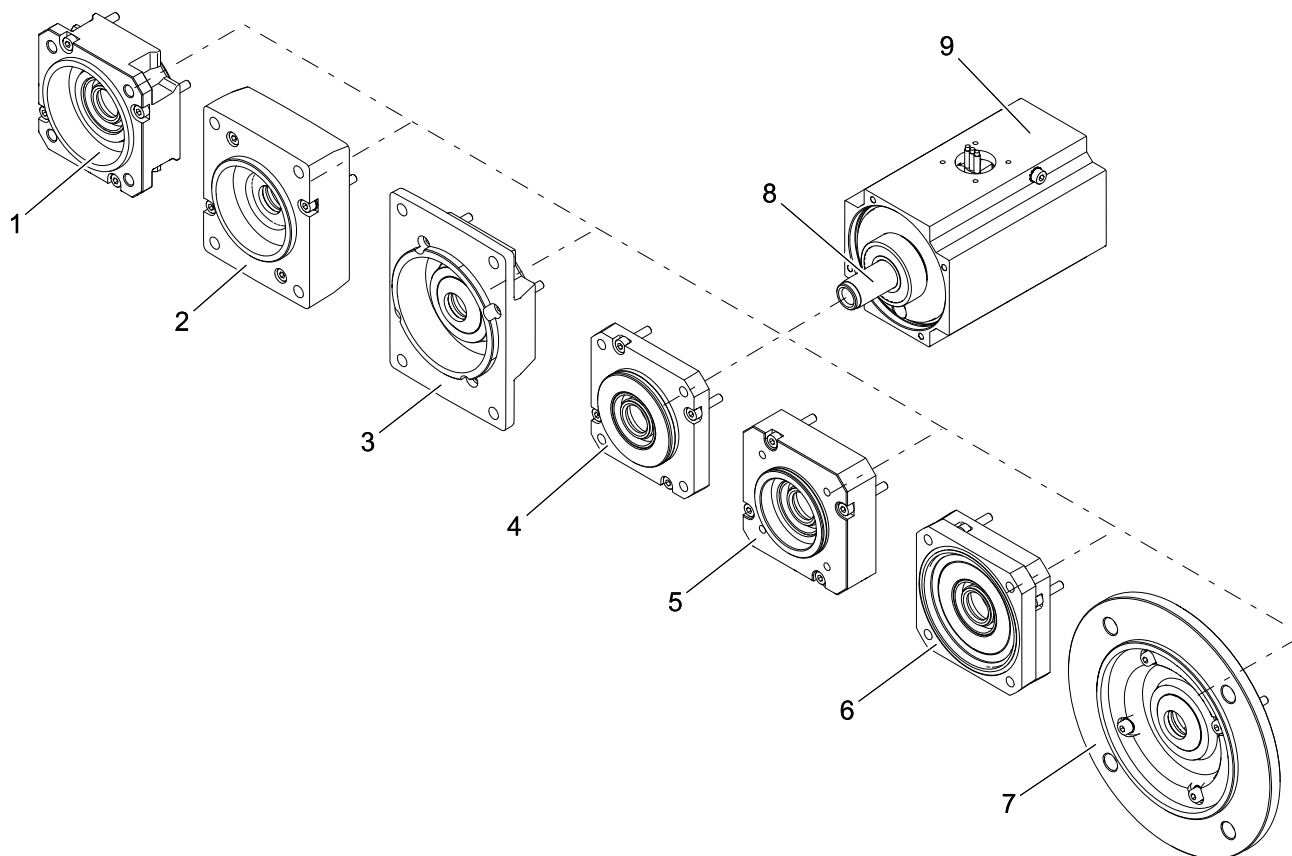


Item No.	Designation	Item No.	Designation
20-000	Encoder (complete)	30-000	Encoder connection (complete)
40-000	Stator (complete)	50-000	Power connection (complete)
60-000	Output flange (complete)	70-000	Rotor shaft (complete)
80-000	Holding brake (complete)	90-000	B-side cover (complete)

Other designs of output flange 60-000 are shown in the chapter [Overview of output flange for EZ3 motors](#) [► 8].

