

A photograph of several white wind turbines in a field under a blue sky. The image is partially obscured by a dark blue curved graphic element at the bottom.

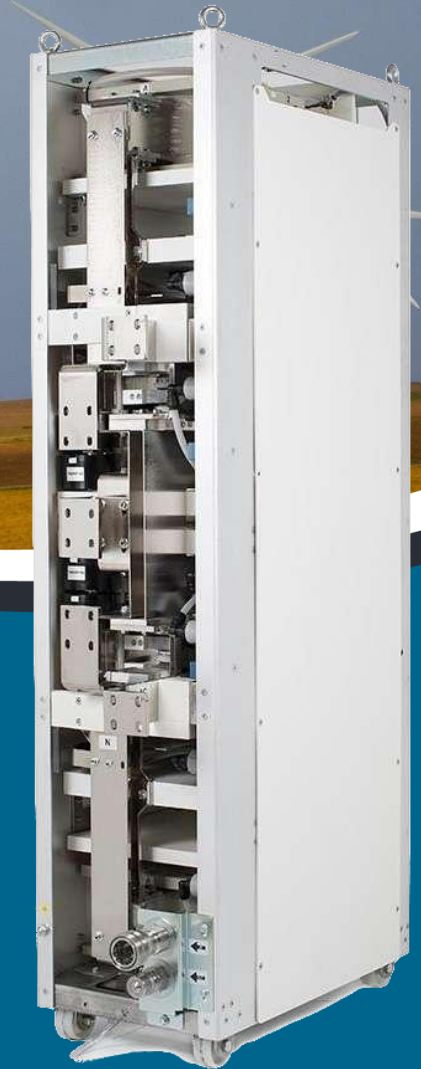
SECOM

Power Electronic Equipment & Components



SECOMDrive

Medium Voltage IGCT Drives



SECOMDrive IGCT Drives



**MV MULTILEVEL DRIVES
BIG POWER, BIG FLEXIBILITY!**



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SECOMDrive IGCT Drives - Introduction

Description:

SD.MT.V33.GCT – 3 Level MV NPC IGCT type

- Hi-demanding and hi-performances 4 quadrants drives applications
- Water cooled converters ranging from 10 to 15 MVA
- Single & multidrive configuration, up to 3.3 KV of rated motor voltage

Market application:

- Fast Finishing Blocks & Sizing Stands
- Rev. Mill Stands for Flat & Long Products
- Coilers
- Edger
- Shears
- Piercing & Pilgrim Mill

