

Electronic Ignition Units EBI4 HP Series



General Data Sheet

For specific information on this product, please contact Danfoss Burner Components

The EBI4 HP unit series is specially designed for applications where High Power ignition is required.

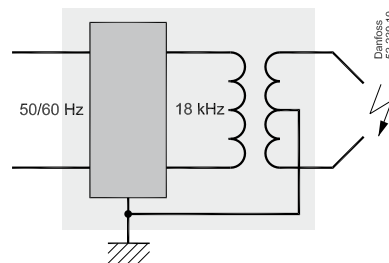
EBI4 HPM is a 2-pole version with secondary mid-point grounded. EBI HP1P is a 1-pole version for ignition between one electrode and frame.

The units are characterized by a very powerful spark, capable of igniting large capacity oil and gas burners. They may also be used in applications where high ignition performance and reliability are required.

Applications and Features

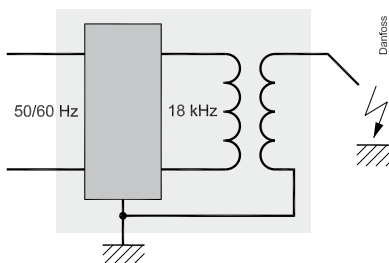
- 1- or 2-pole ignition
- Low power consumption due to high efficiency (new technology)
- Complies with the RoHs and WEEE directives

- EMC according to EN 55014-1 and EN 55014-2
- Earth connection through the primary cable
- Same dimensions and flexible mounting as the well-known EBI series



EBI4 HPM

- Oil and gas burners requiring high power ignition
- 33% ED at 60°C
- Top or front connection for secondary cables
- 230 V



EBI4 HP1P

- Oil and gas burners requiring high power ignition
- 33% ED at 60°C
- Top or front connection for secondary cables
- 230 V

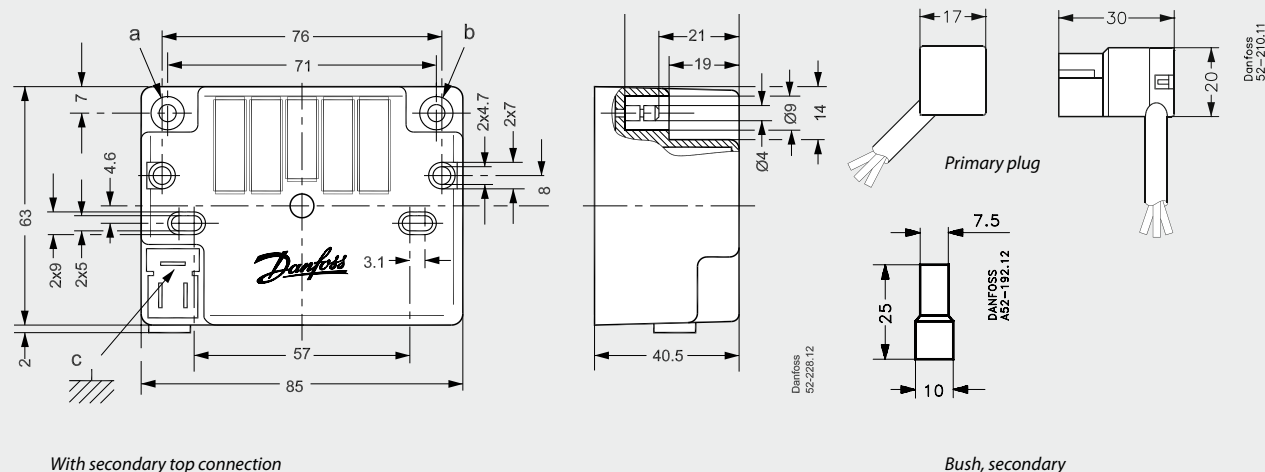
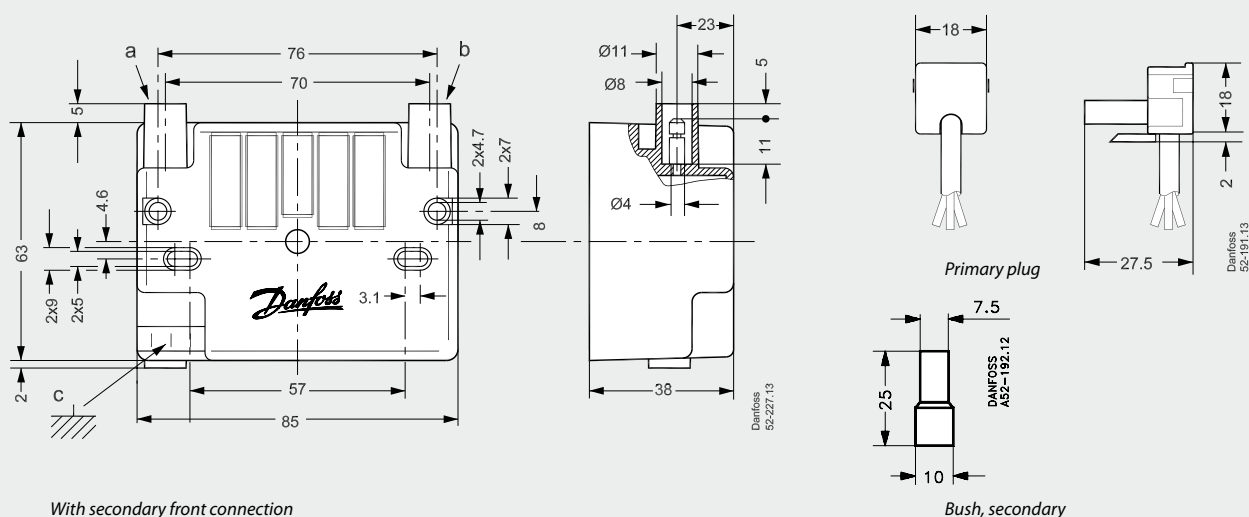
Technical Data

Type	EBI4 HPM	EBI4 HP1P
Mains connection	230 V - 0.4 A - 50/60 Hz - 90 VA	
Working range	187-255 V	
Main fuse	10 A	
Secondary connection*	2 × 7.5 kV	12 kV
Short circuit current (rms)	48 mA	48 mA
Frequency	20 kHz	20 kHz
ED % in 3 min.	33% at 60°C	
Ambient temperature	-10 to +60°C	
Storage temperature	-25 to +85°C	
Enclosure	IP 40	
EMC (Generic Standard)	Immunity EN 55014-1 Emission EN55014-2	
Primary connection	3× 0.75 mm ² cable with special plug. Cables in 7 standard lengths from 180 mm to 630 mm 3 × 0.75 mm ² cable with standard AMP connection	
Secondary connections	2 × Ø4 mm plugs	1 × Ø4 mm plugs
Earthing	Through the primary cable	
Distance between electrodes	Recommended 2.5 mm to 5 mm	
Weight	300 g	

* Avoid use of divergent electrodes due to risk of electrical cable break down and too high ignition voltage.

Dimensions

EBI4 HPM	EBI4 HP1P	a: Left terminal b: Right terminal c: Earth connection
a+b+c	b+c	



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