Medium Voltage Variable Frequency Drive

GBP-D Compact design and high performance

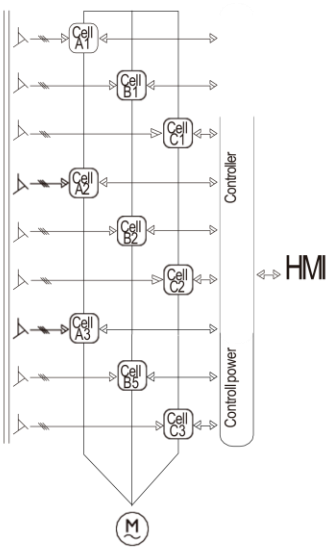
Multi-level features

- Very low levels of input current harmonics with high input power factor.
- Sinusoidal current output to motors – no significant temperature rise in the motor due to current harmonics.
- No significant motor shaft torque pulsations – kind to shaft coupling and mechanical load.
- Lower dV/dt voltage stress imposed on to the motor and cable insulation systems.
- Lower amplitude of PWM switching at the output significantly reduces potential transmission line effects when long output cables are used to the motor.
- Lower amplitude and frequency of PWM switching at the output significantly reduces potential for stray currents through the motor bearings.
- Use of low-voltage IGBTs which are easily obtainable, highly reliable and well-proven.

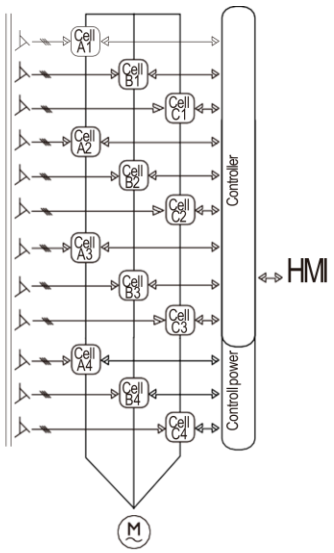
- Low losses since IGBTs do not need snubber circuits and require little switching power.
- Current can be switched off instantaneously in the event of a fault in the output circuit.
- Modular design.
- Medium voltage output achieved without output transformer

GBP-D Multi-level topology

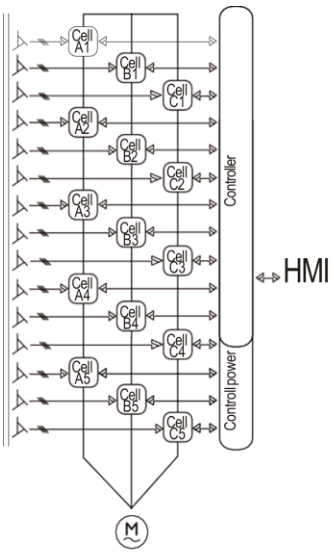
3/3.3kV VFD System



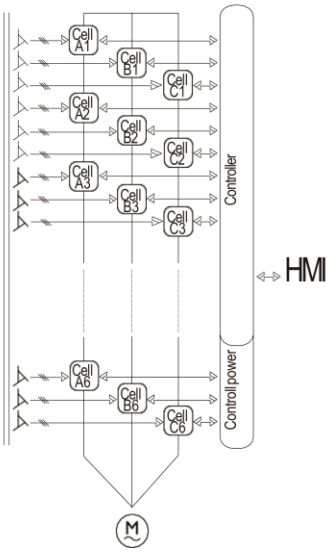
4.16kV VFD System



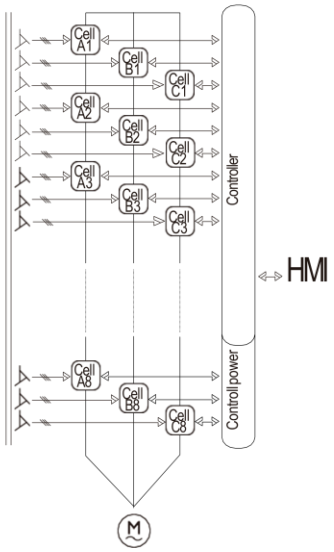
6/6.3kV VFD System



6.6kV VFD System



10kV VFD System



11kV VFD System