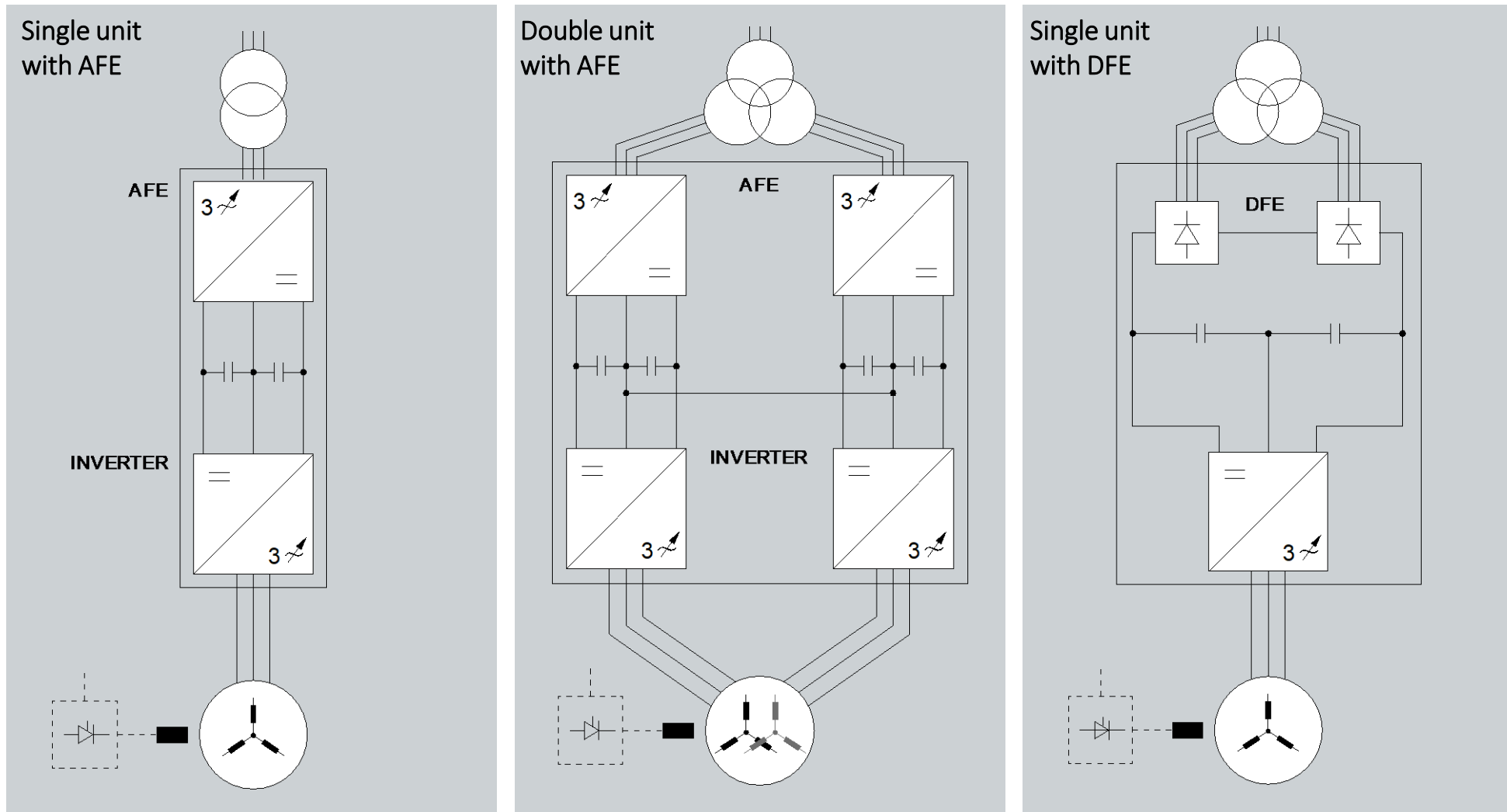


SECOMDrive IGCT Drives - Ratings

Parameter name	15 MVA	12 MVA	11 MVA	10 MVA
<i>Base continuous current to apply maximum overload [Arms]</i>	1900	1500	1350	1250
<i>Maximum overload current [Arms]</i>	2650 ($T_{\min} = 100 \mu\text{s}$) 2330 ($T_{\min} = 40 \mu\text{s}$)	2100	1890	1750

