



STÖBER

UL-compliant use Supplement

POSIDYN® SDS 5000

POSIDRIVE® MDS 5000

POSIDRIVE® FDS 5000



V 5.6-K or later



05/2015

en

UL-compliant use

Additional information for use under UL conditions (UL – Underwriters Laboratories).

Sections cited here refer to the projecting manuals:

- POSIDYN® SDS 5000, ID 442277
- POSIDRIVE® MDS 5000, ID 442273
- POSIDRIVE® FDS 5000, ID 442269

They can be found on the accompanying CD, version V 5.6-K.

Surrounding temperature and pollution degree

The maximum surrounding temperature for UL-compliant operation is 45 °C.

For use in an environment with pollution degree, please note the specification in the general data (3.1.1 Transportation, storage and operating environment).

Power grid type

All device types that are supplied with 480 V are designed exclusively for operation on Wye sources with 480/277 V.

Power supply and motor overload protection

Please note also the specifications in the electrical data for the inverter (3.2 Electrical data of the inverters).

Line fuse

Note the specifications for line fuse for UL-compliant operation (5.3.1 Line fuse).

Motor protection

All models of STÖBER 5th generation inverters have a certified i²t model, a calculation model for thermal monitoring of the motor. This fulfills the requirements for semiconductor motor overload protection in accordance with the change to UL 508C dated May 2013. To activate the protective function and set it up, make the following parameter settings – which differ from the default values: U10 = 2:Warning and U11 = 1.00 s. This model can be used alternatively or in addition to temperature-monitored motor protection.



Information

STÖBER ANTRIEBSTECHNIK GmbH & Co. KG recommends using PTC thermistors as thermal motor protection.

Motor temperature sensor

All models of the 5th generation of STÖBER inverters starting with HW 200 have connections for PTC thermistors (NAT 145 °C) or KTY temperature sensors (KT84-130). To ensure proper connection, please note terminal description X2 (5.8 Motor temperature sensor).

Braking resistor

If the inverters will be fitted with an externally mounted braking resistor, separate overtemperature protection must be made available.

24 V power supply

Low-voltage circuits shall be supplied by an isolating source such that the maximum open circuit voltage available to the circuit is not more than 28.8 V. Note in addition terminal description X11 (5.4 24 V power supply).

Lines

Use only copper conductors for an surrounding temperature of 60/75 °C.

Fuses

Use a 1 A fuse (time lag) upstream from relay 1. The fuse must be approved in accordance with UL 248. Note also the sample connection for terminal description X1 (5.5 Enable and relay 1).

Branch circuit protection

An integral solid state short circuit protection does not provide branch circuit protection. If you would like to branch the output of the inverter, branch circuit protection must be ensured in conformity with the instructions of STÖBER, the National Electrical Code and all additional applicable local regulations or equivalent specifications.

UL test

During the UL acceptance process of STÖBER ANTRIEBSTECHNIK GmbH & Co. KG, only risks for electrical shock and fire hazard were investigated. Aspects of functional safety were not assessed. These aspects are assessed for STÖBER by the TÜV SÜD certification authority, for example.



STÖBER



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Technische Änderungen vorbehalten
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