

BALDOR • RELIANCE

Series 15H Washdown Inverter

**3/4 thru 15 Hp
3/4 thru 15 Hp**

**230 VAC
460 VAC**

**3 Phase - 50/60 Hz
3 Phase - 50/60 Hz**



Applications: Constant torque, variable torque or constant horsepower applications. New installations, replacements and original equipment manufacturers. (OEM). Suitable for frequent washdowns.

Features: NEMA 4X enclosure as standard. Output frequency 0.25 to 400 Hz with peak overload capacity of 200%. Separate accel/decel rates and controlled reversing. Built in two and three input PID process control loop.

Design Specifications

- Process follower 0-5VDC, 0-10VDC, 4-20mA
- Free run or ramp stop
- Selectable preset speeds
- Jog speed
- Dynamic braking
- DC injection braking
- 2 analog meter outputs
- 2 opto isolated output
- 2 relay outputs

Operator Keypad

- Forward/Reverse command
- Motor RUN and JOG
- Local/Remote key
- Stop command
- Parameter setting and display
- 32 character display
- Remote mount to 100 feet (60M) from control
- NEMA 4X enclosure when mounted on panel

Environmental and Operating Conditions

- Input voltage
3 phase 200-240 VAC±10%
3 phase 378-480 VAC ±10%
- Input frequency
50 or 60Hz ±5%
- Service factor - 1.0
- Duty - continuous
- Humidity - 100% max RH
- Altitude - 3300 feet (1000m) max without derate

Protective Features

- Selectable automatic restart at momentary power loss
- DC bus charge indicator
- Fault indicator
- Adjustable time based overload
- Cause of last 31 trips retained in memory
- Digital display for fault conditions
- Isolated control circuitry

Output Ratings	Overload Capacity	150% for 60 seconds; 170-200% for 3 seconds for constant torque 115% for 60 seconds for variable torque
	Frequency	0.25-120 Hz optional 0.25-400 Hz
	Voltage	0-Maximum input voltage (RMS)
Input Ratings	Frequency	50 or 60 Hz ± 5%
	Voltage	180 - 264 VAC; 340 - 528 VAC
	Phase	Three phase (or single phase with derate)
	Impedance	3% minimum required for size A, B
Control Spec	Control Method	Sinewave carrier input, PWM output
	PWM Frequency	Adjustable 1-5 kHz standard, 1-15 kHz quiet
	V/Hz Ratio	Linear to squared reduced, base frequency, output voltage, minimum frequency limit, maximum frequency limit
	Torque Boost	0-15% of input voltage; automatic with manual override
	Brake Torque	20% standard on -E and -W
	Skip Frequency	Three zones 0-Max frequency
	Frequency Setting	0-5 VDC, 0-10 VDC, 4-20mA, digital via optional RS232/485
	Accel/Decel	Separate accel/decel rates, 0-3600 sec to maximum frequency
Protective Functions	Inverter Trip	Over voltage, over current, under voltage, external trip, heatsink thermal, motor overload
	Stall Prevention	Over voltage suppression, overcurrent suppression
	External Output	OPTO isolated outputs, relay outputs and LED indicator for trip
	Short Circuit	Phase to phase, phase to ground
LCD Display	Running	Output frequency, set frequency, output current(%), voltage, RPM, custom units
	Setting	Parameter values for setup and review
	Trip	Separate message for each trip, cause of last 31 trips retained in memory
Ambient Conditions	Temperature	0 to 40°C for UL listing
	Cooling	Forced air included when required

OPTIONS: See pages 275-276 for optional Expansion Boards including RS-232, RS-485 etc.