Bonfiglioli
Wind

Solutions for wind energy

Agile Inverter Series.
Active Cube Inverter Series.

Agile. Compactness, user friendliness and reliability to keep your wind turbine drive always under control.

The advanced series of standard sensorless inverters Agile from Bonfiglioli are well suited for applications where easy start up, space saving and downtime prevention are primary needs, as for example Yaw Drives in wind turbines.

Active Cube.
Versatility, promptness, accuracy.

A full series of solution & servo drives, compact and flexible, is suitable to be used in wind turbine's drives where outstanding performance in terms of accuracy and response time are requested, as for example Pitch Drives.

Type	Power kW
AGL402 - 09	1.1
AGL402 - 11	1.5
AGL402 - 13	2.2
AGL402 - 15	3.0
AGL402 - 18	4.0
AGL402 - 19	5.5
AGL402 - 21	7.5
AGL402 - 22	9.2
AGL402 - 23	11

Other sizes available.

Type	Power kW
ACU401 - 21	7.5
ACU401 - 22	9.2
ACU401 - 23	11
ACU401 - 25	15
ACU401 - 27	18.5
ACU401 - 29	22
ACU401 - 31	30
ACU401 - 33	37

Other sizes available.

Bonfiglioli
Forever Forward

Agile Inverter Series / Active Cube Inverter Series.

Bonfiglioli Vectron

Yaw Drives Power Range
1.1kW up to 11kW / 3-Phase 320V...528V
45Hz...66 Hz

Type of Control
Innovative control dedicated to open loop drives:
Sensor-less vector speed and torque control for induction motor
Sensor-less vector speed and torque control for brushless motor
V/f scalar sensor-less control

Type of Motor
Asynchronous AC induction motor
Synchronous AC permanent magnets motor without feedback Group drive possible

Main Standard Features
DC link connection
Integrated braking chopper
Short circuit / earth fault protected
Plug-in and programmable control terminals
Integrated safety architecture
Integrated RS485 Modbus / CANopen / Systembus interfaces
MMC memory cards for easy and fast start up parameter copy
6 digital inputs, 2 configurable A/D multi-function inputs
1 configurable I/O port, 1 digital output,
1 configurable A/D/pulse multi-function output, 1 alarm relay, +24VDC output, +10VDC output, +24VDC input

Optional Features
Fanless version available for smaller ratings
“Long life” available on request
Wide operating temperature range
(Operation -30 to +50 °C)
Coated boards against harsh ambient conditions
Expansion of inputs / outputs

Optional Communication Modules
Profibus-DP, CANopen

Main Software Features
Four data sets
Static and dynamic energy saving functions
Application mask ready to use
Maintenance integrated assistant
Drive and motor status backup
Self diagnosis
Integrated PLC functions with graphical editor
Integrated scope function

Pitch Drives Power Range
7.5 up to 37kW / 3-Phase 320V...528V / 45Hz...66Hz

Type of Control
Open and closed loop selectable control function:
Vector speed, torque and position control for induction motor
Vector speed, torque and position control for brushless motor
V/f scalar sensor-less control

Type of Motor
Asynchronous AC induction motor
Synchronous AC permanent magnets motor

Main Standard Features
Operation supplied by DC link connection
Integrated braking chopper
Short circuit / earth fault protected
Plug-in and programmable control terminals
Motor temperature monitoring
Integrated safety architecture
External 24VDC supply for control board and electronics
6 digital inputs, 1 multi-function input
1 digital output, 1 multifunction output,
1 relay output

Optional Features
Assembly available in Feed-Through or Coldplate versions
Wide operating temperature range
(Operation -30 to +50 °C)
Coated boards against harsh ambient conditions
Expansion of inputs / outputs, additional encoder or resolver input
Management up to 2 feedbacks:
standard HW encoder interface combined with expansion module for feedback from motorss

Optional Communication Modules
RS232, RS485, Profibus-DP, CANopen

Main Software Features
Motion sequence functionality with 32 blocks
Four data sets
Drive and motor status backup
Self diagnosis
Integrated PLC functions
Integrated scope function
Brake logic control directly from the inverter

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