



solution

· Better motor connection

• Single cable with no interruption



# World leading motor control

The Performance Inverter P2 offers the perfect combination of high performance together with ease of use to allow even the most demanding applications to be tackled easily.

- · Designed for fast installation and commissioning, Performance Inverter P2 provides the most cost effective solution for industry.
- All Performance Inverter P2 units provide 150% overload for 60 seconds as standard, 200% overload for 2 seconds, ensuring each drive is suitable for heavy duty applications, whilst the IP55/IP66 enclosed versions ensure the drive is tough enough to survive in industrial environments.
- Extensive I/O and communications interface capabilities ensure the drive can be integrated quickly and efficiently into a wide variety of control systems with the minimum commissioning time, ensuring rapid start-up. The simple parameter structure and carefully selected factory parameter settings ensure that commissioning time is kept to a minimum.















Compliant with international standards.

# **Drive system efficiency**

Wall mount units available up to 160 kW

▶ IP55

With today's ever increasing energy costs, efficiency is a key factor in relation to drive system component selection. In many cases, an efficiency figure can be arrived at by simply multiplying the efficiencies of the various components together to find a combined efficiency figure, however this may not tell the whole story. The efficiency of components such as drives, motors and gearboxes can vary considerably with speed and load, hence simply combining the 'headline' efficiency figures can often be very misleading. In reality, the efficiency curves for the whole system should be overlaid, to provide a true efficiency figure for the system across the desired speed and load

► IP66

Wall mount units available up to 7.5 kW

Modern AC inverters will typically have an electrical efficiency of around 98%, which represents the difference between the electrical output power compared to electrical input power only. A further factor that is often overlooked is the efficiency of the motor control strategy employed by the drive. This can have a significant effect on the overall system efficiency and is often not considered when energy saving calculations are made.

# Advanced motor control

Beijer Electronics provides developed advanced mathematical algorithms and uses the very latest hardware technology to ensure Performance Inverter P2 provides exceptional motor control with a simple interface to help users easily apply the benefits to their applications.



Din-rail units available up to 11 kW

### **Future-proof energy efficiency**

Performance Inverter P2 has been designed and developed to work with both standard induction motors, which typically meet the IE2 efficiency standards currently in place in Europe, and the latest generation of high efficiency PM motors designed to meet the future IE4 requirements. This means that an efficient drive can now be purchased, allowing for a future update of the motor without requiring a change to the installed drive.

Performance Inverter P2 works with all PM motors, controlling them with optimum efficiency for the most efficient PM motor control available.

#### The graphs below clearly demonstrate these factors:

- The overall efficiency of the system varies with speed and load and is not a constant.
- Motor control efficiency significantly affects overall system efficiency.
- The graphs are generated by measuring the electrical power drawn from the mains supply compared to the torque generated at the output shaft. These are based on a system requirement of 2.2kW motor power generated at the output shaft. These are based on a system requirement of 2.2kW motor power.

## **Drive system efficiency**

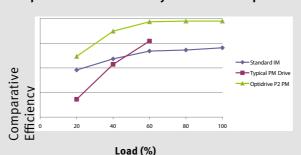
The blue line represents what will be considered a "high efficiency" solution using an efficient IM motor, a modern AC drive and efficient gearbox.

The purple line represents efficiency of a typical PM motor and drive solution. Efficiency is improved at high speeds and loads, however it is actually reduced at very low loads, and output torque cannot be maintained at low speeds.

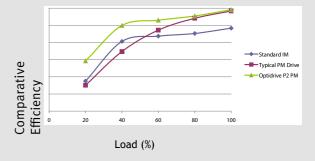
The green line represents the Performance Inverter P2 controlling the same PM motor. Efficiency is improved at all speeds and loads.

In simple terms, Performance Inverter P2 PM motor control produces the maximum amount of output shaft torque per electrical kW consumed across all speed and torque ranges.

#### Improvement in efficiency at 10% rated speed output



#### Improvement in efficiency at 100% rated speed output











66 High performance, accurate motor control for even the most demanding of applications



### Mining & quarrying

- Feed conveyers
- Crushers
- Cranes



# Metals & processing

- Grinding
- Cutting
- Polishing
- Drilling
- Rolling



## Rubber & plastics

- Extruders
- Moulding
- Mixers
- Winding



## Food & beverage

- Conveyers
- Pumps
- Mixers
- Palletizers

### Cranes

#### **Requirements:**

- High starting torque
- Smooth motor operation throughout starting and stopping phases
- Motor holding brake control
- Avoidance of load droop and sag
- Regeneration and braking capability during load lowering

# Performance Inverter P2 provides:

- Dedicated hoist mode operation with motor holding brake control algorithm
- Up to 200% torque from zero speed in vector operation without encoder feedback
- Multiple preset speed or variable speed operation
- Built-in dynamic braking transistor, requires only an external resistor

# Compressors

#### **Requirements:**

- Precise regulation of speed to ensure a consistent end product
- High starting torque demand in many applications
- Maximum efficiency under all conditions
- Safe operation to prevent accidents and injuries

# Performance Inverter P2 provides:

- PM motor control mode to allow open loop operation with permanent magnet motors for maximum efficiency
- Maximum starting torque with standard AC motors
- Better than 0.5% speed holding accuracy in open loop vector operation
- Dedicated safe torque off input complies with EN62061 SIL level 2 for safe operation

# Winding

#### Requirements:

- Precise control of motor torque over a broad speed range
- Accurate control of material tension under all conditions
- Open or closed loop control capability, based on tension feedback or winding diameter
- Web break protection in case of material breakage

# Performance Inverter P2 provides:

- PID closed loop tension control with feedback from a load cell or dancer arm
- Open loop vector control provides optimum control of the output torque level
- Encoder feedback option allows for a very wide speed range, even down to zero speed
- Safe torque off input immediately disables the drive in emergency conditions



66 Modbus RTU and CANopen on board as standard

66 A range of external EMC filters, brake resistors, input chokes and output filters are available, to suit all installation requirements

#### Plug-in option modules



## **Expansion modules**

Extended functionality

### **Encoder feedback**

 Closed loop encoder feedback, compatible with a wide range of incremental encoders

#### Extended I/O

- Additional 3 digital inputs and 1 digital output
- Additional 3 relay output

#### Fieldbus interfaces - Communication options

Profibus DP

s DP Profinet

CC-Link

DeviceNet

**Ethernet IP** 

DeviceNet

Modbus

Ethercat

EtherCAT.

**Modbus TCP** 

et/IP

#### **BFI Tools**



# Powerful PC software

Drive commissioning and parameter backup

- Real-time parameter editing
- Drive network communication
- Parameter upload, download and storage
- Simple PLC function programming
- Parameter upload, download and storage
- · Real time scope function and data logging
- Real time data monitoring

Compatible with Windows XP, Windows Vista & Windows 7, Windows 8, Windows 8.1, Windows 10.

#### Smartstick





# **Rapid commissioning**

- Allows rapid copying of parameters between multiple drives
- Provides Bluetooth wireless interface to a PC running BFI Tools or the BFI-Tools Mobile app on a smartphone
- Onboard NFC (Near Field Communication) for rapid data transfer

### ### ### ### ### ### ### ### ### ##	Order number	Description	Part Number			
EMC-filter, LED, Braketransistor			Tarchamber			
BFI-P22-0076-IR42-SN   15.KW, 7A, Size 2						
### BFI-P222-0105-IFA2-SM  ### BFI-P212-0105-IFA2-TM  ### BFI-P222-0070-IFAX-TM  ### BFI-P222-0070-IFAX-TM  ### DFI-P222-0070-IFAX-TM  ### DFI-P222-0070-IFAX-TM  ### DFI-P222-0070-IFAX-TM  ### DFI-P222-0070-IFAX-TM  ### DFI-P222-0070-IFAX-TM  ### DFI-P22-0070-IFAX-TM  ### DFI-P222-0070-IFAX-TM  ### DFI-P22-0070-IFAX-TM  ### DFI-P222-0070-IFAX-TM  ### DFI-P22-0003-IFAX-TM  ### DF	BFI-P2-22-0043-1F42-SN	0,75kW, 4,3A, Size 2	60101			
BFI-P22-0073-IF4X-TN  BFI-P22-20-017-IF4X-TN  I, SkW, 7A, Size 2  BFI-P22-20-017-IF4X-TN  I, SkW, 7A, Size 2  BFI-P22-20-017-IF4X-TN  I, SkW, 7A, Size 2  BFI-P22-017-IF4X-TN  I, SkW, 7A, Size 2  BFI-P22-017-IF4X-TN  BFI-P22-007-IF4X-TN  I, SkW, 7A, Size 2  BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor  O,75 to 4 kW. Contact Beijer for more information.  BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor  BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor  BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  S,5-75 kW. Contact Beijer for more information.  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, I			60102			
BFI-P22-0007-IASATN   0,75KW, A, Size 2   60113  BFI-P22-1010-114-NTN   2,2kW, 10,5A, Size 2   60113  BFI-P2-1010-11-Phase 200-240 VAC, Output 3-Phase, IP66, EMC-filter, OLED, BFI-P22-0003-IF4/*TN   0,75KW, 4,3A, Size 2   60121  BFI-P22-20-001-IF4/*TN   0,75KW, 4,3A, Size 2   60123  BFI-P22-0003-IF4/*TN   2,2kW, 10,5A, Size 2   60123  BFI-P22-0010-IF4/*TN   2,2kW, 10,5A, Size 2   60123  BFI-P22-0100-IF4/*TN   2,2kW, 10,5A, Size 2   60125  BFI-P21 input 3-phase 200-240 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor						
BFI-P22-0070-1F4X-TN						
BFI-P21put 1-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor, Main switch, Handcontrol  BFI-P222-0003-IF4V-TN  0,75 W, 4,3A, 5/se 2 60123  BFI-P222-0105-IF4V-TN  1,2kW, 10,5A, 5/se 2 60123  BFI-P222-0105-IF4V-TN  1,2kW, 10,5A, 5/se 2 60125  BFI-P21put 3-phase 200-240 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor  0,75 to 4 kW. Contact Beljer for more information.  BFI-P21put 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor  0,75 to 4 kW. Contact Beljer for more information.  BFI-P21put 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor  0,75 to 4 kW. Contact Beljer for more information.  BFI-P21put 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor  0,75 to 4 kW. Contact Beljer for more information.  BFI-P21put 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  5,5-75 kW. Contact Beljer for more information.  BFI-P21put 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, Braketransistor  BFI-P22-40043-3742-5N  1,5kW, 41A, 5ize 2, LED  60200  BFI-P22-40043-3742-5N  1,5kW, 41A, 5ize 2, LED  60201  BFI-P23-40040-3742-5N  1,5kW, 41A, 5ize 2, LED  60201  BFI-P23-40040-3742-5N  1,5kW, 41A, 5ize 3, LED  60203  BFI-P23-40040-3742-5N  1,5kW, 41A, 5ize 3, LED  60206  BFI-P23-40030-3742-7N  1,5kW, 41A, 5ize 3, LED  60207  BFI-P24-6090-3742-7N  1,5kW, 41A, 5ize 3, LED  60209  BFI-P24-6090-3742-7N  1,5kW, 41A, 5ize 3, LED  60209  BFI-P24-6090-3742-7N  1,5kW, 41A, 5ize 3, LED  60209  BFI-P24-6090-3744-7N  1,5kW, 41A, 5ize 3, LED  60209  BFI-P24-6090-3744-7N  1,5kW, 41A, 5ize 3, LED  60209  BFI-P24-6090-3744-7N  1,5kW, 41A, 5ize 3, LED  60209  BFI-P24-6090-3744-7N						
BFI-P21pupt 1-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2-22-0070-IF4Y-IN 1,5KW, 7A, Size 2 60123 BFI-P2-22-0070-IF4Y-IN 1,5KW, 7A, Size 2 60123 BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21pupt 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, Braketransistor 0,751 to 4 kW. Contact Beijer for more information. BFI-P21-00000000000000000000000000000000000						
BFI-P2-2-000-1FAY-TN   0,75kW, 4,3A, Size 2   60123 BFI-P2-2-20-007-1FAY-TN   2,2kW, 10,5A, Size 2   60123 BFI-P2-22-0005-1FAY-TN   2,2kW, 10,5A, Size 2   60123 BFI-P2-10-17-18-18-18-18-18-18-18-18-18-18-18-18-18-						
BFI-P22-2-0105-1FAYTN						
BFI-P22-0105-1FaVTN 2,2kW, 10,3A, Size 2 60125 BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor 0,75 to 45 kW. Contact Beijer for more information. BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor 0,75 to 4 kW. Contact Beijer for more information. BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor, Main switch, Handcontrol 0,75 to 4 kW. Contact Beijer for more information. BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  S-575 kW. Contact Beijer for more information. BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  S-575 kW. Contact Beijer for more information. BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP50, EMC-filter, Braketransistor BFI-P2-24-0002-3F42-SN 0,75kW, 22A, Size 2, LED 60200 BFI-P2-24-0013-7F42-SN 0,75kW, 24A, Size 2, LED 60201 BFI-P2-24-0093-3F42-SN 4kW, 9,5A, Size 2, LED 60201 BFI-P2-34-0140-3F42-SN 5,5kW, 14A, Size 3, LED 60204 BFI-P2-34-0180-3F42-SN 7,5kW, 18A, Size 3, LED 60205 BFI-P2-34-0300-3F42-TN 15kW, 30A, Size 4, OLED 60205 BFI-P2-40-030-3F42-TN 18kW, 39A, Size 4, OLED 60205 BFI-P2-40-030-3F42-TN 18kW, 39A, Size 4, OLED 60205 BFI-P2-40-030-3F42-TN 18kW, 39A, Size 4, OLED 60209 BFI-P2-54-0610-3F42-TN 30kW, 61A, Size 6, OLED 60209 BFI-P2-64-100-3F42-TN 30kW, 61A, Size 6, OLED 60219 BFI-P2-64-000-3F42-TN 30kW, 61A, Size 6 60219 BFI-P2-64-000-3F42-TN 30kW, 61A, Size 6 60219 BF						
BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP20, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, BFIACH INDIVIDUAL INDIVI						
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BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFIARRITISTICS, Main switch, Handcontrol 0,75 to 4 kW. Contact Beijer for more information.  BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, BFIARRITISTICS, W. Contact Beijer for more information.  BFI-P2 Input 3-phase 280-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, BFIARRITISTICS, Spring 1 (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c			inter, Brancer unbiblior			
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BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor Main switch, Handcontrol						
Braketranistor, Main switch, Handcontrol 0,75 to 4 kW. Contact Beijer for more information.  BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketranistor 5,575 kW. Contact Beijer for more information.  BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP20, EMC-filter, Braketranistor BFI-P2-24-0022-3F42-SN 0,75 kW, 2,2A, Size 2, LED 60200 BFI-P2-24-0013-764-SN 1,8 kW, 9,5A, Size 2, LED 60201 BFI-P2-24-0095-3F42-SN 2,2 kW, 9,5A, Size 2, LED 60202 BFI-P2-24-0095-3F42-SN 2,2 kW, 9,5A, Size 2, LED 60203 BFI-P2-34-0180-3F42-SN 7,5 kW, 14A, Size 3, LED 60204 BFI-P2-34-0180-3F42-SN 7,5 kW, 14A, Size 3, LED 60205 BFI-P2-34-0180-3F42-SN 7,5 kW, 14A, Size 3, LED 60206 BFI-P2-34-0300-3F42-SN 7,5 kW, 14A, Size 4,0 LED 60206 BFI-P2-44-0300-3F42-TN 18kW, 30A, Size 4,0 LED 60206 BFI-P2-44-0300-3F42-TN 18kW, 30A, Size 4,0 LED 60209 BFI-P2-44-0300-3F42-TN 3,7 kW, 72A, Size 5,0 LED 60209 BFI-P2-54-0610-3F42-TN 3,7 kW, 72A, Size 5,0 LED 60209 BFI-P2-54-0610-3F42-TN 3,7 kW, 72A, Size 5,0 LED 60209 BFI-P2-64-1100-3F4A-MN 45kW, 90A, Size 6A, TFT TBD BFI-P2-64-1100-3F4A-MN 95kW, 10A, Size 6B, TFT TBD BFI-P2-64-1100-3F4A-MN 90kW, 180A, Size 6B, TFT TBD BFI-P2-64-1800-3F4A-MN 90kW, 180A, Size 6B, TFT TBD BFI-P2-84-3700-3F42-TN 20kW, 45A, Size 6B, TFT TBD BFI-P2-84-3700-3F42-TN 30kW, 61A, Size 6B, TFT TBD BFI-P2-84-3700-3F42-TN 30kW, 45A, Size 6B, TFT TBD BFI-P2-84-3700-3F42-TN 30kW, 45A, Size 6B, TFT TBD BFI-P2-84-3700-3F42-TN 30kW, 15A, Size 8, UED 60265 BFI-P2-1400-3F4A-MN 90kW, 180A, Size 6B, TFT TBD BFI-P2-84-3700-3F42-TN 30kW, 45A, Size 9 60210 BFI-P2-24-0022-3F4X-TN 4, Size 16 60215 BFI-P2-1400-3F4A-TN 5, SkW, 14A, Size 2 60213 BFI-P2-1400-3F4A-TN 5, SkW, 14A, Size 2 60213 BFI-P2-1400-3F4A-TN 5, SkW, 14A, Size 2 60213 BFI-P2-1400-3F4A-TN 5, SkW, 14A, Size 2 60215 BFI-P2-24-0003-3F4A-TN 1, SkW, 3A, Size 2 60215 BFI-P2-24-0003-3F4A-TN 1, SkW, 3A, Size 2 60215 BFI-P2-24-0003-3F4A-TN 1, SkW, 3A, Size 2 60215 BFI-P2-14003-3F4A-TN 1, SkW, 3A, Size 4 60227 BFI-P2-14003-3F4A-TN 1, SkW, 3A, Size 4 60227 BFI-P2						
BFI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  5,5-75 kW. Contact Beijer for more information.  BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor  BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor  BFI-P2-24-0022-3F42-SN 0,75kW, 2,2A, Size 2, LED 60200  BFI-P2-24-0041-3F42-SN 1,5kW, 4,1A, Size 2, LED 60201  BFI-P2-24-0095-3F42-SN 1,5kW, 9,5A, Size 2, LED 60202  BFI-P2-34-0140-3F42-SN 5,5kW, 14A, Size 3, LED 60204  BFI-P2-34-0140-3F42-SN 5,5kW, 14A, Size 3, LED 60205  BFI-P2-34-0140-3F42-SN 1,5kW, 30A, Size 4, DLED 60205  BFI-P2-34-0240-3F42-SN 1,5kW, 30A, Size 4, DLED 60206  BFI-P2-34-0300-3F42-TN 1,5kW, 30A, Size 4, DLED 60206  BFI-P2-44-0309-3F42-TN 1,5kW, 30A, Size 4, DLED 60207  BFI-P2-44-0400-3F42-TN 2,2kW, 46A, Size 4, DLED 60209  BFI-P2-54-0610-3F42-TN 3,0kW, 61A, Size 5, DLED 60299  BFI-P2-54-0610-3F42-TN 3,0kW, 61A, Size 5, DLED 60290  BFI-P2-54-0610-3F4A-MN 45kW, 90A, Size 6A, TFT 1BD  BFI-P2-64-1900-3F4A-MN 45kW, 190A, Size 6A, TFT 1BD  BFI-P2-64-1900-3F4A-MN 95kW, 110A, Size 6B, TFT 1BD  BFI-P2-64-1900-3F4A-MN 90kW, 180A, Size 6B, TFT 1BD  BFI-P2-84-300-3F42-TN 250kW, 450A, Size 8, OLED 60265  BFI-P2-19 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2-24-0022-3F4X-TN 1, Six W, 31A, Size 2 60215  BFI-P2-19 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2-24-003-3F4X-TN 1, Six W, 34A, Size 2 60215  BFI-P2-24-0023-3F4X-TN 1, Six W, 34A, Size 2 60215  BFI-P2-19 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2-24-003-3F4X-TN 1, Six W, 34A, Size 2 60215  BFI-P2-19 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2-24-003-3F4X-TN 1, Six W, 34A, Size 2 60215  BFI-P2-24-003-3F4X-TN 1, Six W, 34A, Size			C-filter, OLED,			
### SPI-P2 Input 3-phase 200-240 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor  ### SPI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor  ### BFI-P2-24-0024-3F42-SN						
Spin			C-filter, OLED,			
BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP20, EMC-filter, Braketransistor           BFI-P2-24-0022-3F42-SN         0,75kW, 2,2A, Size 2, LED         60200           BFI-P2-24-0058-3F42-SN         2,2kW, 5,8A, Size 2, LED         60201           BFI-P2-24-0095-3F42-SN         2,2kW, 5,8A, Size 2, LED         60202           BFI-P2-34-0140-3F42-SN         4kW, 9,5A, Size 2, LED         60203           BFI-P2-34-0180-3F42-SN         7,5kW, 18A, Size 3, LED         60206           BFI-P2-34-0180-3F42-SN         7,5kW, 18A, Size 3, LED         60206           BFI-P2-34-0300-3F42-TN         11kW, 24A, Size 3, LED         60207           BFI-P2-44-0309-3F42-TN         18kW, 39A, Size 4, OLED         60207           BFI-P2-44-0460-3F42-TN         30kW, 61A, Size 5, OLED         60209           BFI-P2-46-060-3F42-TN         37kW, 72A, Size 5, OLED         60290           BFI-P2-54-0720-3F42-TN         37kW, 72A, Size 5, OLED         60291           BFI-P2-64-1900-3F4N-MN         45kW, 90A, Size 6A, IFT         TBD           BFI-P2-64-1900-3F4N-MN         75kW, 150A, Size 6B, IFT         TBD           BFI-P2-64-1800-3F4N-MN         75kW, 150A, Size 6B, IFT         TBD           BFI-P2-16put 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFF-P2-10put 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFF-P2-10put 3-phase 380						
