



BFI-E3-12-0043-1F1B-01

Article number 63486

Output power 0.37 kW
Output 1x230 VAC, 4.3 A
Input voltage 1x200-240 VAC
IP66

Facts

General description

Article number	63486
Warranty	3 years

Mechanical

IP class	IP66
Physical size	Size 1
Measurements (H x W x D)	232 mm x 161 mm x 162 mm
Weight	2,3 kg
Typical power loss at rated power	0,02
Main switch	Yes
Built in Main switch, control switch and potentiometer	Yes
Conformal coated PCBs	Yes, 3C3/3S3 conformal coated PCBs

Output ratings

Output voltage	1 x 230 VAC
Rated motor current	4.3 A
Overload capacity	150% for 60 seconds, 175% for 2,5 seconds
Motor power	0.37 kW
Output frequency	0 – 500Hz, 0.1Hz resolution
Built-in brake transistor	No
Regenerative capacity	No brake transistor

Input ratings

Supply voltage	200 – 240VAC ± 10%
Voltage fluctuations	+/- 10%
Phase imbalance	3% maximum allowed
Displacement factor	> 0.98
Supply frequency	48 – 62Hz
Power cycles	120 per hour maximum, evenly spaced

Control specification

Control modes	V/F Voltage Vector, Energy Optimised V/F, Sensorless Vector Speed Control, Synchronous Reluctance Motor Control, Brushless DC Motor Control, Open Loop PM Vector Control
Current/torque limitation	Current limitation
PWM frequency	4-32 kHz effective
Stopping mode	Ramp to Stop: User Adjustable 0.1 – 600 seconds,Coast to Stop
Braking	Motor Flux Braking
Skip frequency	No
Analog setpoint control	0 to 10V, 10 to 0V, 0 to 20mA, 20 to 0mA, 4 to 20mA, 20 to 4mA
Digital setpoint control	4 fixed speeds, Motorised Potentiometer, Keypad, Modbus RTU, CANopen

Communication

Modbus RTU	9.6 - 115.2 kbps (8N1, 8N2, 8E1, 8O1)
BACnet MS/TP	No
Modbus TCP	No
Ethernet IP	No
EtherCat	No
Profinet IO	No
Profibus DP(DPV1)	No
Device Net	No
CC-Link	No
CAN open	Yes, 125 - 1000 kbps

Display

Programmable display	No
Multi language OLED display	No
External OLED display	Yes
LED display	Yes

HVAC

PID-control	PI-control with sleep/wake up
Spin start	Yes
Pump dry protection	No
Pump prime and burst protection	No
Stir function	No
Motor pre-heat	No
Broken impeller and broken belt detection	No
Automatic cleaning for pumps	No
Bypass control	No
Fire mode	Yes

Control terminals

Power supply	100 mA @ 24 VDC, 10 mA @ 10 VDC
Inputs	4 in total, 2 Digital, 2 Analog or Digital, selectable
Digital inputs	8-30 V DC, PNP, Response time: < 4 msec, Internal or external supply
Analog inputs	Resolution:12 bit, Response time: <4 msec; Accuracy: <± 2% of full scale, Adjustable scaling
Outputs	2 total, 1 relay, 1 analog or digital
Digital transistor outputs	24VDC/20 mA, Internal supply
Relay outputs	Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 6A AC, 5A DC
Analog outputs	0 to 10 V, 10 to 0 V, 0 to 20mA, 20 to 0mA, 4 to 20mA, 20 to 4mA
Safety inputs	No
Extra IOs	No

Control features

Speed control Master/slave	Slave
Modbus master functionality	No
Advanced hoist control	No
Built-in PLC	No

Standard compliances

Low voltage directive	2014/35/EU
EMC directive	2014/30/EU Cat C1 according to EN61800-3:2004
Conformance	CE, UL
Machine directive	2006/42/EC
Marine approvals	No
Safe torque OFF	No
Restriction of hazardous substances	RoHS2
Registration evaluation and authorisation of chemicals	Reach
Earth leakage current	EN 61800-5-1: 2007. Test techniques EN 60990:2000. 1x230 VA < 2,5 mA, 3x400VAC < 4,65 during runing
DC Bus discharge time	EN 61800-5-1:2007
Electrostatic discharge	EN 61800-3:2004+A1-2012. Test techniques EN 61000-4-2:2009.
Dielectric strength	61800-5-1: 2007
Surge	EN 61800-3: 2004+A1-2012. Test techniques EN 61000-4-5:2006.
Electrical fast transient burst	EN 61800-3: 2004+A1-2012. Test techniques EN 61000-4-4:2004.

Ambient conditions

Temperature operation	-20 to 40 °C
Humidity	95% max, non-condensing

Maintenance

Fault memory	Last 4 Trips stored with time stamp
Data logging	Logging of data prior to trip, Current, Temperature, DC Bus Voltage
Maintenance indicator	No
Monitoring	Hours Run Meter, kWh/MWh meter

People & Technology. Connected.

We are a people company. Our experienced, skilled and passionate people empower you to meet your challenges through best-in-class, user-friendly solutions. We are a technology company. We help you optimize processes through our software, hardware and services, and through our support. Connecting people and technologies gives you the means to accomplish your goals and ambitions, and gain a competitive edge in today's digitalized world.

Visiting address HQ: Stora Varvsgatan 13a

SE - 211 75 Malmö, SWEDEN

+46 40 35 86 00 (tel:+46 40 35 86 00)

info@bejjerelectronics.com (mailto:info@bejjerelectronics.com)