Drives and Controls

Maximum reliability with redundant drives?

Certainly.



Critical facilities need reliable operation of their equipment and systems. Our cabinet built drives solution incorporates all required components for full redundancy in critical processes.

ABB redundant drives offer the best solution for your most crucial system requirements. Each component of the lead drives line up is carefully selected and integrated for maximum reliability. In the exceptional event of lead drives failure, the critical load will be seamlessly transferred to an identical standby drives line up without having to be shut down, achieving zero downtime.

Seamless transfer

Upon lead drives fault, the redundancy sequence controller automatically transfers the load to the standby drives.

Zero downtime

The faulty drives can be isolated and replaced without shutting down the critical load.

User friendly interface

- Lead/standby drives selection
- Drives status diplay: Ready, Running, Stopped, Fault
- Trending of parameters such as motor current, speed, power
- Fault logger

Customer interface

- Hardwire lead/standby drives selection
- Hardwire Start/Stop/Estop control
- Ethernet fieldbus communication for control and monitoring

Power and productivity
for a better world™

Redundancy solution with drives

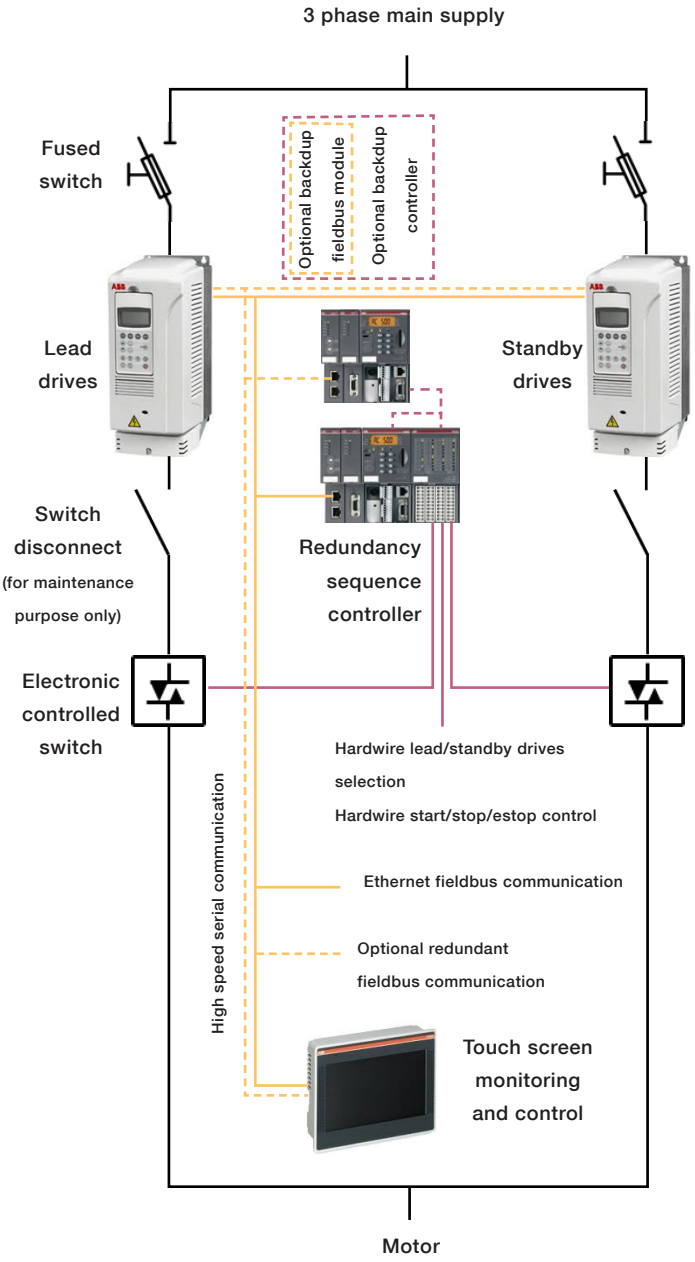
Optional features

Backup controller

In the exceptional case of redundancy sequence controller failure, the backup controller will take over seamlessly.

Customer connection

- Fieldbus communication (Profibus, Modbus)
- Redundant fieldbus communication



Main connection	
Voltage	3-phase + earth; 400, 480, 690 VAC +/- 10%
Frequency	48 - 63 Hz
Power factor	0.93 - 0.95
Efficiency	97.5%
Protection	Fuse
Motor connection	
Voltage	3-phase; 400, 480, 690 VAC
Frequency	0 to 300 Hz
Power	1.5 kW to 160 kW
Internal circuitry	
Wiring colour coding	L1-brown, L2-black, L3-grey, N-blue Single phase - brown and blue DC - brown and grey
Control voltage	230 VAC, 24 VDC
Environmental limit	
Ambient temperature	
Transport	-40 to 70°C
Storage	-40 to 70°C
Operation	-15 to 50°C, no frost allowed 40 to 50°C at reduced output current (1%/1°C)
Cooling method	Dry clean air
Altitude	0 to 1000m from sea level 1000 to 4000m, with reduced output current (1%/100m)
Relative humidity	5 to 95%, no condensation allowed
Protection class	IP21 as standard IP54 as option
Paint colour	RAL 7035
Contamination levels	No conductive dust allowed

For more information please contact:

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