



- Power Factor Protection or Compensation Control
- Lead (CAP) and Lag (IND) relay outputs
- Linear to Phase Angle
- Optional very fast analogue output signal proportional to Meter reading (<50mS), (F-version)

Specifications

Auxiliary Voltage:	100-120, 200-240, 380-415 or 440-460VAC, 40-70Hz (Fuse 0,5A)	
Optional Auxiliary Voltage:	24, 48 or 110VDC (Fuse 2A)	
Supply tolerance:	± 10%	
Power rating:	1,5VA	
Contact rating:	AC: 100VA - 250V/2A max. DC: 50W - 100V/1A max.	
Adjustments:	<u>Trip level:</u>	<u>Delay:</u>
LEAD:	1-0,5	0-30 secs
LAG:	1-0,5	0-30 secs
Scaling:	0,5 CAP/1/0,5 IND	
Analogue Output:	Up to 20mA, max 500R Up to 10V, min 100kohm	
Temperature:	-20 to +70°C	
Weight:	0,64kgs	
Front protection:	IP52 (IP65 optional)	

Description

The KPPF3x measure the power factor in single phase or balanced 3-phase systems.

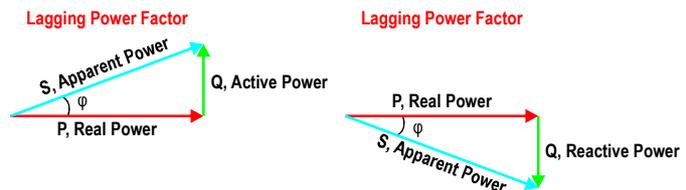
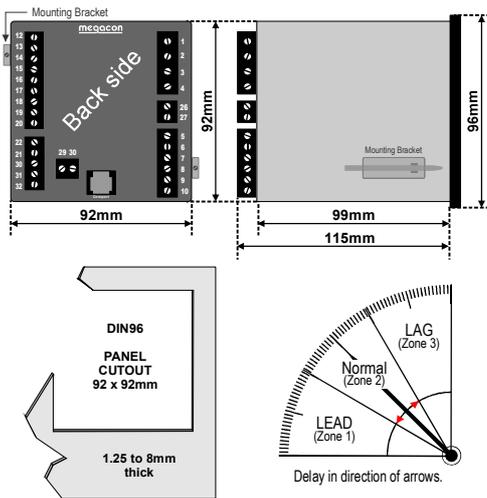
The unit gives analogue indication of power factor and has 2 relay outputs and a optional analogue output signal proportional to meter deflection 0,5 CAP/ 1 / 0,5 IND (F-version).

These output relays are configured for one in the lead sector and one in the lag sector. These can be used to control power factor compensation equipment or control and AVR via a suitable motorised potentiometer.

Zone 2 is the normal operational range. In zone 1, the load is capacitive and the trip value of the LEAD relay can be set over the range 1-0,5 LEAD. In zone 3, the load is inductive and the trip relay of the LAG relay can be set over the range 1-0,5 LAG. Both relays have an adjustable time delay of 30 seconds.

Red relay trip lamps flash instantly (approx. 1 flash per second) on passing a trip. The lamp changes state and the trip relay operates after the pre-set delay. If a trip condition ends during the delay interval, the timer will automatically reset.

Dimensions



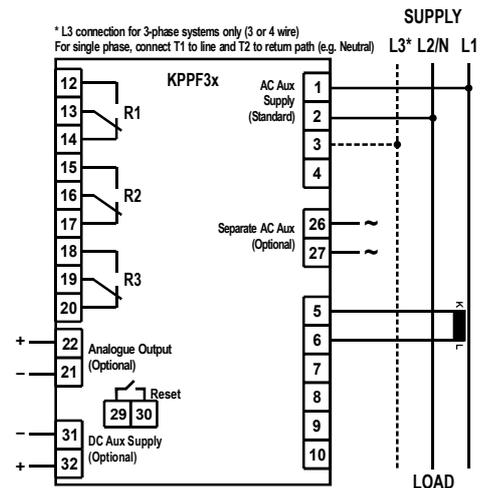
Relays shown de-energised.
Fail-safe relays energises when unit is powered.
(KPPF3E is the standard)

	LAG	LEAD	Fail safe	Latch
R1	✓		✓	✓
R2		✓	✓	✓
R3	✓	✓	✓	✓

Models	Latch	Output	Failsafe
KPPF3E	-	-	X
KPPF3F	-	X	X
KPPF3G	X	-	X
KPPF3GF	X	X	X
KPPF3H	X	-	-
KPPF3HF	X	X	-

Relay Reset
Any latched relay is reset by linking terminals 29 and 30 or by interrupting the voltage supply.

The MEGACON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication.



The unit meets EN 61010-1 Cat. III, Pollution degree 2 and the relevant environmental and EMC tests specified in EN 61326-2-4 to comply with the requirements of the major Classification Societies.

ORDERING EXAMPLE:
 Type: KPPF3F
 Aux. Supply: 200-240V
 Input: 150/5A
 Analogue O/P: 4/12/20mA

