

Series 15H Inverter

300 thru 450 Hp

460 VAC

3 Phase - 50/60 Hz



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

Features: NEMA 1 enclosure as standard. Output frequency 0.25 to 400 Hz with peak overload capacity of 170-200%. Separate accel/decel rates and controlled reversing. Built in two and three input PID process control loop.

Design Specifications

- Process follower 0-5 VDC, 0-10 VDC, 4-20 mA
- Free run or ramp stop
- Selectable preset speeds
- Jog speed
- Dynamic braking (optional on size C2 and larger)
- DC injection braking
- 2 analog meter outputs
- 2 opto isolated outputs
- 2 relay outputs
- Through wall & panel mount size C2, E and F.

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%
 - 3 phase 573-600 VAC ±10%
- Input frequency - 50 or 60Hz ±5%
- Service factor - 1.0
- Duty - continuous
- Humidity - 90% max RH non-condensing
- 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
- Linear heat sink thermal sensor
- 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	0.25-400 Hz
	Voltage	0-Maximum input voltage (RMS)
Input Ratings	Frequency	50 or 60 Hz ± 5%
	Voltage	180 - 264 VAC; 340 - 528 VAC, 515 - 660 VAC
	Phase	Three phase (or single phase with derate)
	Impedance	1% minimum for size C2, F, G and G2 (3% minimum required for size A, B, D and E)
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; and -EO requires external assembly
	Skip Frequency	Three zones 0-Max frequency
	Frequency Setting	0-5 VDC, 0-10 VDC, 4-20mA, digital via optional RS232/485
Protective Functions	Accel/Decel	Separate accel/decel rates, 0-3600 sec to maximum frequency
	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
LCD Display	Short Circuit	Phase to phase, phase to ground
	Running	Output frequency, set frequency, output current(%), voltage, RPM, custom units
	Setting	Parameter values for setup and review
Ambient Conditions	Trip	Separate message for each trip, cause of last 31 trips retained in memory
	Temperature	-10 to + 40°C For UL Listing
	Cooling	Forced air included when required

OPTIONS: See pages 301-302 for optional Expansion Boards including RS-232, RS-485 isolated input etc. See page 299 for optional Dynamic Braking Assemblies.

Series 15H Inverter Drive Output Ratings

Catalog Number	Size	Heavy Duty			Normal Duty			List Price	Mult. Sym.
		Hp	Continuous Amps	Peak Amps	Hp	Continuous Amps	Peak Amps		
460 Volts - Three Phase									
ID15H4300-EO	G2	300	370	630	350	420	490	57,720	E1
ID15H4350-EO	G2	350	420	720	400	480	560	67,835	E1
ID15H4400-EO	G2	400	480	820	450	540	620	75,461	E1
ID15H4450-EO	G	450	540	855	500	590	680	88,091	E1

OPTIONS: See pages 301-302 for optional Expansion Boards. See page 299 for optional Dynamic Braking Assemblies. See notes on inside back flap.

Dimensions in/(mm)

Size	Outside			Mounting		Ap'x Shpg. Wgt.
	Height	Width	Depth	Height	Width	
G	93/(2362)	31.5/(800)	23.6/(600)	Floor Mount		700
G2	65.98/(1676)	31.6/(803)	23.49/(597)	Floor Mount		600

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes