

SPO-32

32A Special Purpose Outlet

The safest way for feeding electrical ranges and other heavy-load home appliances.

Wiring devices dedicated for feeding heavy-load home appliances are scarcely available and usually designed bulky in size with unpleasant aesthetic which can hardly be accepted in houses! Although, these bulky designs are electrically reliable and okay with industrial installations.



We at **Mastering & Innovation** have designed a slim wiring device for this application with very pleasant aesthetic – stainless steel 304 front face plates – suitable for home installation and specialized kitchens.

Our special purpose outlets yet have powerful 32A Turkish made disconnect switch for isolating power source at the time of installation or maintenance of the electrical range (complete disconnection of phase and neutral when switched off). This is very important benefit here and in Saudi Arabia - as some old electrical installations use two phases to obtain 220V operating voltage. The disconnect switch removes the two phases completely once it is turned off.

A red colored LED indication light will be energized once disconnect switch is turned to on position.

Selection Table

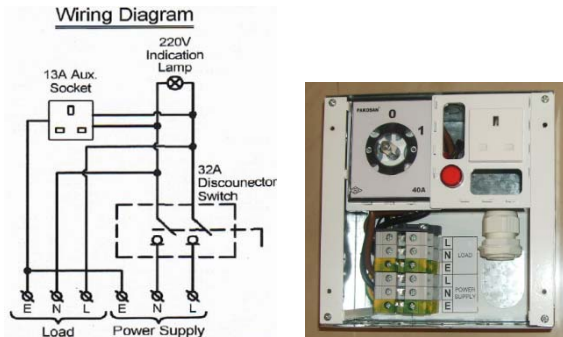
Operating Voltage	Number of Wires (Phases)	Power of Electrical Range	Current	SPO Model Number
220 V	Three Wires, 1 Phase	5.6 kW	30 A	SPO-32 -1
220 V	Three Wires, 1 Phase	7.5 kW	40 A	SPO-40 -1
220 V	Three Wires, 1 Phase	7.9 kW	42 A	SPO-63 -1
220 V	Three Wires, 1 Phase	8.3 kW	44 A	SPO-63 -1
220 V	Three Wires, 1 Phase	8.8 kW	47 A	SPO-63 -1
220 V	Three Wires, 1 Phase	9.9 kW	53 A	SPO-63 -1
220 V	Three Wires, 1 Phase	10.1 kW	54 A	SPO-63 -1
380 V	Five Wires, 3 Phase	5.6 kW	10 A	SPO-32 -3
380 V	Five Wires, 3 Phase	7.5 kW	13 A	SPO-32 -3
380 V	Five Wires, 3 Phase	7.9 kW	14 A	SPO-32 -3
380 V	Five Wires, 3 Phase	8.3 kW	15 A	SPO-32 -3
380 V	Five Wires, 3 Phase	8.8 kW	16 A	SPO-32 -3
380 V	Five Wires, 3 Phase	9.9 kW	18 A	SPO-32 -3
380 V	Five Wires, 3 Phase	18 kW	32 A	SPO-32 -3
380 V	Five Wires, 3 Phase	22 kW	39 A	SPO-40 -3
380 V	Five Wires, 3 Phase	35 kW	63 A	SPO-63 -3

We have used French made high quality and reliable terminal blocks to connect line side wiring (wiring coming from the distribution panel up to 16mm²) as well as load side wiring (vendor cable coming from the manufacturer of the electrical oven). Earth terminal blocks grant proper grounding for the load as well as for the chassis of the special purpose outlet itself.

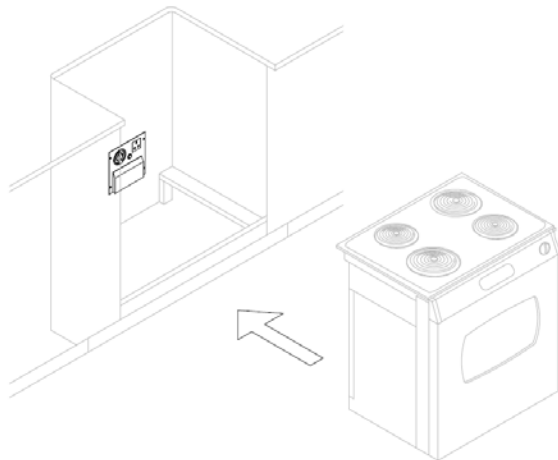
An auxiliary 13A socket is provide for feeding small loads which might come with the electrical range like internal lighting if any, grill rolling motor, hood extraction fan ... etc.

Vendor cable coming from the electrical range can be connected to the special purpose outlet

from down-side through special slot. It will be gripped then after via PG21 gland fit inside the special purpose box.



Below sketch shows typical installation for the SPO unit:



Thanks to the special slim design of SPO-32 in which overall projection from the wall surface (pavement) does not exceed 22mm. This small projection of the device makes life easy when installed behind the electric range, 30cm above floor level and never interfere with the electrical range back-side and or decoration.

First fix works for the special purpose outlet must use ELTRA alfanar 200X200X100mm steel box - readily available any were within local market. All the stuff of the special purpose outlet will be contained within this embedded ELTRA

box, exposed finishing will be very slim and tidy as can be seen within photo.

Steel skeleton, holding frame and stainless steel face cover were all tailored and manufactured locally using premium quality materials and finishing.

Important Electrical Instructions:

- * Always use and connect grounding conductor.
- * Disconnect power before removing stainless steel face-cover of the SPO unit.
- * Use the auxiliary socket outlet for feeding lamps or small exhaust fans ... never use auxiliary socket for feeding electrical range! Big connection terminal blocks were fitted inside for properly feeding the electrical range.
- * Collect enough data about your electrical range (rated power, operating voltage), know well what is the available power source at your home (voltage), and then refer to aforementioned selection table to choose proper SPO model number. If in doubt, seek assistance of a qualified electrician or service technician.
- * Remember always, failure to follow safety instructions might result in death, fire or electric shock.

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