

Low Voltage Drives

AS3P ASD

Specifications

The durable AS3P adjustable speed drive (ASD) outdoor assembly is a short lead time product available at low costs by utilizing a standardized design and options. These include line reactors, surge arrestors and a maximum of four door-mounted control options. All units have a NEMA 3R outdoor rated free standing enclosure.

Product Scope

- 380 to 460 V at 7.5 to 200 HP HD (10 to 250 HP ND)

Highlights

- Dual Rating through Parameter Change (Heavy Duty and Normal Duty)
 - Heavy Duty 150% Overload for 60 Seconds
 - Normal Duty 120% Overload for 60 Seconds
- Eight Programmable Digital Inputs
- Three Programmable Digital Outputs: One Form-C Relay & Two Form-A Dry Contact Relays
- Three Programmable Analog Inputs: One 4 to 20mA, One 0 to 10 VDC, & One +10 VDC
- Two Programmable Analog Outputs: Both 4 to 20mA or 0 to 10 VDC
- Embedded STO Safety Terminal Compliant with IEC 61800-5-2 and SIL3 level in IEC 61508
- Two-Wire/Four-Wire RS485
- Built-in Dual Port Ethernet IP
- Embedded Web Server
- Real-Time Clock for Past Trip Monitoring or Calendar Functionality
- QR Code Display for Additional Parameter Information and Fault Troubleshooting

Standard Features

- NEMA 3R Outdoor Rated Enclosure Standard
- Ambient Temperature: 14° to 104°F (-10° to +40°C)
- Altitude: Up to 1000 Meters Without Derate
- Humidity: 95% Non-Condensing
- Advanced LCD Keypad with Capacitive Touch Wheel for Navigating and Programming
- Save, Restore & Clone Multiple Drive Settings
- Real Time Clock for Past Trip Monitoring or Calendar Functionality
- Built-Dynamic Braking Drive Circuit

Available Installed Options

- Input Line Reactor
- Surge Arrestor
- Door-Mounted Selector Switches
- Door-Mounted Push Buttons
- Door-Mounted Pilot Lights
- Cabinet Space Heater



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Part Numbering Convention



The durable AS3P adjustable speed drive (ASD) outdoor assembly is a short lead time product available at low costs by utilizing a standardized design and options. These include line reactors, surge arrestors and a maximum of four door-mounted control options. All units have a NEMA 3R outdoor rated free standing enclosure.

Ordering Information: Use the following part numbering convention to configure the AS3P unit package when placing your order.

Example Part Number:	AS3P	4	###/###K	AA	#	*	*	*	*	*	*
Series: AS3P - AS3P Style Assembly											
Voltage: 4 - 460											
Model Number: 055 – 7.5HP/10HP 075 – 10HP/15HP 110 – 15HP/20HP 150 – 20HP/25HP 185 – 25HP/30HP 220 – 30HP/40HP 300 – 40HP/50HP 370 – 50HP/60HP 450 – 60HP/75HP 550 – 75HP/100HP 750 – 100HP/125HP 900 – 125HP/ 150HP 110K – 150HP/200HP 132K – 200HP/250HP											
Style: AA - Includes Input Circuit Breaker											
Reactor: 0 - No Line Reactor 3 - 3% AC Line Reactor 5 - 5% AC Line Reactor											
Surge Arrestor: 0 - No Surge Arrestor M - Basic (MOV) Surge Arrestor S - Raycap Strikesorb Surge Arrestor											
Space Heater: 0 - No Space Heater T - Cabinet Space Heater with Thermostat											
4 Door Mounted Pilot Device: 0 - No Option A - 2 Position Switch, "LOCAL/REMOTE" B - 3 Position Switch, "HAND/OFF/AUTO" C - Pilot Light, White, "POWER ON" D - Pilot Light, Amber, "ASD FAULT" E - Pilot Light, Red, "ASD RUN" F - Pilot Light, Green, "ASD STOPPED" G - Push Button, Red, "RUN" H - Push Button, Black, "STOP" I - Push Button, Black, "RESET" J - Push Button, Red, "EMERGENCY STOP"											

AS3P ASD

460 V Assembly Unit Pricing & Dimensions



VAC	HP (HD)	FLA (HD)	Model Number		H	W	D
					Dimensions (in.)		

