



**Input: 380 – 480V
3ph
Output: 380 – 480V
3ph
60HP – 210HP**

Description

EagleDrive3TM consists of a family of Variable Frequency Drives designed to be cost-effective and easy-to-use controls for use with 3-phase induction motors.

Series # 5/6 covers seven (7) ratings in the power range of 60HP to 210HP, all suitable for 380 – 480V, three-phase input, with 380 – 480Volt, three-phase output. All EagleDrive3 products use open loop voltage and frequency control to regulate the speed of the motor. Digital control is combined with the latest IGBT power semiconductor technology to give a compact, robust solution for special or general-purpose drive applications. The product is easy to use and easy to install. Together with simple programming, EagleDrive3 minimizes the overall applied cost of a drive solution. The full range of EagleDrive3 product is designed to operate on either 200V – 240V 1 or 3-phase input for 1/2 - 3.0HP, or 380V – 480V 3-phase input for 1.0HP – 210HP.

NOTE: For single-phase induction motor control of PSC (Permanent-Split Capacitor) or Shaded-Pole motors, see our EagleDrive1TM series.

Overview

- Three-Phase Input/Three-Phase Output
- Push-button Keypad as Standard
 - 14 Standard Parameters plus Extended Parameter Set
- Designed for Low Technical Support
- Simple to Install – Contactor style power connections, key holes for mounting
- Easy to Use – "On-board" Helpcard & bright LED display
- Easy to Service – Easy access terminals, local or remote control & programming
- Powerful Performance & Features
- Built-in Filters – Meets EMC conducted & radiated emissions
- Other Options:
 - EagleEye3TM (Hand-held wireless control via optical infrared link)
 - Braking Resistors for Size 2 and larger



- EagleVision3TM (Multi-language WindowsTM-based software manages Parameter sets)
- EagleMouseTM (Optical communication port for RS232)
- PI Controller Module – Supports feedback transducers with either 0-10V (3-wire), or 4-20mA (2-wire) formats
- EagleLinkTM – A parts kit to enable a Master / Slave systems using optical communications
- Meets International Standards
UL, CSA (UL508c), CE (EN60204-1, EN50081)

Specifications

- 380 – 480Volt Input (3ph)
- 380 – 480Volt Output (3ph)
- 89 – 300Amps Max Output Current
- Max. Ambient Temperature 50° C
- Max. Altitude 6,560 Feet (2,000m)
- Storage temperature range –40° to +60° C
- Enclosure Protection: IP20
- Dimensions:
Size 5/6 = 41.14"L x 13.39"W x 12.99"D

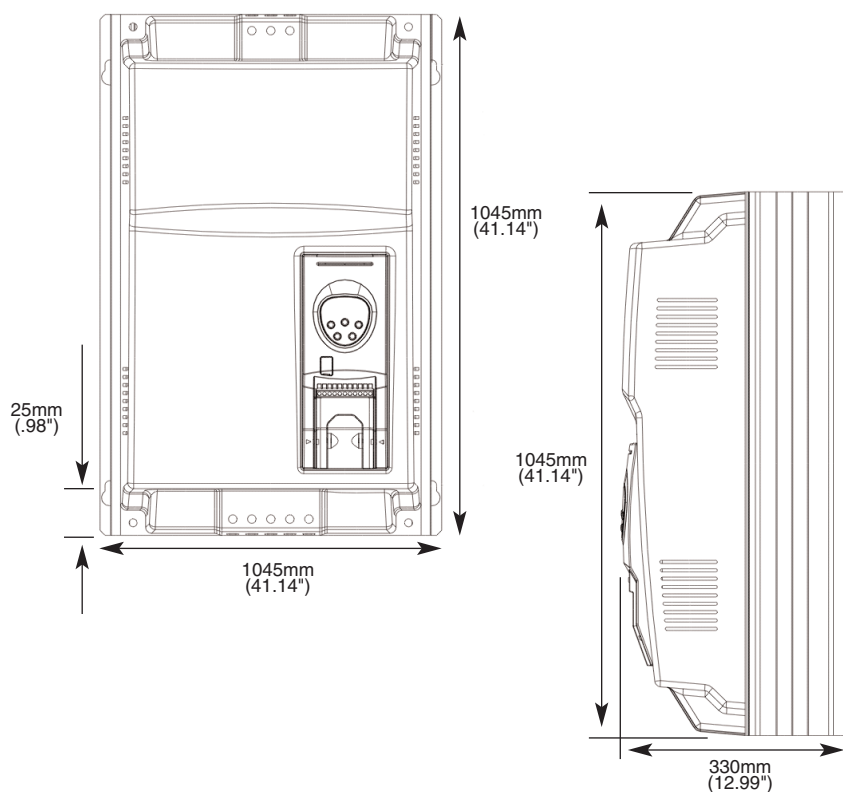
Series #5/6

Technical Features

- Power Output: Variable (Fan/Pump) Torque or Constant Torque Selectable
- Drive Efficiency: Typically 95%
- Speed Regulation: 1.0%
- Speed Range: 0 to 30,000 RPM
- Overload Rating: 150% for 60 seconds
- Minimum Full Load Torque: 3Hz
- Selectable 4kHz, 8kHz Inverter Switching Frequency
- Silent Motor Running
- Power Dip Ride Through
- Auto Restart Function Available
- Skip Frequency - Selectable
- Spinning Start Function – Selectable
- 3 Programmable Digital Inputs
- 1 Analog Selectable Input (current or speed)
- 1 Programmable Relay
- Control Terminal Inputs Galvanically Isolated
- Control Terminal Outputs Short Circuit Proof
- Automatic Safe Shutdown for comprehensive drive protection
- Parameter Lock
- Protection Features: Phase to Phase or Phase to Ground Shorts, Current trip, Thermal Overload, Over Voltage, Under Voltage, etc.

Mechanical Drawings

Size #5/6



EagleDrive3™ Data

Size		5	5	5	5	6	6	6
EagleDrive3 Model Reference	ED-xxxx-US	54600	54750	54100	54120	64150	64175	64210
Input Voltage	+/- 10%	380-480	380-480	380-480	380-480	380-480	380-480	380-480
Phases		3	3	3	3	3	3	3
Motor Output Rating	HP	60.0	75.0	100.0	120.0	150.0	175.0	210.0
	kW	45	55	75	90	110	132	160
Output Current	Amps	89	110	150	180	202	240	300
	Fuse or MCB rating	A	150	180	220	220	400	400
Max. Amb. Temp. °C for switching frequency	@4kHz	50°	50°	50°	40°	50°	50°	40°
	@8kHz	50°	40°	30°	20°	50°	40°	30°
Motor Cable Size	AWG	2	2	2	2	0	0	0
Max. Motor Cable Length	Feet	328	328	328	328	328	328	328
Weight	lbs.	62	62	62	62	150	150	150
Min. Braking Resistor	Ω	6	6	6	6	?	?	?

For assistance call 888-456-3398

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