

# KÜHTREIBER®

## FĒNIX 200 PFC

10-200 A

165 A/60%



### DESCRIPTION

FĒNIX 200 PFC is a compact, portable, under-voltage welding machine for MMA and TIG welding, which is equipped with PFC (Power Factor Correction).

FĒNIX is equipped by high-tech using energy-saving inverter micro-processor technology PFC with the using of a planar transformer, which modulates the input stream so that it has an almost ideal sinusoidal waveform, which provides up to 92% efficiency of the machine.

PFC technology ensures stable welding process with fluctuating voltage of electrical network, even when using long extension cables or using electric generators, without any apparent difference in the arc. The machine is able to operate from 90 V in electrical network. FĒNIX 200 PFC is able to work of the same protection from the network and to get against conventional welding machines up to 40% more power (eg where the machine ejects the fuse at 150 A, FĒNIX 200 PFC welded without problems on current of 200 A).

The machine has a function to limit the output current by which one can work with the machine in low protection in the network. FĒNIX PFC is predestined for use on generator, long extension cable and using the weak breakers.

FĒNIX 200 PFC provides excellent arc stability, simple and easy to understand controls, remote control options, performance and equipment. Machine controls are integrated into the button keypad, which increases the accuracy and reliability of the machine control. Welding machine FĒNIX 200 PFC is designed for the most demanding users.

### PROPERTIES AND EQUIPMENT

- May be used with power generator with min. output of 3.5 kVA (with A.V.R. feature).
- Optional use of up to 200 m (2.5 mm<sup>2</sup> cross-section) extension cable.
- It is possible to weld while 60% (from 90 V) voltage decline (even with continuous decline) in network – with electrode Ø 1.6; 2.0; 2.5; 3.2; 4.0 mm.
- Connection of a remote control to regulate welding current.
- Thermal protection with light indicator.

<b>Code</b>	<b>51348</b>
<b>Welding method</b>	MMA/TIG
<b>Input power 50/60 Hz [ V ]</b>	1x~230 V (-60%; +15%)
<b>Protection – slow [ A ]</b>	20
<b>Welding current range [ A ]</b>	10 – 200
<b>Duty cycle 100% (40°C) [ A ]</b>	140
<b>Duty cycle 60% (40°C) [ A ]</b>	165
<b>Duty cycle (40°C) [ A ]</b>	200 (40%)
<b>Mains current/Input 60% [ A/kVA ]</b>	20/4.6
<b>Open circuit voltage [ V ]</b>	88
<b>Ingress Protection</b>	IP 23 S
<b>Cable panel socket</b>	35-50
<b>Recommended type of torch</b>	KTB 17V
<b>Dimensions [ mm ]</b>	225 × 112 × 425
<b>Weight [ kg ]</b>	5.5

### Method MMA

- Function HOT START enables easier ignition of stick electrodes.
- Function ANTI STICK prevents adhesion of stick electrode.
- Function ARC FORCE ensures arc stability.
- V.R.D. feature = MMA safety system; the maximum unloaded open circuit voltage across the output terminals is reduced to 15V.
- Function of limiting the output/input current to prevent loss of circuit breakers (option of simulation of any protection from 5 to 30 A).
- Function SOFT START MMA (Prevents outage of circuit breakers).

### Method TIG

- Manual arc ignition using – LIFT ARC.
- Function PULSE.
- DOWN SLOPE (deceleration time on end current).
- END CURRENT.
- Function to limit the output current.

### USAGE

High performance, excellent welding properties a ability to cope with 60 % under voltage machines are ideal for use in assembly, in maintenance operations, repairs, heavy industry, etc.