SECOM Drive MV IGCT Drives

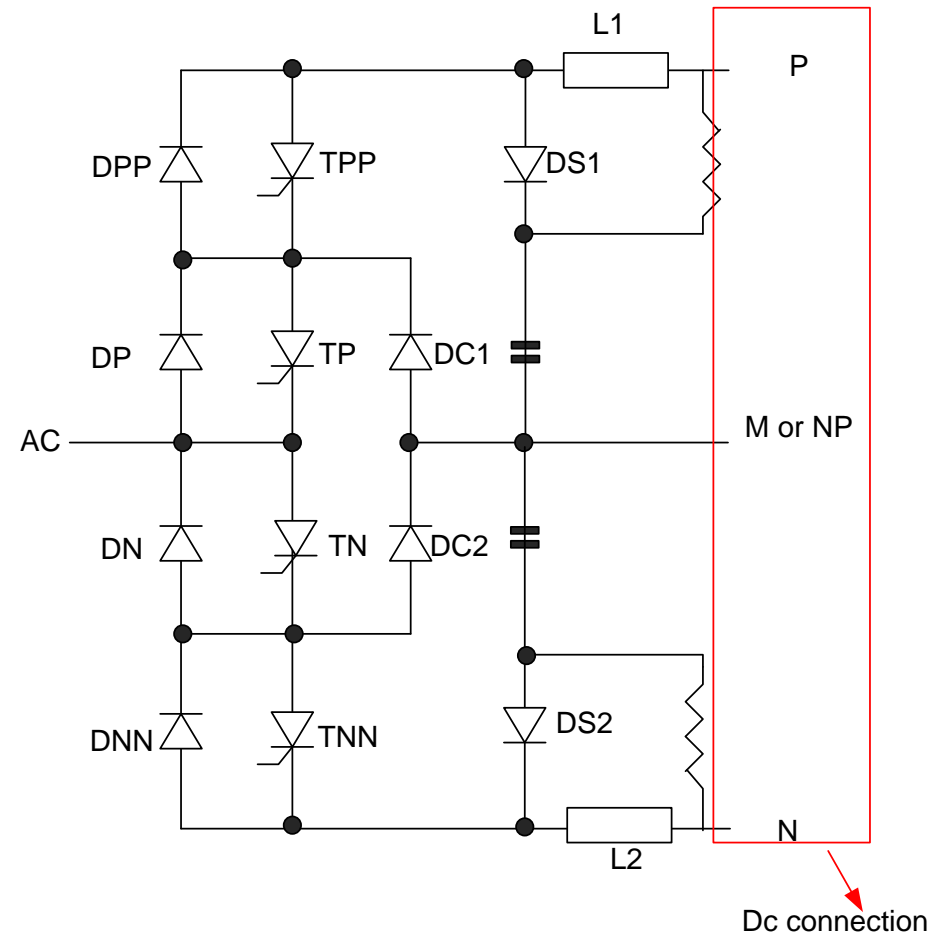
Basic single drive configurations



SECOMDrive MV – IGCT phase module

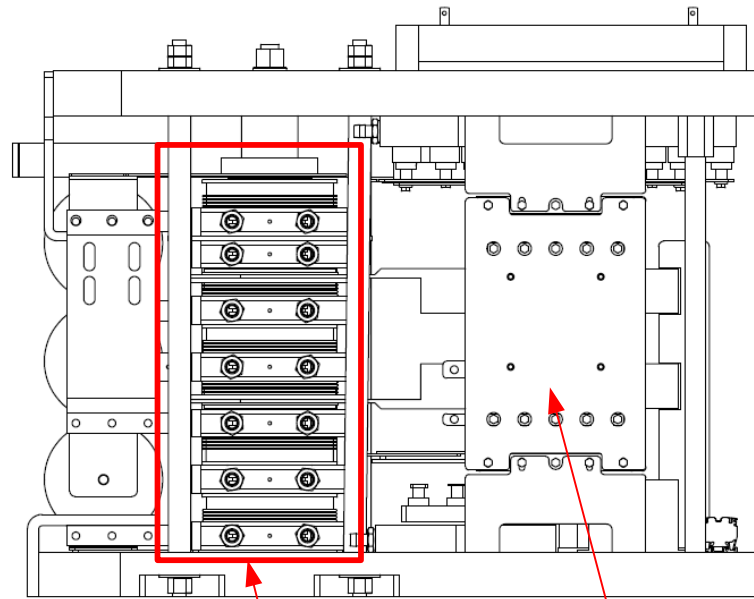
SD.MT.V33.GCT phase modules are supplied as power modules only, firing commands must be provided by an external control unit.

Name	Description
TPP, TP, TN, TNN	IGCTs
DPP, DP, DN, DNN	Diodes for free-wheeling
DC1, DC2	NPC Clamp diodes
DS1, DS2	di/dt Clamp diodes
L1, L2	Upper and lower di/dt limiting reactor



