



QUICK REFERENCE (QUICK START DOCUMENT)

Volt

course	fine
- +	-2.5% +2.5%

Stability

P_{prop. gain}

Int. time
(Dip 3)

Underspeed

F knee **F** **F knee**

40Hz 60Hz

Dip4 off : underspeed enabled, Hertz: Tr/min

Drop

D

0% 100%

DIP switches

4: on is underspeed disabled
3: Increase I-action
2: Half phase sensing voltage
1: Short terminals S & T
Shown are factory settings

J1 CT Droop selection

S1-S2	S1-S2
In : 0,5 A	In : 1 A

Stability P&I

overshoot

Prop. Gain

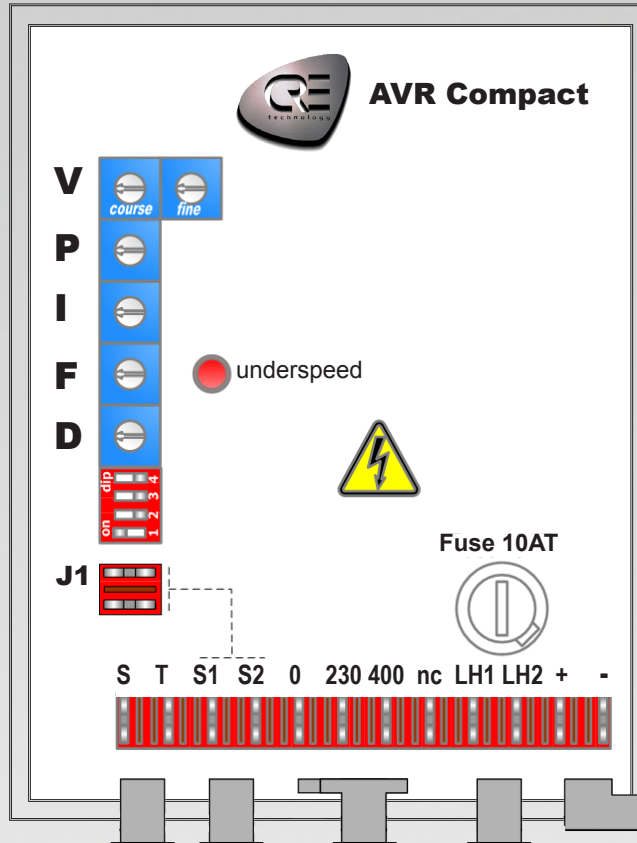
Int. Time Dip 3 : (x 2)

Recovery time

Time →

Stability adjustments must be performed by an expert.
Lower supply voltages result in better stability

@ excitation currents << 100mA, a parallel resistor for E+&E- may improve stability



General

Voltage regulator
For three or single phase generator.
12.5 Amp filed current.

Before commissioning:

Generator isolation-value must be > 1 MΩ

Min. field resistance 2 Ω

Self excited from 3,5 Vac (LH1-LH2)

Never break excitation output +,- during operating.

Parallel operation CT:

CT Droop Phase V
P1 S1

Phase sequence
U → V → W

Ext.

0 kΩ: 0V
10k:45V_{ac}

CT

S1

phase V/L2

Droop CT for Parallel operation CT in Phase V rotation clockwise

U V W

S1-S2

In : 0,5 A

S1-S2

In : 1 A

Sensing

400-480V gen.
N U V W

-230V-

Three or single phase
400-480V gen.
U - 400V - W

U V W

400-480V gen.
1/2U - 200V - 1/2W

115-230V gen.
N 1/2U -115V-

U V W

Three or single phase
rotation clockwise

Supply voltage

shunt stator phase

Auxiliaires winding

pmg

Transformer Generator-supplied

Supply Voltage
100-295 Volt ac,
50-100 Hertz

Output

E+ E-

max. 35% of supply voltage
LH1-LH2
12,5 Amp.
R > 2 Ω

If field forcing
Use an isolated battery

Output +,- is at phase potential