# AC-Current Amplifier
# Type DCS 5000/T

*Applications:*
*Circuit Breaker testing*
*Coil testing*
*Magnetic field generation*
*Thermal testing*
*etc.*


## Top Facts:

- *Nominal power at cos phi 0 (inductive) … 1 … 0 (capacitive)*
- *High power efficiency >90%*
- *Current accuracy of 1% of the adjusted value*
- *Harmonic distortion < 1%*
- *Small dimensions*

## TECHNICAL DATA

| | |
|---|---|
| **Output:** | |
| *Continuous power:* [1)] | 5000VA at nominal current (800A range)<br>2000VA at nominal current (100A range) |
| *cos phi:* | 0 (inductive) … 1 … 0 (capacitive) at nominal power |
| *Nominal current:* | $100A_{rms}$ ($V_{max.}$:$20V_{rms}$)<br>$800A_{rms}$ ($V_{max.}$:$6V_{rms}$) |
| *Current accuracy:* | 1% of the adjusted value (10 … 100% of the current range) |
| *Efficiency:* | > 90% at nominal power |
| *Frequency range* | 45Hz … 100Hz |
| *Harmonic distortion:*<br>*(at nominal current)* | <1% |
| | |
| **Protection circuits:** | Overload<br>Open output<br>Overtemperature |
| | |
| **Control:** | Internal Control Unit DDS2<br>Front-Panel adjustment or IEEE-control |
| *Waveform:* | Sine |
| *Current range:* | 100A / 800 $A_{rms}$ |
| *Min. Current resolution:* | 14bit |
| *Frequency range:* | 45Hz … 100Hz / Resolution 100mHz |
| *Time measurement:* | 0000 … 9999 s<br>automatic Reset at current change |
| | |
| **Interface:** | IEEE488<br>Optical CAN (for parallel operation only) |
| **Power Supply:**<br><br>*Protection:*<br>*Contactor type:* | 230V/400V<br>(+10% -10%, 50Hz … 60Hz)<br>3x16A<br>CEE |
| **Ambient temperature:** | 0°C up to +40°C |
| **Housing:** | 2x19”-unit, colour light grey (RAL 7035) |
| *Dimensions:* | 2x(4U)<br>each 178x483x600mm |
| *Weight:* | Approx. 160kg |
| | |

*Remarks:*

1) Nominal Power at 230V supply voltage at 22°C