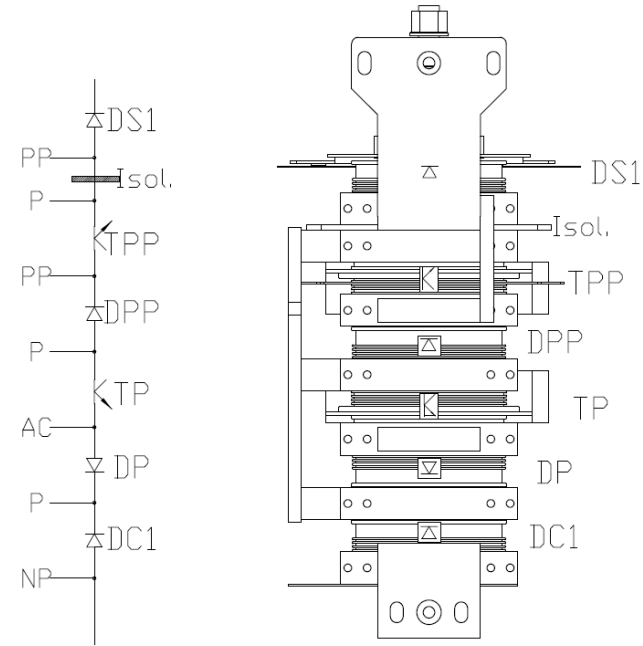
SECOMDrive MV IGCT Drives

Upper Semistack

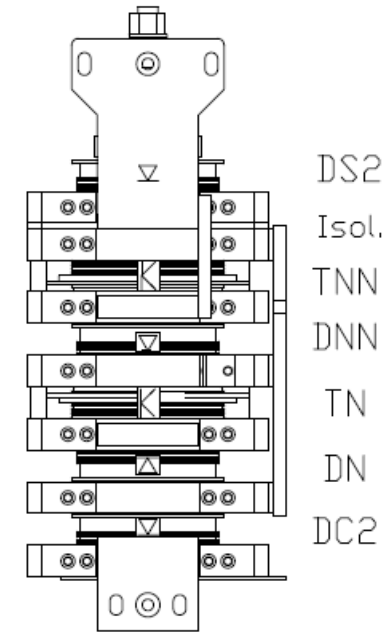
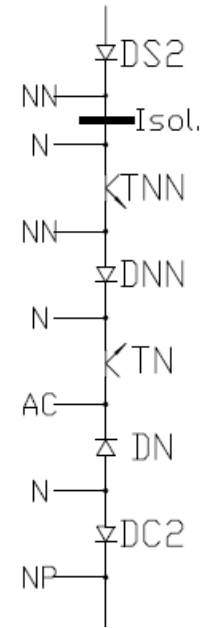
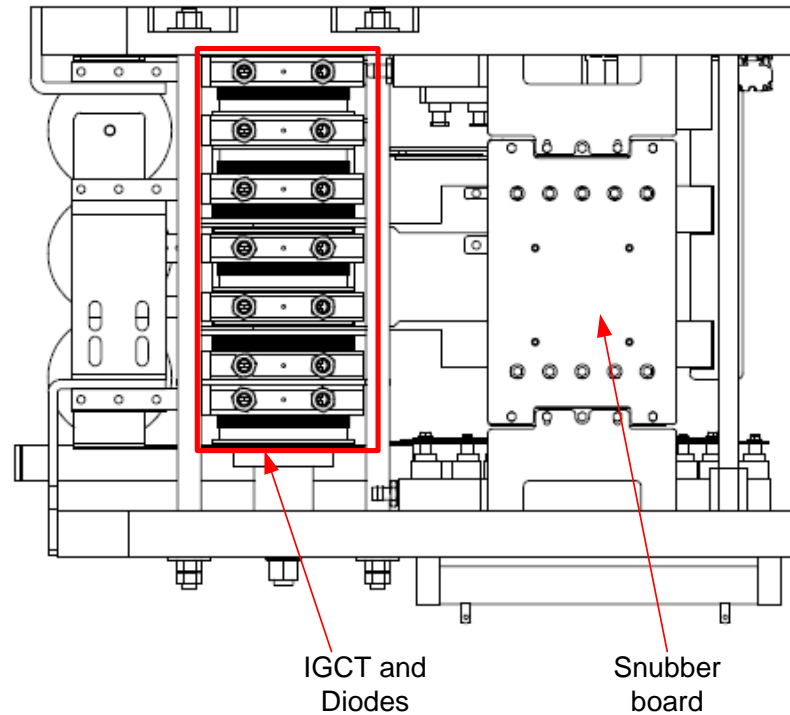


IGCT and Diodes

Snubber board



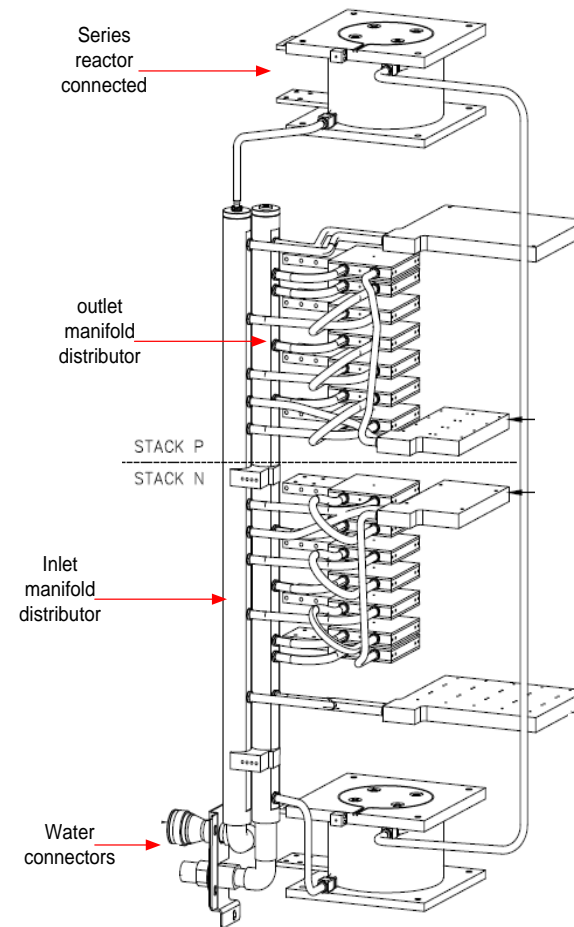
SECOM Drive MV IGCT Drives Lower Semistack



