技术咨询和询价:010-68940148

# **CA30**

# **Current Amplifier**



- High output and compliance voltage
- Patent pending technology
- Designed for integration with FREJA 300 to boost power and capability

### 康高特-Megger CA30电流放大器介绍

The CA30 is a 3-channel current amplifier with a switched mode power supply capable of delivering up to  $3 \times 35$  A.

The DC-coupled design makes it suitable for acyclic generation.

In use together with FREJA 300 the CA30 can increase the current output from FREJA to 3 x 35 A or to 1 x 100 A, but also increase the output voltage at lower current, for example when testing electromechanical relays.

The CA30 is a differential amplifier with floating inputs. The differential amplifier design makes it possible to use CA30 even if there is a small voltage difference in the ground system between input and output.

Maximum output power is 250 VA per channel, and the maximum compliance voltage is 50  $V_{RMS}$ . The amplifier can generate 50  $V_{RMS}$  up to a current generation of 5 A per channel.

CA30, in combination with FREJA, allows the generation of six currents, which is convenient when testing differential relays. See the FREJA 306 data sheet for more information.



A FREJA 300 can easily be upgraded to a FREJA 306 by adding in the CA30.

#### **Current Amplifier**

## Megger.

#### **Specifications CA30**

The specifications are valid at an input voltage of 100 – 240 V and at an ambient temperature of +25°C (77°F) and at generated frequence of 50/60 Hz. Specifications are subject to change without notice.

#### **Environment**

The instrument is intended for use Application field in high-voltage substations and

industrial environments.

Temperature, operating 0°C to +50°C (32°F to +122°F) -40°C to +70°C (-40°F to +158°F) Temperature storage &

transport

Humidity 5% – 95% RH, non-condensing

Altitude (operational) 3000 m

Full duty cycle up to 2000 m. Duty cycle limitation based on internal over temperature protection for

altitudes >2000 m.

**CE-marking** 

2004/108/EC **EMC** LVD 2006/95/EC

General

Mains voltage 100 - 240 V AC, 50-60 Hz

1500 VA (max) Power consumption

Dimensions

446 x 55 x 395 mm Instrument

(17.6" x 2.2" x 15.6")

Transport case 535 x 140 x 520 mm (21" x 5.5" x 20.5")

Weight

Instrument 7,9 kg (17.4 lbs) Transport case 5,1 kg (11.2 lbs)

**Control input** 

Control voltage 0 – 6 Vrms SELV

To be connected to outputs fulfill-

ing IEC/EN 61010-1

**Monitor output** 

0 - 6 Vrms SELV Monitor voltage

To be connected to inputs fulfilling

IEC/EN 61010-1

**Current outputs** 

Voltage transients -2500 V transient level (to chassis) +

working voltage level (255 V) **Immunity** 

Working voltage 255 V

Not to be used on live circuits

Application

3-phase AC 250 VA,  $5 A < I \le 25 A$ (per phase)  $200 \text{ VA}, 25 \text{ A} < I \le 30 \text{ A}$ 

150 VA, 30 A < I  $\le$  35 A

1-phase AC 750 VA, 15 A < I  $\leq$  75 A 600 VA, 75 A < I ≤ 90 A (3 ch. in parallel)

450 VA, 90 A < I  $\le$  100 A

3-ch. DC  $3 \times \pm 20 A$ Compliance voltage ≤50 Vrms

Time limits

Continuous 3 x 20 A, 150 VA (max)

0.5 s on 1 s off repeatedly 3 x 35 A

Resolution 1.7 mA

Inaccuracy<sup>1)</sup> typical < 0.3% (of reading),  $0.5 A < I \le 35 A$ 

 $< 8 \text{ mA}, 0 \text{ A} < I \le 0.5 \text{ A}$ 

< ±0.2° Phase accuracy error1) Distortion (THD+N)2) < 0.4% typical 1) Values at max amplitude, 50% power and resistive load. 2) THD+N: Values at 25 A, 125 VA.

| Ordering information   |          |
|--|----------|
| Item   | Art. No. |
| CA30   | CA-29000 |
| <b>CA30</b> Including software FREJA Win and soft transport case | CA-29090 |
| CA30<br>Including software FREJA Win and hard transport<br>case  | CA-29091 |