DAB: Transformer Saturation

Series Resonant Converter
DAB vs SRC

R. Lenke, F. Mura and R. W. De Doncker, "Comparison of non-resonant and super-resonant dual-active ZVS-operated high-power DC-DC converters,"
DAB vs SRC: Conclusions

DAB
+ Smaller resonant tank
+ Smaller RMS currents
+ Wider Soft-switching range

SRC
+ Can be designed with larger XF inductance
+ Lower AC winding losses
+ Reduced device turn-off losses

R. Lenke, F. Mura and R. W. De Doncker, "Comparison of non-resonant and super-resonant dual-active ZVS-operated high-power DC-DC converters,"
Complete State Plane – Phase Shift Modulation

State Plane Solution
Averaging Step