

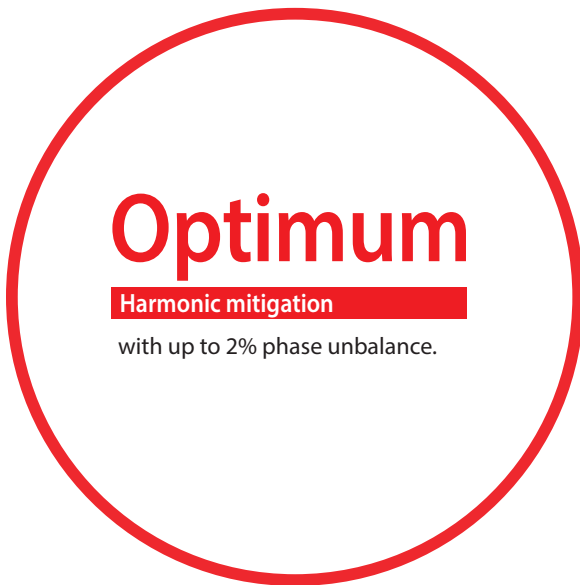


Danfoss 18-Pulse Drive Solution

Compact, cost-effective and completely integrated system solution for applications requiring enhanced harmonic mitigation. Packages seamlessly combine the reliability and advanced performance of the VLT® Series Drives with Best in Class 18-pulse harmonic reduction technology. The result is a complete solution from the supplier you trust.

Low Harmonic Solution Benefits

- Meet IEEE 519-1992 at drive input terminals
- Help meet IEEE 519-1992 at the system level
- Improved total power factor
- No external filters or transformers needed
- Improves overall electrical system efficiency



Product Range
■ 460-480vac +/-10%
■ 15 to 1350 HP
■ -10° to +40° C (14°-104° F) ambient

Enclosure Options
■ Wall and floor mounted panels with NEMA UL Type Ratings 1, 12, and 3R

Package configurations
■ Main fused disconnect
■ Main fused disconnect, VFD fusing, 3-contactor bypass, advanced relay logic including: common start / stop, automatic bypass on failure, run permissive circuit, and under voltage protection in bypass
■ Add an optional reduced voltage solid state soft starter to any bypass configuration

VLT® AQUA Drive

VFD output,
input and bypass
contactors



Separate bridge
rectifiers and
fusing for
improved
performance

Transformer and
balancing reactor
matched and
tested for
optimum
performance.

Best In Class Designs:

Each drive comes completely assembled in a free standing enclosure labeled as conforming to NEMA 1, 12, or 3R environmental protection as required by the installation. Units require simple four-wire-in and four-wire-out power connections. The entire package is rated as UL 508A Industrial Control Panel.

All drives include three 6 diode bridge rectifiers. These rectifiers are separate from the VFDs standard 6-pulse bridge to ensure appropriate load sharing and harmonic reduction. Input to the rectifiers is an auto-transformer with the following design criteria:

- Automatic shutdown with phase loss.
- Integral high impedance line reactor matched to the transformer by the transformer manufacturer to ensure optimum performance.
- Advanced design technology for peak harmonic performance with up to 2% phase unbalance. Other design topologies have a tighter performance range for voltage unbalance, typically specified as no more than 1/2% unbalance.
- Thermal switch on each transformer coil.

www.danfossdrives.com

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