SINGLE PHASE OVERCURRENT GUARD



- Single Phase Overcurrent Protection with Definite Time Trip Delay
- Two individually settable overcurrent relays
- For use with 1A or 5A current transformers
- Up to two individual very fast analogue output signals (<50mS), (optional)
- DIN96 Slave Indicator with full current scale (optional)

Specifications

FI

100-120V, 200-240V, 380-415V, 440-460V, 480VAC, 40-70Hz (Fuse 0,5A)
24-60VDC (Fuse 0,5A) 110-220VDC (Fuse 1A)
+10%, -20%
5VA
1A CT or 5A CT, <0,1VA
AC: 100VA -250V/2A max. DC: 50W -100V/1A max.
See table on the right
Any % of the CT value
mA: Up to 20mA, max 500R V: Up to 10V, min 100kohm (other on request)
mA: Up to 20mA, max 500R V: Up to 10V, min 500ohm (other on request)
Class 0,5
-20 to +70°C
0-95%
0.6kgs
IP21
UL94-V0

Description

The digitally controlled KCC101x series provides current overload protection of single phase generators or motors.

True RMS measurement not affected by heavily distorted waveforms provides highest up precision (1.0%) protection. Less than 50mS overcurrent detection.

User settable trip levels and delays. Colour of LEDs indicates alarm status. Alarm LEDs flash during count-down.

Up to two individual very fast analogue output signals (optional) proportional to a range (see page 2 for available outputs). The analogue output is isolated from the CT and auxiliary power.

Relay Configurations

R1 energises when trip level one (Overcurrent 1) is exceeded and R2 trips when trip level two (Overcurrent 2) is exceeded.

R3 is an extra status relay that energises if either alarm relay 1 or 2 is active and can be used for local indication, PMS input, alarm system input etc.

The relay operation is delayed in the arrow direction. Both trip levels can Independently and individually set over the scale range (0-150% FSD). The reset is instantaneous.

Hyster

Х

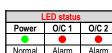
Х

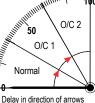
Relay	O/C 1	O/C 2	Fail Safe	Latch
R1	Х			*Х
R2		Х	Х	*Х
R3	Х	Х		*Х

Х

AND INSTRUMENTATION

R2 is fail-safe and energises when unit is powered. *X) See the table below for models with latch function





The unit meets EN 60255-27 Cat. III, Pollution degree 2 and the relevant environmental and EMC tests specified in EN 60255-26 to comply with the requirements of the major Classification

Related information:

Societies.

The KCC101x series are also available for panel mounting as KEC101x series.

Adjustme Hysteresi: O/C2: Hysteresi (FSD = Fi

CTRONIC CONTRO

Relays shown de-energised.

Models

KCC101E

KCC101FA

KCC101FB

KCC101GFA KCC101GFB

KCC101G

ents	Trip level	<u>Delay</u>
s	0-150% of FSD 2-50%	0-30secs
	0-150% of FSD	0-30secs
s	2-50%	
ull Sc	ale Deflection)	

www.megacon.com

Norway Denmark United Kingdom

REF: Datasheet.KCC101x - REV: 2.03/07.2022 © All rights reserved to Mages to the information at a

Alarm Normal Alarm

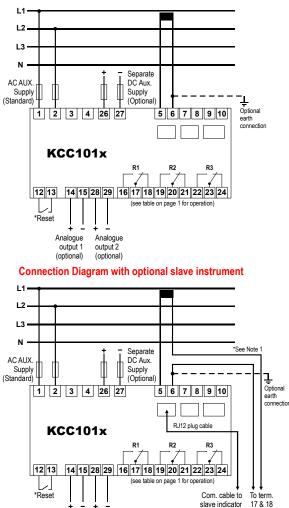
KCC101x

1**00**

KCC101x

Connection Diagram

Connection Diagram without optional slave instrument



*Note 1

Slave Ammeter input must be connected in serie with the C.T. input. *Reset

Analogue output 1

(optional)

Any latched relay is reset by linking terminals 12 and 13 or by interrupting the auxiliary voltage supply.

Analogue output 2

(optional)

Dimensions

75mn Mounting : 35mm Rail Mount EN 60715 Dimensions : 100mm x 75mm x 110mm П 100mm 85mm Slave Indicator Panel cut-out В à С Maximum pane DIN96 96 x 96mm 92 x 92mm 64mm 10mm thickness 10mm h 61mm 75mm ORDERING INFORMATION The MEGACON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication. Optional Separate Aux. Supply: Add -SD for models with Separate DC Aux. Supply. (Example: KCC101FB-SD) KCC101FB Type Aux. Supply : 200-240VAC Input Current C.T. · 1500/5A : 0-1.5/3kA Range Analogue output 1 : O/P3: 4-20mA : O/P18: 0-10VDC

slave indicator

Optional DIN96

slave indicator MCI960 1111 1

Norway Denmark United Kingdom

eggeon

www.megacon.com

Analogue output 2

ECTRONIC CONTROL AND INSTRUMENTATION

Analogue Output

The output signals are proportional to the meter reading (see page 1 for an overview of models and functions).

The signal is specifically intended as an input to a control system for monitoring or control.

Add suffix from table below to type designation to specify output required:

Outputs 1	l	Outputs	2
O/P1	0 - 10mA	O/P11	0-10mA
O/P2	0-20mA	O/P12	0-20mA
O/P3	4-20mA	O/P13	4-20mA
O/P4	N/A	O/P14	N/A
O/P5	N/A	O/P15	N/A
O/P6	N/A	O/P16	N/A
O/P7	N/A	0/P17	N/A
O/P8	0-10V	O/P18	0-10V
O/P9	0,2-10V	O/P19	0,2-10V
O/P10	4,3-20mA	O/P20	4,3 - 20mA
Relay Co	ntacts		
Burden on supply		: 170mW	per relay
Switching voltage (Max)		: 400V A0	C, 300V DC
Switching voltage (Rated)		: 250V A0	C, 30V DC
Max I continuous		: 6A RMS	5, 6A DC
Max breaking capacity		: 1500VA	AC, 18-120W DC
Dielectric	strength across		
Open contacts		: 1000V F	RMS

Connection

Terminal type Wire max.

Screw Torque

Overload Voltage

Current

: 1.2 x Un continuous 2 x Un for 10secs

: 2.5 x In continuous 5 x In for 1secs (max 25A)

: Terminal Clamp and Screw

other terminals: AWG 24-12

T26-T27: AWG 24-14, T5-T10: AWG 12,

: T1-T4.

: 0.5Nm



F

Innovation Beyond Tradition guely MEGACON, simpler it can't be