Hitec rotary Ride Through system

Electric power problems annually cost industry hundreds of billions in estimated lost data, material and productivity. Hitec's Ride Through systems are developed to reduce downtime of your critical processes to a minimum while keeping the investment low. If you have critical processes Hitec Ride Through systems can save you a lot of trouble and money.

Hitec Ride Through systems have been developed to bridge short interrupts in the mains voltage. It provides minimal 15 seconds of Ride Through power at full load, (30 seconds at half load), which is sufficient to overcome the majority of power disturbances, such as voltage sags and surges. The Hitec Ride Through system bridges easily the gap between a power outage and the time required to switch to GENSET power. Apart from bridging mains interrupts, this system also behaves as a continues power conditioner.

Cost of ownership of a ride through solution is low compared to static UPS systems. A Hitec Ride Through system will be a profitable investment, even in processes were the costs/risks of downtime are moderate.

Applications

- Customers who have already sufficient back up power from gensets (power generator) who want to close the gap between a power outage and the starting of the genset. In these applications the Ride Through system provides quality power for your mission critical processes and avoid downtime.

- On locations were power supply and power quality are very reliable. Power outages or mains disturbances are limited in number and time. In many countries statistics show that > 95% of power disturbances have duration of max a few seconds. Depending on the uptime requirements 15 – 30 seconds ride through time will save you money because you reduce the number of process interruptions by 95%. Investing in Diesel UPS capacity is not required because the duration of power interruptions are limited.

Main Characteristics of Hitec rotary Ride Through system

- No loss of power for mains failures 15 - 30 sec.
- In mains operation the system operates as a harmonic filter and maintains the output voltage at a constant value. So the Ride Through system behaves as a power conditioner.
- In case of short circuit of RT-input, the output-voltage will be maintained.
- Variations in the mains voltage will not influence the Ride Through output voltage.
- In case of a short circuit on the load, the Ride Through output can produce a high level of short-circuit current to activate the load's protection-system.
- Ride Through systems can be connected in parallel to obtain larger outputs.
- Ride Through system improves power factor at its input so saves you costs.
- 50 years of proven technology

Type ratings 400 / 480 V 50Hz/ 60Hz	RT 400	RT 750	RT 1250	RT Parallel
System power (load) [kVA]	400	750	1250	System power x units
Active power (load) [kW]	320	600	1000	Active power x units
Power factor (load)	Between 0,8 inductive and 0,9 capacitive			
Rated voltage [V]	400/480 up to 22KV			

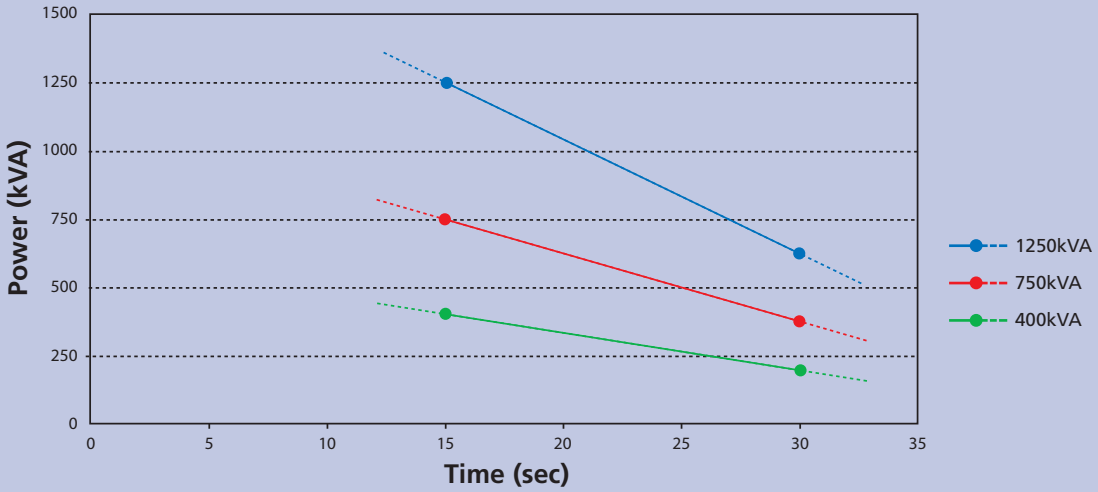
Input Data

Voltage	400V / 480V ± 10% 3 phase 4 wire
Power factor	0,95
Frequency	50/60 Hz ± 1,5 %
Starting current	≤ 10% x I nom

Output Data

Ride through time	15 sec. 100% load 30 sec. half load (longer time on request)

Ride Through Output Ratings versus Ride Through Time



Voltage (static)	as per mains
Voltage (dynamic)	± 10% at 100% load step (pf 1,0)
Regulation time	≤ 250 ms (50% load step) ≤ 1000 ms (100% load step)
Voltage THD	3,5% (phase-phase with linear load)
Frequency	according to mains input frequency
Overload capacity	1hr 110% ,10 min. 120%, 1 min. 150% (at mains operation)
Voltage symmetry	± 2% @ 20% unbalanced load
Fault clearing capacity	> 10 x I nom
Efficiency	> 96%

General Data

Cable entry	bottom entry (optional top entry)
Ambient temperature	0 °C - 40 °C
Altitude	max 1000 m
Degree of protection	IP21
Recharge time (Full load)	15 min. (1 min. recharge time for 1 sec. mains failure)

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