



Outline Specification – LAB Series Inverter

	Single variant to cover PM motor drive or PM generator interface applications
Versions	Existing model rated up to 200kW, designs for 500kW model
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	Wall-mountable module (830mm x 410mm x 404mm)
Package	Glands for power cables
i uonugo	Unions for liquid coolant
	Motor drive or generator inverter, both 4 quadrant
Functions	Three-phase PWM output
	Sophisticated control algorithms
	Resolver or absolute encoder feedback
	CAN used for control inputs and status outputs – with additional hardware interlocks
	Fully isolated user interface
	Ground Fault Indication
	Complete system node, includes contactors/pre-charge
	Up to 610V DC link voltage (nominal)
Rating	Up to 200kW continuous @ 610V DC voltage
	Up to 500kW version in design
Control	Torque/speed control as a motor drive
	Voltage control as a generator interface
	Real-time mode and function switching
	Flexible multi-variable limiting
	Dynamic derating
	Real-time parameter update
	Actual termus DDM machine angle
Status outputs	Actual torque, RPM, machine angle
	Actual DC link voltage and current
	Operational state
	Machine and inverter temperatures
	Top level fault and warning flags
	GFI state
	Hardware status
	Extended data sets on demand
	Separate diagnostic CAN
	CAN
Interface to higher-level controller	Hardware enable
	Dual status lines
	Configuration interlock
	24V DC main supply
	24V DC contactor supply
	RS232 available
	KSZSZ avaliable
Interface to	3-phases
electrical	Resolver/encoder
machine	6 thermistors
Connectors	Deutsch DRC 64 pin
Support	PC Monitoring tool with comprehensive data display and logging functionality
Support	Excel macros to plot logged data
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