

1 Safety information

1.1 General safety instructions

WARNING!

When connecting and operating the motors considerable hazards to the life and health of persons may occur!

- ▶ When connecting the motor observe the following safety instructions, the operating instructions for the motor and applicable national, local and system-specific regulations.
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1.2 Safety when making the electrical connection

WARNING!

Electrical shock by touching live unpainted parts of the motor!

- ▶ The electrical connection of the motor may only be carried out by a qualified electrician.
 - ▶ Before connecting the motor, switch the relevant system or machine to zero potential with the main switch and protect the main switch against being turned on again!
 - ▶ Close the entire connector housing before turning on the motor.
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1.3 Avoid connection errors

NOTICE

Electrical connection errors can cause damage to the motor and its components.

- ▶ Make sure that the cables and connectors to be connected meet this motor connection plan.
 - ▶ Carefully note the information on the motor name plate and this motor connection plan. For questions please contact STÖBER Service department.
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1.4 Risks of noncoordinated third-party components

NOTICE

If connection cables or a drive controller that are not designed for the motor are used to make the electrical connection for the motor, this may result in damage to the motor or that compliance with the legal requirements for EMC is no longer provided and claims under the warranty will be null and void.

- ▶ You should use connection cables and a drive controller specifically designed for your motor from the STÖBER product range.
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2 Power connection

Parameters	Connection diagram	Configuration
$n_N = 3000 \text{ min}^{-1}$ $K_{EM} = 118/121 \text{ V} / 1000 \text{ min}^{-1}$ $U_{ZK} = 620 \text{ V}$		Δ
$n_N = 1800 \text{ min}^{-1}$ $K_{EM} = 118/121 \text{ V} / 1000 \text{ min}^{-1}$ $U_{ZK} = 310 \text{ V}$		Δ
$n_N = 1800 \text{ min}^{-1}$ $K_{EM} = 201/206 \text{ V} / 1000 \text{ min}^{-1}$ $U_{ZK} = 620 \text{ V}$		Y

n_N = Nominal speed of the motor

K_{EM} = Voltage constant of the motor

U_{ZK} = DC link voltage of the drive controller

3 Temperature sensor

NOTICE

The thermal winding protection can be damaged by electrical connection errors!

- Carefully note the type of the temperature sensor indicated on the motor name plate.