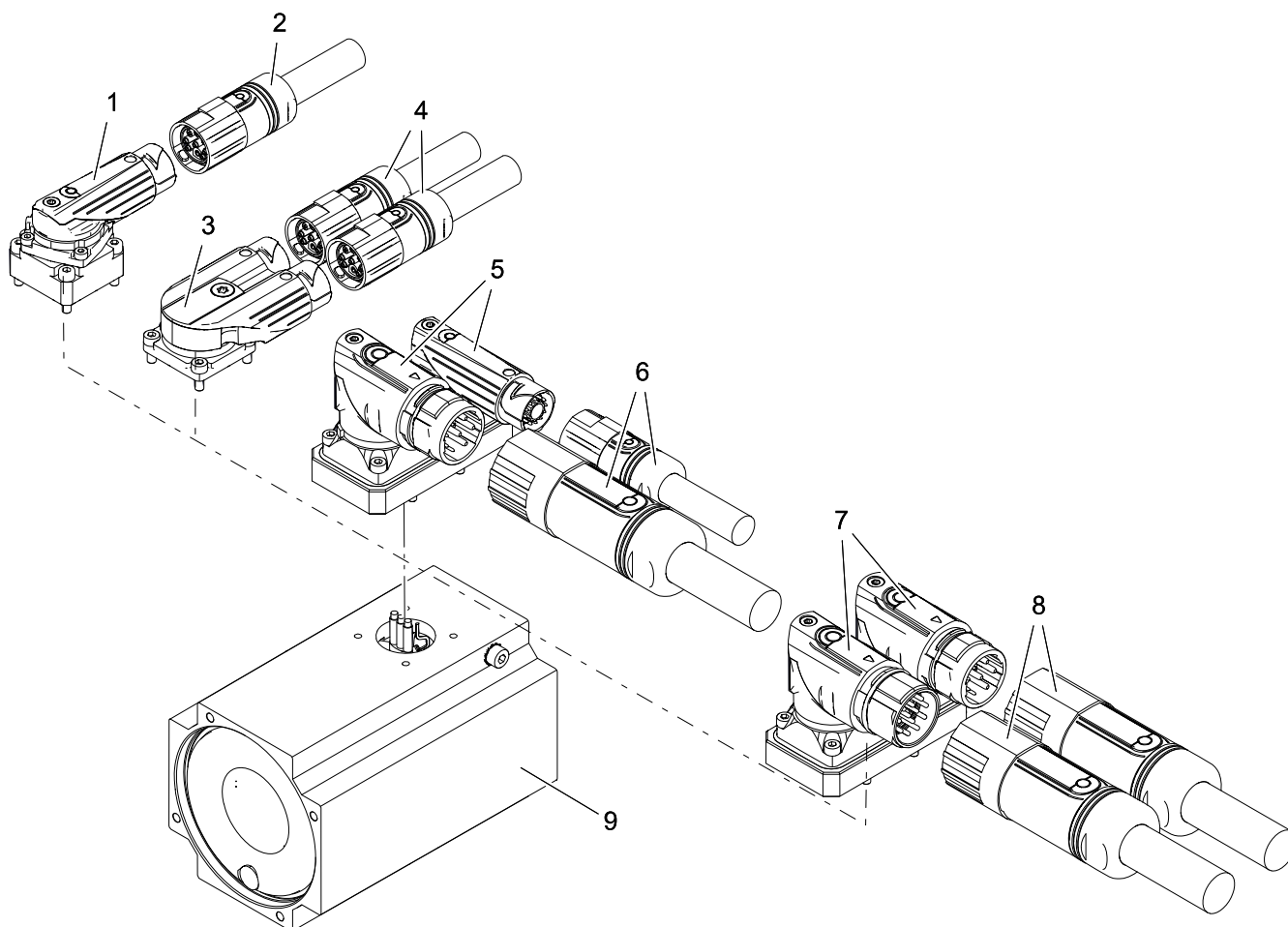
Other designs of encoder connection 30-000 and power connection 50-000 are shown in the chapter [Overview of plug connector for EZ3 motors](#) [► 9].

5 Overview of output flange for EZ3 motors



Item No.	Designation	Item No.	Designation
1	Output flange in acc. with IEC standard	2	Output flange for KL1 gear unit
3	Output flange for KL2 gear unit	4	Output flange for PH gear unit
5	Output flange for P2 gear unit	6	Output flange for P3/P4/PA3/PA4 gear unit
7	Output flange for C/F/K/S gear unit	8	Rotor shaft
9	Stator		

6 Overview of plug connector for EZ3 motors



Item No.	Designation	Item No.	Designation
1	Plug connector for One Cable Solution (OCS)	2	Mating connector for One Cable Solution (OCS)
3	Plug connector for connection to STOBBER drive controllers	4	Mating connector for connection to STOBBER drive controllers
5	Plug connector for connection to B&R ACOPOSmulti drive controllers with EnDat 2.2 interface	6	Mating connector for connection to B&R ACOPOSmulti drive controllers with EnDat 2.2 interface
7	Plug connector for connection to other drive controllers from third-party manufacturers	8	Mating connector for connection to other drive controllers from third-party manufacturers
9	Stator		

The connection cables shown are not included in the scope of delivery of the mating connector.



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Errors and changes excepted.

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STÖBER ANTRIEBSTECHNIK GmbH & Co. KG
Kieselbronner Str. 12
75177 Pforzheim
Germany
Tel. +49 7231 582-0
mail@stoeber.de
www.stober.com

24 h Service Hotline +49 7231 582-3000