BFI-P2-24-002-3F42-SN   0,75kW, 2,2A, Size 2, LED   60201						
BFI-P2-24-0041-3F42-SN						
BFI-P2-24-0058-3F42-SN						
BFI-P2-24-0095-3F42-SN						
BFI-P2-34-0140-3F42-SN    5,5kW, 14A, Size 3, LED						
BFI-P2-34-0240-3F42-SN						
BFI-P2-44-0300-3F42-TN	BFI-P2-34-0180-3F42-SN		60205			
BFI-P2-44-0390-3F42-TN   18kW, 39A, Size 4, OLED   60208						
BFI-P2-44-0460-3F42-TN   22kW, 46A, Size 4, OLED   60209						
BFI-P2-54-0610-3F42-TN   30kW, 61A, Size 5, OLED   60290						
BFI-P2-54-0720-3F42-TN   37kW, 72A, Size 5, OLED   60291						
BFI-P2-64-100-3F4N-MN						
BFI-P2-64-1500-3F4N-MN 75kW, 150A, Size 6B, TFT TBD BFI-P2-64-1800-3F4N-MN 90kW, 180A, Size 6B, TFT TBD BFI-P2-64-1800-3F4N-MN 200kW, 370A, Size 8, OLED 60265 BFI-P2-84-4500-3F42-TN 250kW, 450A, Size 8, OLED 60268 BFI-P2-84-4500-3F42-TN 250kW, 450A, Size 8, OLED 60268 BFI-P2-84-4500-3F42-TN 250kW, 450A, Size 8, OLED 60268 BFI-P2-19hut 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFI-P2-24-0022-3F4X-TN 1, SkW, 4,1A, Size 2 60213 BFI-P2-24-0022-3F4X-TN 1, SkW, 4,1A, Size 2 60213 BFI-P2-24-0095-3F4X-TN 4kW, 9.5A, Size 2 60217 BFI-P2-34-0180-3F4X-TN 5, SkW, 14A, Size 3 60219 BFI-P2-34-0180-3F4X-TN 7, SkW, 18A, Size 3 60221 BFI-P2-34-0180-3F4X-TN 7, SkW, 18A, Size 3 60221 BFI-P2-34-0190-3F4X-TN 1, SkW, 4,1A, Size 2 60271 BFI-P2-24-0022-3F4Y-TN 1, SkW, 4,1A, Size 2 60271 BFI-P2-24-0023-3F4Y-TN 1, SkW, 4,1A, Size 2 60271 BFI-P2-24-0058-3F4X-TN 2,2kW, 5,8A, Size 2 60271 BFI-P2-24-0058-3F4X-TN 4kW, 9,5A, Size 2 60275 BFI-P2-24-0095-3F4X-TN 4kW, 9,5A, Size 2 60275 BFI-P2-34-0180-3F4X-TN 1, SkW, 4,1A, Size 3 60279 BFI-P2-34-0180-3F4X-TN 1, SkW, 14A, Size 3 60279 BFI-P2-34-0180-3F4X-TN 1, SkW, 14A, Size 3 60279 BFI-P2-34-0100-3F4X-TN 1, SkW, 14A, Size 3 60279 BFI-P2-34-0100-3F4X-TN 1, SkW, 14A, Size 3 60279 BFI-P2-34-0100-3F4X-TN 1, SkW, 14A, Size 4 60223 BFI-P2-44-0300-3F4N-TN 15kW, 30A, Size 4 60227 BFI-P2-44-0300-3F4N-TN 15kW, 30A, Size 4 60227 BFI-P2-44-0300-3F4N-TN 15kW, 30A, Size 4 60227 BFI-P2-44-0300-3F4N-TN 18kW, 30A, Size 4 60227 BFI-P2-44-0300-3F4N-TN 18kW, 30A, Size 4 60227 BFI-P2-54-0010-3F4N-TN 18kW, 30A, Size 4 60227 BFI-P2-54-0010-3F4N-TN 18kW, 30A, Size 6 60231 BFI-P2-64-1000-3F4N-TN 30kW, 61A, Size 5 60231 BFI-P2-64-1000-3F4N-TN 75kW, 150A, Size 6 60245 BFI-P2-64-1000-3F4N-TN 75kW, 150A, Size 6 60245 BFI-P2-64-1000-3F4N-TN 75kW, 150A, Size 6 60245 BFI-P2-64-1000-3F4N-TN 100kW, 202A, Size 7 60253 BFI-P2-64-1000-3F4N-TN 100kW, 202A, Size 7 60253 BFI-P2-64-1000-3F4N-TN 100kW, 202A, Size 7 60253			TBD			
BFI-P2-84-370-3F42-TN   200kW, 370A, Size 8, 0LED   60265	BFI-P2-64-1100-3F4N-MN	55kW, 110A, Size 6A, TFT	TBD			
BFI-P2-84-4500-3F42-TN 200kW, 370A, Size 8, 0LED 60265 BFI-P2-84-4500-3F42-TN 250kW, 450A, Size 8, 0LED 60268 BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor BFI-P2-24-0022-3FAX-TN 0,75kW, 2,2A, Size 2 60211 BFI-P2-24-0041-3FAX-TN 1, 15kW, 4,1A, Size 2 60213 BFI-P2-24-0058-3F4X-TN 4, 15kW, 4,1A, Size 2 60215 BFI-P2-24-0095-3FAX-TN 4, 4kW, 9,5A, Size 2 60217 BFI-P2-24-0095-3FAX-TN 4, 4kW, 9,5A, Size 2 60217 BFI-P2-24-0180-3FAX-TN 7,5kW, 18A, Size 3 60221 BFI-P2-34-0180-3FAX-TN 7,5kW, 18A, Size 3 60221 BFI-P2-1put 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor, Main switch, Handcontrol BFI-P2-24-0022-3FAY-TN 0,75kW, 2,2A, Size 2 60273 BFI-P2-24-0022-3FAY-TN 1,5kW, 4,1A, Size 2 60273 BFI-P2-24-0041-3FAY-TN 1,5kW, 4,1A, Size 2 60275 BFI-P2-24-0095-3FAY-TN 4kW, 9,5A, Size 2 60275 BFI-P2-24-0095-3FAY-TN 4kW, 9,5A, Size 2 60275 BFI-P2-24-0095-3FAY-TN 5,5kW, 18A, Size 3 60279 BFI-P2-34-0180-3FAY-TN 7,5kW, 18A, Size 3 60279 BFI-P2-34-0180-3FAY-TN 1,5kW, 4,1A, Size 3 60279 BFI-P2-34-0180-3FAY-TN 1,5kW, 18A, Size 3 60279 BFI-P2-44-020-3FAN-TN 1,5kW, 18A, Size 4 60223 BFI-P2-44-020-3FAN-TN 15kW, 30A, Size 4 60223 BFI-P2-44-0390-3FAN-TN 15kW, 30A, Size 4 60223 BFI-P2-44-0390-3FAN-TN 15kW, 30A, Size 4 60225 BFI-P2-44-0390-3FAN-TN 18kW, 39A, Size 4 60225 BFI-P2-54-0720-3FAN-TN 30kW, 61A, Size 5 60231 BFI-P2-64-0900-3FAN-TN 55kW, 10A, Size 6 60237 BFI-P2-64-0900-3FAN-TN 55kW, 10A, Size 6 60237 BFI-P2-64-100-3FAN-TN 55kW, 10A, Size 6 60245 BFI-P2-64-100-3FAN-TN 75kW, 150A, Size 6 60245 BFI-P2-64-100-3FAN-TN 75kW, 150A, Size 6 60245 BFI-P2-64-100-3FAN-TN 75kW, 150A, Size 6 60245 BFI-P2-64-100-3FAN-TN 100kW, 60A, Size 6 60245 BFI-P2-64						
BFI-P2-84-4500-3F42-TN 250kW, 450A, Size 8, OLED 60268  BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor  BFI-P2-24-0022-3F4X-TN 0,75kW, 2,2A, Size 2 60213  BFI-P2-24-0041-3F4X-TN 1,5kW, 4,1A, Size 2 60213  BFI-P2-24-0095-3F4X-TN 4kW, 9,5A, Size 2 60217  BFI-P2-34-0140-3F4X-TN 5,5kW, 14A, Size 3 60219  BFI-P2-34-0140-3F4X-TN 7,5kW, 18A, Size 3 60219  BFI-P2-34-0140-3F4X-TN 7,5kW, 18A, Size 3 60221  BFI-P2-34-0140-3F4X-TN 1,5kW, 4,1A, Size 3 60221  BFI-P2-24-0022-3F4Y-TN 0,75kW, 2,2A, Size 2 60271  BFI-P2-24-0023-3F4Y-TN 1,5kW, 4,1A, Size 2 60271  BFI-P2-24-0043-3F4Y-TN 1,5kW, 4,1A, Size 2 60273  BFI-P2-24-0058-3F4Y-TN 1,5kW, 4,1A, Size 2 60273  BFI-P2-24-0058-3F4Y-TN 1,5kW, 4,1A, Size 2 60275  BFI-P2-34-0140-3F4Y-TN 1,5kW, 4,1A, Size 2 60277  BFI-P2-34-0180-3F4Y-TN 1,5kW, 14A, Size 3 60279  BFI-P2-1808-3F4Y-TN 7,5kW, 14A, Size 3 60279  BFI-P2-1808-3F4Y-TN 7,5kW, 14A, Size 3 60281  BFI-P2-19-40-03F4N-TN 11kW, 24A, Size 4 60223  BFI-P2-44-0300-3F4N-TN 11kW, 24A, Size 4 60225  BFI-P2-44-0300-3F4N-TN 18kW, 30A, Size 4 60227  BFI-P2-44-0300-3F4N-TN 18kW, 30A, Size 4 60227  BFI-P2-44-0300-3F4N-TN 18kW, 30A, Size 4 60227  BFI-P2-54-000-3F4N-TN 18kW, 30A, Size 4 60227  BFI-P2-54-000-3F4N-TN 30kW, 64A, Size 5 60231  BFI-P2-54-000-3F4N-TN 30kW, 72A, Size 5 60231  BFI-P2-54-000-3F4N-TN 30kW, 72A, Size 5 60231  BFI-P2-54-000-3F4N-TN 35kW, 10A, Size 6 60245  BFI-P2-64-1000-3F4N-TN 75kW, 10A, Size 6 60245  BFI-P2-64-1000-3F4N-TN 100kW, 202A, Size 7 60253  BFI-P2-64-1000-3F4N-TN 100kW, 202A, Size 7 60257						
BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor           BFI-P224-0022-3F4X-TN         0,75kW, 2,2A, Size 2         60211           BFI-P224-0041-3F4X-TN         1,5kW, 4,1A, Size 2         60213           BFI-P224-0058-3F4X-TN         2,2kW, 5,8A, Size 2         60215           BFI-P224-0059-3F4X-TN         4kW, 9,5A, Size 2         60217           BFI-P234-0140-3F4X-TN         7,5kW, 14A, Size 3         60219           BFI-P234-0140-3F4X-TN         7,5kW, 18A, Size 3         60221           BFI-P21nput 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor, Main switch, Handcontrol         BFI-P224-0022-3F4VTN         0,75kW, 2,2A, Size 2         60271           BFI-P224-0041-3F4V-TN         1,5kW, 4,1A, Size 2         60273         60273           BFI-P224-0095-3F4V-TN         1,5kW, 4,1A, Size 2         60275           BFI-P224-0095-3F4V-TN         4kW, 9,5A, Size 2         60277           BFI-P234-0140-3F4V-TN         5,5kW, 14A, Size 3         60227           BFI-P234-0140-3F4V-TN         5,5kW, 14A, Size 3         60227           BFI-P234-0140-3F4N-TN         15kW, 30A, Size 4         60223           BFI-P244-0300-3F4N-TN         11kW, 24A, Size 4         60223           BFI-P244-0300-3F4N-TN         11kW, 24A, Size 4         60227						
Braketransistor           BFI-P2-24-0022-3F4X-TN         0,75kW, 2,2A, Size 2         60213           BFI-P2-24-0041-3F4X-TN         1,5kW, 4,1A, Size 2         60213           BFI-P2-24-0058-3F4X-TN         1,5kW, 4,1A, Size 2         60215           BFI-P2-24-0095-3F4X-TN         4kW, 9,5A, Size 2         60217           BFI-P2-24-0095-3F4X-TN         4,5kW, 9,5A, Size 2         60219           BFI-P2-34-0180-3F4X-TN         7,5kW, 18A, Size 3         60221           BFI-P2-19-1040-3F4X-TN         7,5kW, 18A, Size 3         60221           BFI-P2-10-1040-3F4X-TN         7,5kW, 18A, Size 2         60271           BFI-P2-24-0022-3F4Y-TN         1,5kW, 4,1A, Size 2         60271           BFI-P2-24-0041-3F4Y-TN         1,5kW, 4,1A, Size 2         60273           BFI-P2-24-0095-3F4Y-TN         1,5kW, 4,1A, Size 2         60275           BFI-P2-24-0095-3F4Y-TN         4,5kW, 9,5A, Size 2         60275           BFI-P2-34-0140-3F4Y-TN         5,5kW, 14A, Size 3         60279           BFI-P2-34-0190-3F4Y-TN         5,5kW, 14A, Size 3         60279           BFI-P2-34-0100-3F4N-TN         1kW, 9,5A, Size 4         60221           BFI-P2-44-0300-3F4N-TN         1kW, 94A, Size 4         60221           BFI-P2-44-0300-3F4N-TN         1kW, 94A, Size 4						
BFI-P2-24-0041-3FAX-TN		5 405 trie, output's pilase, ii 50, 2	, 0225,			
BFI-P2-24-0058-3F4X-TN	BFI-P2-24-0022-3F4X-TN	0,75kW, 2,2A, Size 2	60211			
BFI-P2-24-0095-3F4X-TN         4kW, 9,5A, Size 2         60217           BFI-P2-34-0140-3F4X-TN         5,5kW, 14A, Size 3         60219           BFI-P2-34-0140-3F4X-TN         7,5kW, 18A, Size 3         60221           BFI-P2 Ja-0140-3F4X-TN         7,5kW, 18A, Size 3         60221           BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor, Main switch, Handcontrol         BFI-P2-24-002-3F4Y-TN         0,75kW, 2,2A, Size 2         60271           BFI-P2-24-0041-3F4Y-TN         1,5kW, 4,1A, Size 2         60273         60275           BFI-P2-24-0058-3F4Y-TN         1,5kW, 4,1A, Size 2         60275           BFI-P2-24-0095-3F4Y-TN         4kW, 9,5A, Size 2         60277           BFI-P2-24-0108-3F4Y-TN         7,5kW, 18A, Size 3         60227           BFI-P2-24-0180-3F4Y-TN         7,5kW, 18A, Size 3         60281           BFI-P2-10put 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor         BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor           BFI-P2-44-0240-3F4N-TN         11kW, 24A, Size 4         60223           BFI-P2-44-0300-3F4N-TN         11kW, 30A, Size 4         60225           BFI-P2-44-0300-3F4N-TN         18kW, 39A, Size 4         60227           BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231 <t< td=""><td>BFI-P2-24-0041-3F4X-TN</td><td>1,5kW, 4,1A, Size 2</td><td>60213</td></t<>	BFI-P2-24-0041-3F4X-TN	1,5kW, 4,1A, Size 2	60213			
BFI-P2-34-0140-3F4X-TN 7,5kW, 14A, Size 3 60219 BFI-P2-34-0180-3F4X-TN 7,5kW, 18A, Size 3 60221 BFI-P2-34-0180-3F4X-TN 7,5kW, 18A, Size 3 60221 BFI-P2-14-013-3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor, Main switch, Handcontrol BFI-P2-24-0022-3F4Y-TN 0,75kW, 2,2A, Size 2 60271 BFI-P2-24-0058-3F4Y-TN 1,5kW, 4,1A, Size 2 60273 BFI-P2-24-0058-3F4Y-TN 1,5kW, 4,1A, Size 2 60275 BFI-P2-24-0095-3F4Y-TN 1,5kW, 4,1A, Size 2 60277 BFI-P2-34-0140-3F4Y-TN 1,5kW, 14A, Size 2 60277 BFI-P2-34-0140-3F4Y-TN 7,5kW, 18A, Size 2 60279 BFI-P2-34-0140-3F4Y-TN 7,5kW, 18A, Size 3 60281 BFI-P2-14-0180-3F4Y-TN 1,5kW, 14A, Size 3 60281 BFI-P2-14-0240-3F4N-TN 11kW, 24A, Size 4 60223 BFI-P2-44-0300-3F4N-TN 11kW, 24A, Size 4 60225 BFI-P2-44-0300-3F4N-TN 15kW, 30A, Size 4 60227 BFI-P2-44-0300-3F4N-TN 18kW, 39A, Size 4 60227 BFI-P2-44-0300-3F4N-TN 30kW, 64A, Size 4 60229 BFI-P2-54-0210-3F4N-TN 30kW, 64A, Size 5 60231 BFI-P2-54-020-3F4N-TN 37kW, 72A, Size 5 60231 BFI-P2-64-1000-3F4N-TN 45kW, 90A, Size 6 60245 BFI-P2-64-1000-3F4N-TN 75kW, 110A, Size 6 60245 BFI-P2-64-1100-3F4N-TN 75kW, 150A, Size 6 60245 BFI-P2-64-1800-3F4N-TN 75kW, 150A, Size 6 60249 BFI-P2-64-1800-3F4N-TN 75kW, 150A, Size 6 60249 BFI-P2-74-2400-3F4N-TN 10kW, 202A, Size 7 60253 BFI-P2-74-2400-3F4N-TN 10kW, 202A, Size 7 60257						
BFI-P2-34-0180-3F4X-TN 7,5kW, 18A, Size 3 60221  BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, BFRaketransistor, Main switch, Handcontrol  BFI-P2-24-0022-3F4Y-TN 0,75kW, 2,2A, Size 2 60271  BFI-P2-24-0041-3F4Y-TN 1,5kW, 4,1A, Size 2 60273  BFI-P2-24-0095-3F4Y-TN 4,00,5,8A, Size 2 60275  BFI-P2-24-0095-3F4Y-TN 4,00,5,8A, Size 2 60277  BFI-P2-34-0140-3F4Y-TN 5,5kW, 18A, Size 3 60279  BFI-P2-34-0140-3F4Y-TN 7,5kW, 18A, Size 3 60279  BFI-P2-34-0140-3F4Y-TN 7,5kW, 18A, Size 3 60279  BFI-P2-34-0140-3F4Y-TN 1,7,5kW, 18A, Size 3 60279  BFI-P2-34-0140-3F4Y-TN 1,7,5kW, 18A, Size 3 60279  BFI-P2-44-0300-3F4N-TN 11kW, 24A, Size 4 60225  BFI-P2-44-0300-3F4N-TN 15kW, 30A, Size 4 60225  BFI-P2-44-0300-3F4N-TN 18kW, 39A, Size 4 60227  BFI-P2-44-0460-3F4N-TN 22kW, 46A, Size 4 60229  BFI-P2-54-0720-3F4N-TN 37kW, 72A, Size 5 60231  BFI-P2-54-0720-3F4N-TN 37kW, 72A, Size 5 60231  BFI-P2-64-0900-3F4N-TN 55kW, 10A, Size 6 60237  BFI-P2-64-1000-3F4N-TN 75kW, 150A, Size 6 60237  BFI-P2-64-1000-3F4N-TN 75kW, 150A, Size 6 60237  BFI-P2-64-1000-3F4N-TN 75kW, 150A, Size 6 60245  BFI-P2-64-1800-3F4N-TN 75kW, 150A, Size 6 60245  BFI-P2-64-1800-3F4N-TN 75kW, 150A, Size 6 60245  BFI-P2-64-1800-3F4N-TN 75kW, 150A, Size 6 60245  BFI-P2-74-2400-3F4N-TN 10kW, 202A, Size 7 60253  BFI-P2-74-2400-3F4N-TN 10kW, 202A, Size 7 60253  BFI-P2-74-2400-3F4N-TN 10kW, 202A, Size 7 60257						
BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP66, EMC-filter, OLED, Braketransistor, Main switch, Handcontrol           BFI-P2-24-0022-3F4/*TN         0,75kW, 2,2A, Size 2         60273           BFI-P2-24-0041-3F4/*TN         1,5kW, 4,1A, Size 2         60275           BFI-P2-24-0058-3F4/*TN         2,2kW, 5,8A, Size 2         60277           BFI-P2-24-0095-3F4/*TN         4,8W, 9,5A, Size 2         60277           BFI-P2-34-0140-3F4/*TN         5,5kW, 14A, Size 3         60279           BFI-P2-34-0180-3F4/*TN         7,5kW, 18A, Size 3         60281           BFI-P2-34-0180-3F4/*TN         7,5kW, 18A, Size 3         60281           BFI-P2-1put 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor         BFI-P2-1mut 3-phase 348-VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor         BFI-P2-44-0240-3F4N-TN         11kW, 24A, Size 4         60223           BFI-P2-44-0300-3F4N-TN         11kW, 30A, Size 4         60223         60225           BFI-P2-44-0300-3F4N-TN         18kW, 39A, Size 4         60227         60227           BFI-P2-44-0300-3F4N-TN         18kW, 39A, Size 4         60227         60227           BFI-P2-64-060-3F4N-TN         30kW, 61A, Size 5         60231         60237           BFI-P2-64-000-3F4N-TN         37kW, 72A, Size 5         60233         60237           BFI-P						
Braketransistor, Main switch, Handcontrol           BFI-P2-24-0022-9FAY-TN         0,75kW, 2,2A, 5ize 2         60273           BFI-P2-24-0043-9FAY-TN         1,5kW, 4,1A, 5ize 2         60275           BFI-P2-24-0058-3FAY-TN         1,5kW, 4,1A, 5ize 2         60275           BFI-P2-24-0095-3FAY-TN         4kW, 9,5A, 5ize 2         60277           BFI-P2-34-0140-3FAY-TN         7,5kW, 14A, 5ize 3         60279           BFI-P2-34-0180-3FAY-TN         7,5kW, 18A, 5ize 3         60281           BFI-P2-10180-3FAY-TN         7,5kW, 18A, 5ize 3         60281           BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor         BFI-P2-44-0240-3FAN-TN         11kW, 24A, 5ize 4         60223           BFI-P2-44-0300-3FAN-TN         11kW, 30A, 5ize 4         60225         60225           BFI-P2-44-0300-3FAN-TN         18kW, 39A, 5ize 4         60227           BFI-P2-44-0400-3FAN-TN         18kW, 39A, 5ize 4         60227           BFI-P2-40-0610-3FAN-TN         30kW, 61A, 5ize 5         60231           BFI-P2-54-0720-3FAN-TN         37kW, 72A, 5ize 5         60231           BFI-P2-64-1900-3FAN-TN         45kW, 90A, 5ize 6         60247           BFI-P2-64-1100-3FAN-TN         75kW, 110A, 5ize 6         60241           BFI-P2-64-1800-3FAN-TN <t< td=""><td></td><td></td><td></td></t<>						
BFI-P2-24-0022-9F4Y-TN			,			
BFI-P2-24-0058-3FAY-TN         2,2kW, 5,8A, Size 2         60275           BFI-P2-24-0095-3FAY-TN         4kW, 9,5A, Size 2         60277           BFI-P2-34-0140-3FAY-TN         5,5kW, 14A, Size 3         60279           BFI-P2-34-0180-3FAY-TN         7,5kW, 18A, Size 3         60281           BFI-P2-19upt 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor         BFI-P2-44-0240-3FAN-TN         11kW, 24A, Size 4         60223           BFI-P2-44-0300-3FAN-TN         11kW, 30A, Size 4         60225         60227           BFI-P2-44-0300-3FAN-TN         18kW, 39A, Size 4         60227           BFI-P2-44-0640-3FAN-TN         22kW, 46A, Size 4         60229           BFI-P2-54-0610-3FAN-TN         37kW, 72A, Size 5         60231           BFI-P2-54-0720-3FAN-TN         37kW, 72A, Size 5         60233           BFI-P2-64-1000-3FAN-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1000-3FAN-TN         75kW, 10A, Size 6         60241           BFI-P2-64-1800-3FAN-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3FAN-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3FAN-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3FAN-TN         110kW, 202A, Size 7         60257						
BFI-P2-24-0095-3F4Y-TN						
BFI-P2-34-0140-3F4Y-TN   5,5kW, 14A, Size 3   60279						
BFI-P2-34-0180-3F4Y-TN         7,5kW, 18A, Size 3         60281           BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor           BFI-P2-44-0240-3F4N-TN         11kW, 24A, Size 4         60223           BFI-P2-44-0300-3F4N-TN         15kW, 30A, Size 4         60225           BFI-P2-44-0300-3F4N-TN         18kW, 39A, Size 4         60227           BFI-P2-44-0460-3F4N-TN         22kW, 46A, Size 4         60229           BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231           BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-1900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1900-3F4N-TN         75kW, 110A, Size 6         60241           BFI-P2-64-1800-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         110kW, 202A, Size 7         60257						
BFI-P2 Input 3-phase 380-480 VAC, Output 3-phase, IP55, EMC-filter, OLED, Braketransistor           BFI-P2-44-0240-3F4M-TN         11kW, 24A, Size 4         60223           BFI-P2-44-0300-3F4N-TN         15kW, 30A, Size 4         60225           BFI-P2-44-0390-3F4M-TN         18kW, 39A, Size 4         60227           BFI-P2-44-0460-3F4N-TN         18kW, 39A, Size 4         60229           BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231           BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1900-3F4N-TN         75kW, 110A, Size 6         60241           BFI-P2-64-1800-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         110kW, 202A, Size 7         60257			<del></del>			
Braketransistor           BFI-P2-44-0240-3F4N-TN         11kW, 24A, Size 4         60225           BFI-P2-44-0300-3F4N-TN         15kW, 30A, Size 4         60225           BFI-P2-44-0390-3F4N-TN         18kW, 39A, Size 4         60227           BFI-P2-44-0460-3F4N-TN         22kW, 46A, Size 4         60229           BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231           BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1000-3F4N-TN         75kW, 110A, Size 6         60241           BFI-P2-64-1800-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         90kW, 180A, Size 6         60249           BFI-P2-74-2400-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257						
BFI-P2-44-0300-3F4N-TN         15kW, 30A, Size 4         60225           BFI-P2-44-0390-3F4N-TN         18kW, 39A, Size 4         60227           BFI-P2-44-0610-3F4N-TN         22kW, 46A, Size 4         60229           BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231           BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1000-3F4N-TN         55kW, 110A, Size 6         60241           BFI-P2-64-1800-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         110kW, 202A, Size 7         60249           BFI-P2-74-2400-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257						
BFI-P2-44-0390-3F4N-TN         18kW, 39A, Size 4         60227           BFI-P2-44-0460-3F4N-TN         22kW, 46A, Size 4         60229           BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231           BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1000-3F4N-TN         55kW, 110A, Size 6         60241           BFI-P2-64-1800-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         90kW, 180A, Size 6         60249           BFI-P2-74-2020-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257	BFI-P2-44-0240-3F4N-TN		60223			
BFI-P2-44-0460-3F4N-TN         22kW, 46A, Size 4         60229           BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231           BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1100-3F4N-TN         55kW, 110A, Size 6         60241           BFI-P2-64-1500-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         90kW, 180A, Size 6         60249           BFI-P2-74-2020-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257						
BFI-P2-54-0610-3F4N-TN         30kW, 61A, Size 5         60231           BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1900-3F4N-TN         55kW, 110A, Size 6         60241           BFI-P2-64-1500-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         10kW, 180A, Size 6         60249           BFI-P2-74-020-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257						
BFI-P2-54-0720-3F4N-TN         37kW, 72A, Size 5         60233           BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1000-3F4N-TN         55kW, 110A, Size 6         60241           BFI-P2-64-1500-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         90kW, 180A, Size 6         60249           BFI-P2-74-020-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257						
BFI-P2-64-0900-3F4N-TN         45kW, 90A, Size 6         60237           BFI-P2-64-1100-3F4N-TN         55kW, 110A, Size 6         60241           BFI-P2-64-1500-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         90kW, 180A, Size 6         60249           BFI-P2-74-2020-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257						
BFI-P2-64-1100-3F4N-TN     55kW, 110A, Size 6     60241       BFI-P2-64-1500-3F4N-TN     75kW, 150A, Size 6     60245       BFI-P2-64-1800-3F4N-TN     90kW, 180A, Size 6     60249       BFI-P2-74-020-3F4N-TN     110kW, 202A, Size 7     60253       BFI-P2-74-2400-3F4N-TN     132kW, 240A, Size 7     60257						
BFI-P2-64-1500-3F4N-TN         75kW, 150A, Size 6         60245           BFI-P2-64-1800-3F4N-TN         90kW, 180A, Size 6         60249           BFI-P2-74-020-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257			<del></del>			
BFI-P2-74-2020-3F4N-TN         110kW, 202A, Size 7         60253           BFI-P2-74-2400-3F4N-TN         132kW, 240A, Size 7         60257			<del></del>			
BFI-P2-74-2400-3F4N-TN 132kW, 240A, Size 7 60257	BFI-P2-64-1800-3F4N-TN		<del></del>			
			<del></del>			
DFI-F2-74-3U2U-3F4N-1N   IBUKW, 3UZA, SIZE /   6UZ6T						
	DF1-PZ-/4-3UZU-3F4N-IN	IOUKW, 3UZA, SIZE /	00261			

IP20 IP66

112 188

257

238

4.8

221

185

1.9

Enclosure Height (mm)

Width (mm) Depth (mm)

Fixings (kg)

Package weight (kg)

IP20 IP66

131 211

310

256

8.4

261

205

3.5

IP20 IP55

160 171

9.2 11.5

440

240

13.2

260

20

4xM4 4xM4 4xM4 - 4xM8 - 4xM8 - - 4xM10 -

24

418

240

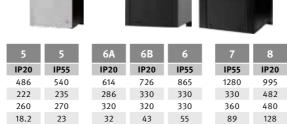
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Order number	Description	Part Number
Internal Options		
ABCC-ECT	EtherCat 2-port Module	63163
ABCC-EIT_2P	Modbus TCP 2 port Module	63165
ABCC-PRT_2P	ProfiNet 2 port Module	63164
ABCC-EIPT_2P	Ethernet IP 2 port Module	63122
ABCC-DPV1-2	Profibus DP D-sub Module	63142
ABCC-DEV-2	Devicenet Module	63120
ABCC-CCL	CC-Link Module	63250
OPT-2-EXTIO-BFI	Extended I/O, 3 digital inputs, 1 relay output	63123
OPT-2-CASCD-BFI	Extended Relay, 3 relay outputs	63119
OPT-2-ENCOD-BFI	TTL Encoder Module, 5 VDC	63121
OPT-2-ENCHT-BFI	TTL Encoder Module, 12-30 VDC	63170
OD-BR100-BFI	Internal Brakeresistor for IP20, 100ohm, 200W	63101
OD-BRES4-BFI	Internal brake resistor, 33 ohm, 500W, IP55, Size 4 and 5	63230
External Options		
OPT-BR050-IN-I55-BFI	External Brake resistor, IP55, 50 ohm, 200 W	63231
OPT-2-ISOL4-BFI	Isolator Switch Box, Size 4	63150
OPT-2-ISOL5-BFI	Isolator Switch Box, Size 5	63151
OPT-2-OPPAD-BFI	OLED Remote External Keypad	63201
OPT-2-OPORT-BFI	Basic External Keypad, 5 digits	63141
OPT-3-STICK-BFI	BFI SmartStick Bluetooth, Copy/Paste Parameters/PLC-program, Supports Smartphones and BFI-Tools on Windows 10	63489
OPT-3-WLKIT-BFI	BFI SmartStick Bluetooth, Copy/Paste Parameters/PLC-program, Supports Smartphones and BFI-Tools on Windows 7, 8, 10	63490
OPT-3-PCKIT-BFI	BFI SmartStick Bluetooth, Copy/Paste Parameters/PLC-program, Supports Smartphones and BFI-Tools on Windows 7, 8, 10, NFC	63491
OPT-J4505-BFI	RS-485 Data Cable 0,5m	63144
OPT-J4510-BFI	RS-485 Data Cable 1,0m	63145
OPT-J4530-BFI	RS-485 Data Cable 3,0m	63146
OPT-2-J45SP-BFI	RS485 Serial communication Data Cable 2-port Splitter for BFI-P2, BFI-H3, BFI-E3 for Modbus RTU and CANopen	63148
OPT-2-RJTRM-BFI	RJ-45 End termination RJ45 plug for CANopen and Modbus RTU communication with BFI	63202
CAB113	3m cable with 9-pole D-sub and RJ-45 between X2 HMI and BFI-H3/P2/E3 for Modbus RTU communication"	660000290
CAB114	3m cable for screwterminals and RJ-45 between PLC and BFI-H3/P2/E3 for Modbus RTU communication	660000291
CAB115	3m cable with USB and RJ45 (RS485) between PC and BFI-H3/P2/E3 for BFI-Tools	660000292
CAB154	3m cable with 9-pole D-sub and RJ-45 between X2 control, BFI-H3/P2/E3 for CANopen communication	TBD
CAB 155 BFI-Tools PLC-licence	3m cable for screwterminals and RJ-45 between PLC and BFI-H3/P2/E3 for CANopen communication	TBD
	BFI-Tools PLC-licence	63300









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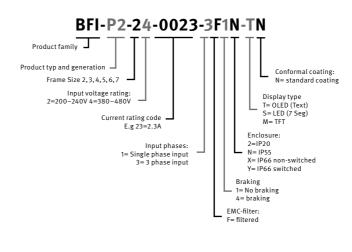
128



Input ratings	Supply voltage	200 – 240V ± 10% 380 – 480V ± 10%	Control specification	Control method	V/F voltage Energy optin		Control features	Hoist operation		
	Supply frequency	48 – 62Hz			Sensorless vector speed control Sensorless vector torque control			PID control		
	Displacement power factor	>0.98			Closed loop (encoder) speed control  Closed loop (encoder) torque control  Open loop PM vector control		Maintenance	Fault memory		
	Phase imbalance	3% maximum allowed					& diagnostics			
	Inrush current	< rated current						Data logging		
	Power cycles	120 per hour maximum, evenly spaced		PWM frequency	4-32kHz ef	ffective				
Output ratings	Output power	230V 1 phase input: 0.75–2.2kW 230V 3 phase input: 0.75–75kW 400V 3 phase input: 0.75–250kW			Stopping mode	Ramp to sto 0.1–600 se Coast to sto			Maintenance indicator	
	Overload capacity	150% for 60 seconds 200% for 2 seconds				oraking king transistor (optional for 6 & 7)		Monitoring		
	Output frequency	0 – 500Hz, 0.1Hz resolution		Skip frequency	frame sizes	t, user adjustable	Standards	Low Voltage Directive		
	Typical efficiency	98%		Setpoint control	Single point	0 to 10 volts				
				Setponic control		10 to 0 volts		EMC Directive		
Ambient Conditions	Temperature	Storage : -40 to 60°C Operating : -10 to 40°C, IP55/66 -10 to 50°C, IP20			Analog signal -10 to 10 volts 0 to 20mA 20 to 0mA 4 to 20mA 20 to 4 mA			Additional Conformance		
	Altitude	Up to 1000m ASL without derating						Marine Certification		
		Up to 2000m maximum UL approved Up to 4000m maximum (non UL) Above 1000m : derate by 1% per 100m					Digital	Motorised potentiometer (keypad)		Environmental Conditions
	Humidity	95% max, non-condensing			Digital	Modbus RTU CANopen				
Enclosure	Ingress Protection	IP20 (size 2, 3, 4, 5, 6A, 6B) IP40 (size 8) IP55 (size 4, 5, 6, 7) IP66 (size 2, 3)		Supported protcols		Fieldbus or ethernet				
Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad	Communca- tion		Modbus RTU - standard CANopen - standard Profibus DP - option Ethernet IP - option Modbus TCP - option EtherCAT - option DeviceNet - option					
	Display	Built-in multi language OLED display (except IP20) LED display (IP20 only)								
	PC	BFI-Tools			CC-Link - op	tion				
	App for Android and IOS	BFI-Tools Mobile	1/0	Power supply	Profinet - option  24 Volt DC, 100mA, short circuit					
			specification		protected 10 Volt DC, 5mA for potentiometer					
				Programmable inputs	3) 3 digital (op	andard (optional additional otional additional 3) ligital selectable				
				Digital inputs	10 – 30 Volt supply, NPN Response ti					
				Analog inputs						
				Safety	Safe torque	off SIL2/pld				
				Programmable outputs	2 analog / d	onal additional 3) igital tional additional 3)				
				Relay outputs		oltage: 250 VAC, 30 VDC urrent capacity: 6A AC, 5A DC				
				Analog outputs	0 to 10 Volt 0 to 20mA 4 to 20mA					

# Model code guide

# **Connection diagram**



+24V	1
DIN1	2
DIN2	3
DIN3	4
+10V	5
← AIN1	6
OV 0	7
A01	8
ov	9
AIN2	10
A02	11
STO+	12
STO-	13
RL1-C	14
RL1-NO	15
RL1-NC	16
RL2-C -	17
RL2-NO	J 18

Function	Default setting			
12 Volt DC output, 100mA max / 24 Volt DC Input				
Digital input 1	Drive start / enable			
Digital input 2	Forward or reverse			
Digital input 3	Analog or preset speed			
+10 Volt power supply 5mA				
Analog input 1	Speed reference 0–10 Volt			
0 Volt				
Analog output 1	Motor speed			
0 Volt				
Analog input 2				
Analog output 2	Motor current			
Safe torque off input				
Safe torque off input				
Output relay 1	Drive healthy / fault			
Output relay 2	Drive running			

Hoist operation Dedicated hoist operation mode

2014/35/EU 2014/30/EU

UL, cUL, EAC, RCM DNV Type Approval

Designed to meet IEC 60721-3-3, in operation: IP20 Drives: 3S2/3C2 IP55 & 66 Drives: 3S3/3C3

Internal PID control with feedback Last 4 trips stored with time stamp

Logging of data prior to trip for diagnostic purposes : Output current, drive temperature, DC bus voltage Maintenance indicator with user adjustable maintenance interval Onboard service life monitoring Hours run meter Resettable & non resettable kWh meters

# **About Beijer Electronics**

Beijer Electronics is a multinational, cross-industry innovator that connects people and technologies to optimize processes for business-critical applications. Our offer includes operator communication, automation solutions, digitalization, display solutions and support. As experts in user-friendly software, hardware and services for the Industrial Internet of Things, we empower you to meet your challenges through leading-edge solutions.

Beijer Electronics is a Beijer Group company. Beijer Group has a sale over 1.4 billion SEK in 2018 and is listed on the NASDAQ OMX Nordic Stockholm Small Cap list under the ticker BELE. www.beijergroup.com

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Roskilde	Seoul	Istanbul
<b>FRANCE</b> Paris	SWEDEN Göteborg	<b>UNITED KINGDOM</b> Nottingham
	Jönköping	

