

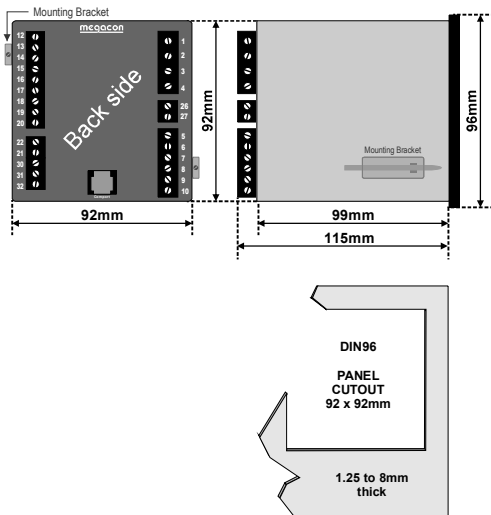


- Generator stator earth fault protection
- Winding insulation protection
- "Pathfinder" function eases faultfinding
- For use with 1A or 5A current transformers
- Fast analogue mA output (F version)
- Total processing time less than 50mS

## Specifications

Standard Auxiliary Voltage:	24, 48 or 110VDC (Fuse 0,5A)
Optional Auxiliary Voltage:	100-120V, 200-240V, 380-415V, 440-460 or 480VAC 40-70Hz (Fuse 2A)
Current Input:	1A CT or 5A CT, <0,1VA (class 0,5 or better)
Contact rating:	AC: 100VA -250V/2A max. DC: 50W -100V/1A max.
Adjustments:	
Trip level Warning:	0-100% of alarm trip level
Trip delay Warning:	0-30 secs
Trip level Alarm:	0-40% of I nom.
Trip delay Alarm:	0-3 secs
Analogue outputs:	Up to 20mA, max 500ohm (other on request) Up to 10V, min 100kohm
Temperature:	-20 to +70°C
Weight:	0.6kgs
Front protection:	IP52 (IP65 optional)

## Dimensions



## Description

KPC112E protects against phase-, earth- and winding faults within the protected area (the stator) of large AC generators. It detects even minute insulation punctures, flash-over carbon deposits and contamination.

The unit measures highest up differential current from antiparalleled CTs in a Merz-Price configuration, by comparing current levels at the end of each phase winding.

R1 is used for early warning. R2 or R3 (fail safe) is to be used for generator breaker trip, the "other" alarm relay can be used for local indication input to PMS, alarm system etc.

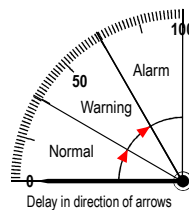
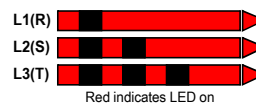
Alarm trip must be set sufficiently high to ensure that generator magnetisation current does not cause tripping. The alarm delay is to be set so that the initial inrush current have returned to normal level before the delay period elapses. The warning trip level and delay can be set as required to give early warning.

User settable trip levels and delays. Colour of LEDs indicates alarm status. LEDs flash during count-down. The meter and the triple-zone status LEDs at a glance gives the clear safety message: ALARM / WARNING / NORMAL

Fast response analogue output signal proportional to highest up current (KPC112F).

The "Pathfinder" function identifies the phase(s) causing the trip by the flashing pattern of the relevant LED(s).

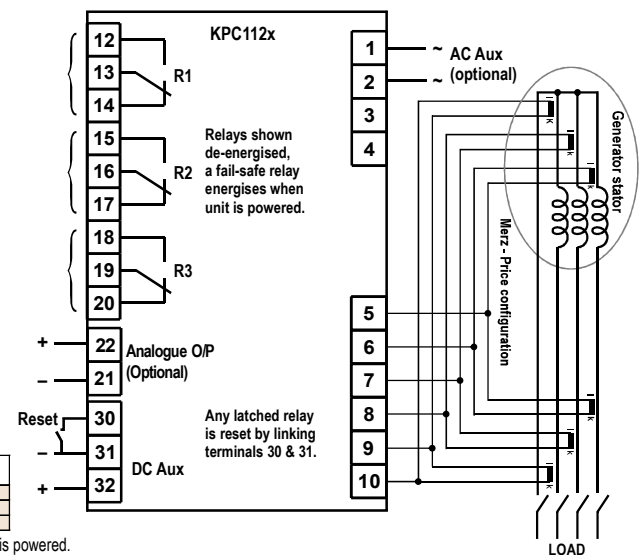
## Pathfinder Function



Models	Latch	Output
KPC112E	X	-
KPC112F	X	X

	Warning	Alarm	Fail safe	Latch
R1		✓		
R2			✓	✓
R3			✓	✓

R3 are fail-safe and energises when unit is powered.



The unit meets IEC60092-504 and the relevant environmental and EMC tests specified in IEC60068/60092 and IEC61000/60533 respectively, to comply with the requirements of the major Classification Societies.

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

**ORDERING EXAMPLE:**  
 Type: KPC112F  
 Aux. Supply: 24VDC  
 Input Current: 4000/5A  
 I nominal (100%): 2995A  
 Analogue O/P: 4-20mA

