

YOUR ENTRY TO:

- FULL 4Q GRID SIMULATION
- HIL MODELLING
- 4Q AC AMPLIFIER APPLICATIONS
- COMPLEX ELECTRONIC LOAD



TC.ACS PROGRAMMABLE AC SOURCE-SINK SERIES

THE MOST ATTRACTIVE ALL-ROUNDER

4Q HIL APPLICATIONS

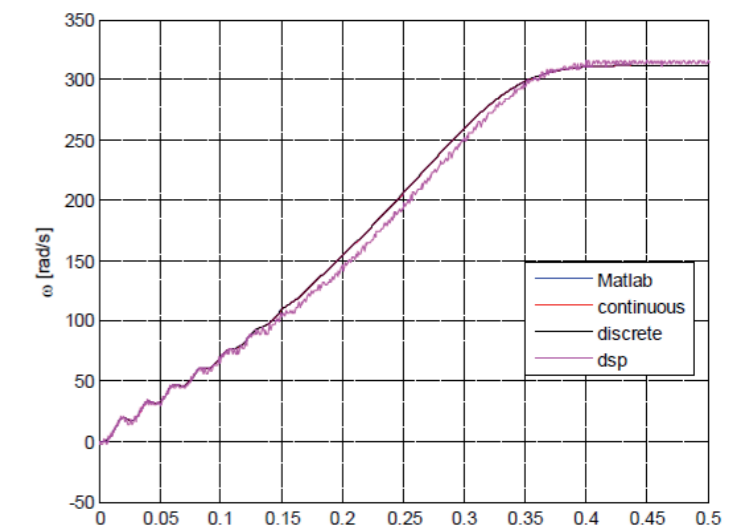
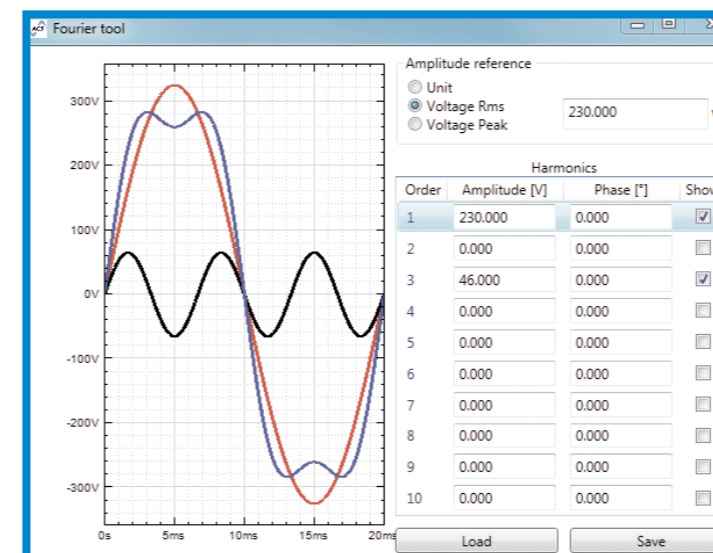
ADVANCED MODELLING IN REALTIME



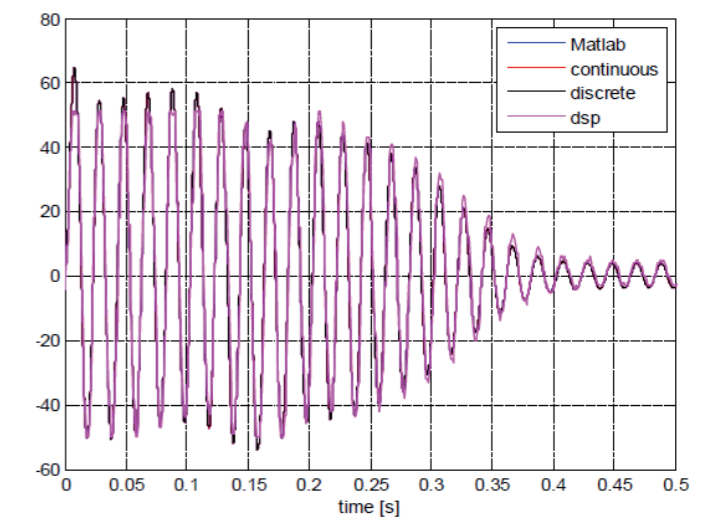
Versatile GridSim application software



- Full 4 quadrant regenerative Grid Simulator
- Full 4 quadrant hi-speed Amplifier mode
- Self-contained RL load mode
- Fully supported HIL mode
- 30 or 50 kVA power modules
- Up to 1 MVA system power
- 5 kHz modulation bandwidth



Mechanical Speed



Stator current

Perform multifunctional
4Q Grid Simulations
e.g. LVRT

Model even complex 4-pole
functional blocks in Real Time:
Startup of a wound rotor Induction Machine

TECHNICAL DATA TC.ACS 30 kVA AND 50 kVA BASIC UNITS

| Technical data | TC.ACS.30.528.4WR.S | TC.ACS.50.528.4WR.S |
|--------------------------------------|--|-----------------------|
| Grid input voltage range | 3 x 360-528 VAC + PE (no neutral) | |
| Grid frequency range | 48-62 Hz | |
| Grid input phase current, feeding | 3x52 Arms @ full load | 3x85 Arms @ full load |
| Grid input power factor | 1 | |
| Sim output topology | 3L + active N (4 outputs) | |
| Sim output voltage | 3 x 0-305 Vrms nominal (L-N) | |
| Sim output phase current (permanent) | 3 x 0-43 Arms | 3 x 0-72 Arms |
| Sim output frequency range | 0-1000 Hz; current derating between 0 and 16 Hz | |
| Operation modes | 4 quadrant generator / 4 quadrant amplifier / RL load mode | |
| Module power | 30 kVA | 50 kVA |
| Overloadability | 200 % Inom up to 1s every 60s 150 % Inom up to 10s every 600s | |
| Sim port power factor | 0 ...1 | |
| Modulation bandwidth | 5 kHz (up to the 83rd harmonic at 60 Hz) | |
| Voltage control | < 0.1% FS | |

MODULAR CONCEPT FROM 30 kVA TO 1000 kVA



REGATRON
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