

## Kollmorgen s724 high performance motor drive

### Adapted to meet requirements for use in Wind Turbine

#### Facilitates compact blade pitch cabinets

- Onboard interfaces for CANopen, EtherCat, RS232 and 24V pulse direction
- Position controller onboard
- 3 slots for expansion boards
- Integrated power supply and brake resistor
- Operate directly from grounded 230 to 480 VAC +/- 10%, 3-phase, 50 to 60 hz lines

#### Cabinet design enables airflow along heat sink for cooling

- Supplemented by click on fan, with 16 years lifetime
- Fan designed to run only when needed.
- Below 10 °C ambient temperature the fan will not run.
- At cabinet temperature of 10 °C, and motor drive delivery of 18 Amps for 7 seconds every minute, the fan will not run.
- At cabinet temperature of 50 °C, the motor drive can deliver maximum current for more than two minutes before motor drive issues overheat warning signal.

#### Wide range of configuration and programming features

- Support AC servo, AC induction and DC motors
- Multi-feedback feature compatible with all common feedback systems
- IEC 61131 Macro Programming language inside makes motion flexible
- Memory card for parameter & firmware updates

#### Adapted for Wind Cluster to operate in harsh climate conditions in Wind Turbine

- Coated print circuit boards ensures trouble free operation when temperature fluctuates around 0 °C while moisture level is high
- Components fixed with glue ensures lasting capability to operate in vibrating cabinet
- Firmware supplies temperature warnings to application software, and will under no circumstances force the motor drive to halt.
- Tests have proved drive ability to startup in -30 °C



## Sample technical data

Rated output current at 3 x 400 VAC	24 Amps
Peak output current for 5 seconds	48/48 Amps
Voltage rise speed at 3 x 400 VAC	5.7 kV/micro sec
Switching frequency at output stage	8 kHz
Ambient temperature in operation	0 °C - +40 °C under rated conditions +40 °C - +55 °C with power derating of 2.5% per °C
Humidity in operation	Relative humidity 85%, no condensation
Site altitude	From 1000 to 2500 meters with power derating of 1.5% per 100 meters
Weight:	5.5 kg
Height/Width/depth, with connectors	382/100/285 mm

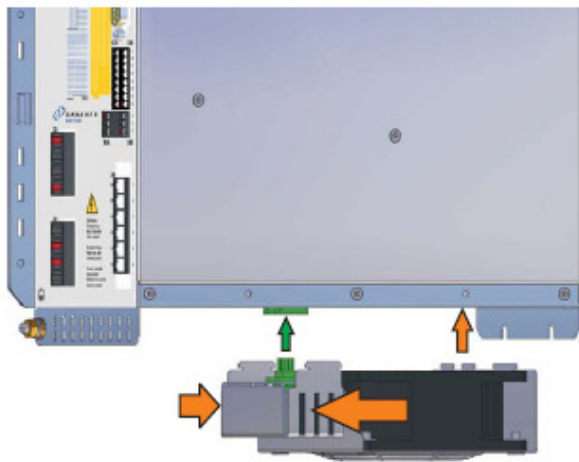


Figure 1: Mounting of fan