SECOMDrive MV IGCT Drives

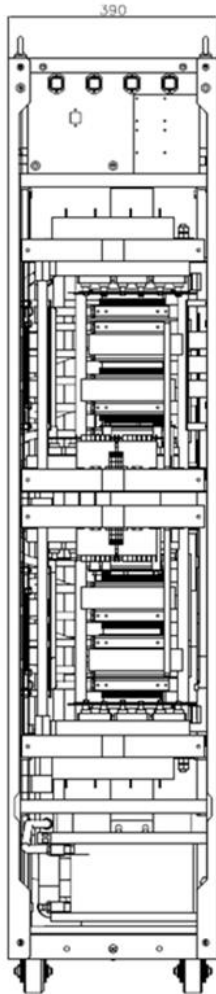
Hydraulic circuit

Cooling system	
Parameter	Value
Volume	3 L
Flow	> 100 L/min and < 110 L/min
Operating pressure	5 bar
Pressure drop	4.2 bar @ 100 l/min
Maximum Operating temperature	40 °C
Minumum Operating temperature	20 °C
Water type	Distilled
Water Maximum conductivity	7 μ S/cm
Water ph	7÷8
Water hardness	3÷10 °dH
Chloride (Cl)	< 300 mg/l
Copper (Cu)	< 0.1 mg/l
Undissolved particles	< 5 mg/l



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Interface connectors



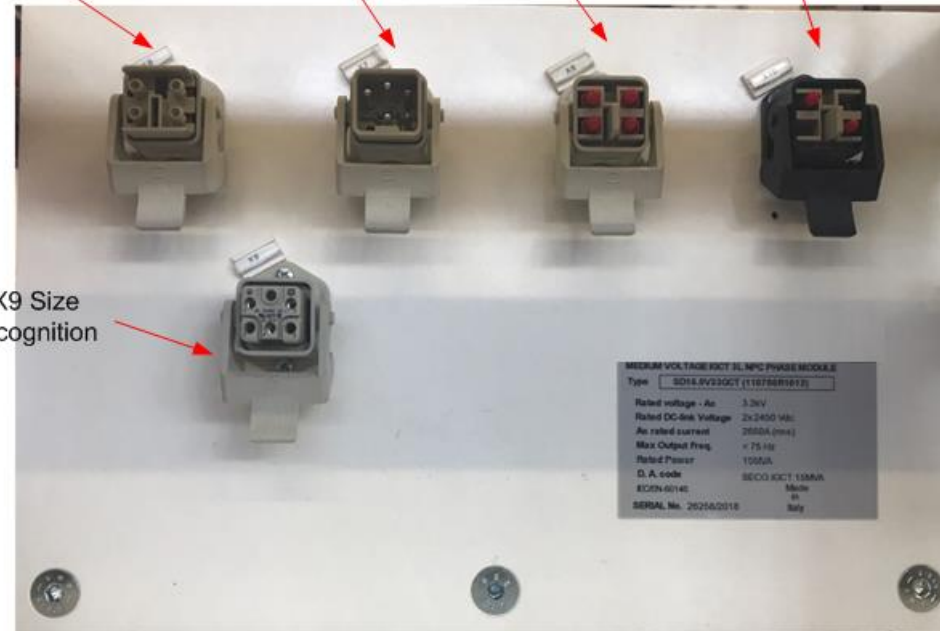
X6 connector (TPP and TP commands and monitoring)

X7 supply

X8 connector (TN and TNN commands and monitoring)

X10 connector (TN and TNN commands and monitoring)

X9 Size recognition



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