Heavy Duty - 150% current overload for 60 seconds

(Primarily used for variable torque applications. Examples are fans, centrifugal pumps and blowers)

460	7.5	12.7	AS3P4055AA		73	32	24
460	10	16.5	AS3P4075AA		73	32	24
460	15	23.5	AS3P4110AA		73	35	26
460	20	31.7	AS3P4150AA		73	35	26
460	25	39.2	AS3P4185AA		73	35	26
460	30	46.3	AS3P4220AA		73	35	26
460	40	61.5	AS3P4300AA		73	35	26
460	50	74.5	AS3P4370AA		73	35	26
460	60	88	AS3P4450AA		73	35	26
460	75	106	AS3P4550AA		73	35	26
460	100	145	AS3P4750AA		73	35	26
460	125	173	AS3P4900AA		75	48	30
460	150	211	AS3P4110KAA		75	48	30
460	200	250	AS3P4132KAA		75	48	30

VAC	HP (ND)	FLA (ND)	Model Number		H	W	D
					Dimensions (in.)		

Normal Duty - 120% current overload for 60 seconds

(Primarily used for variable torque applications. Examples are fans, centrifugal pumps and blowers)

460	10	16.5	AS3P4055AA		73	32	24
460	15	23.5	AS3P4075AA		73	32	24
460	20	31.7	AS3P4110AA		73	35	26
460	25	39.2	AS3P4150AA		73	35	26
460	30	46.3	AS3P4185AA		73	35	26
460	40	61.5	AS3P4220AA		73	35	26
460	50	74.5	AS3P4300AA		73	35	26
460	60	88	AS3P4370AA		73	35	26
460	75	106	AS3P4450AA		73	35	26
460	100	145	AS3P4550AA		73	35	26
460	125	173	AS3P4750AA		73	35	26
460	150	211	AS3P4900AA		75	48	30
460	200	250	AS3P4110KAA		75	48	30
460	250	302	AS3P4132KAA		75	48	30

AS3P ASD

460 V Assembly Unit Options

Basic Surge Arrestor	Raycap Strikesorb Surge Arrestor	2 or 3 Position Switch	Push Button	Pilot Light	Cabinet Space Heater

AS3 ASD

Options Information & Pricing



AS3 Conduit Adapters

230 V AS3 Model Number	460 V AS3 Model Number	Frame	Conduit Adapter Model Number	Height Increase (in.)	Stand Alone Drive Rating
VFAS3-2004P	VFAS3-4004PC	A1	Included	N/A	NEMA 1
VFAS3-2007P	VFAS3-4007PC				
VFAS3-2015P	VFAS3-4015PC				
VFAS3-2022P	VFAS3-4022PC				
	VFAS3-4037PC				
VFAS3-2037P	VFAS3-4055PC	A2			
	VFAS3-4075PC				
VFAS3-2055P	VFAS3-4110PC	A3			
VFAS3-2075P	VFAS3-4150PC				
	VFAS3-4185PC				
VFAS3-2110P	VFAS3-4220PC	A4			
VFAS3-2150P	VFAS3-4300PC				
VFAS3-2185P	VFAS3-4370PC				
VFAS3-2220P	VFAS3-4450PC	A5			
VFAS3-2300P	VFAS3-4550PC				
VFAS3-2370P	VFAS3-4750PC				
VFAS3-2450P	VFAS3-4900PC	A6	NEM1306Z	13.7	IP00
VFAS3-2550P	VFAS3-4110KPC				
	VFAS3-4132KPC	A7	NEM1112Z	15.5	
	VFAS3-4160KPC				
	VFAS3-4200KPC	A8	NEM1113Z		
	VFAS3-4220KPC				
	VFAS3-4280KPC				

Notes:

- AS3 units rated IP00 do not include a bottom cover.
- Stand-alone AS3 power units from frame A6 through A8 do not comply with NEMA 1 standards. The conduit adapters listed above will bring the power unit into NEMA 1 compliance.

AS3 ASD

Options Information & Pricing



AS3 Flange-Mount Kits

230 V AS3 Model Number	460 V AS3 Model Number	Frame	Flange-Mount Kit Model Number
VFAS3-2004P	VFAS3-4004PC	A1	FOT018Z
VFAS3-2007P	VFAS3-4007PC		
VFAS3-2015P	VFAS3-4015PC		
VFAS3-2022P	VFAS3-4022PC		
	VFAS3-4037PC		
VFAS3-2037P	VFAS3-4055PC	A2	FOT019Z
	VFAS3-4075PC	A3	FOT020Z
VFAS3-2055P	VFAS3-4110PC		
VFAS3-2075P	VFAS3-4150PC		
	VFAS3-4185PC	A4	FOT021Z
VFAS3-2110P	VFAS3-4220PC		
VFAS3-2150P	VFAS3-4300PC		
VFAS3-2185P	VFAS3-4370PC	A5	FOT022Z
VFAS3-2220P	VFAS3-4450PC		
VFAS3-2300P	VFAS3-4550PC		
VFAS3-2370P	VFAS3-4750PC	A6	FOT023Z
VFAS3-2450P	VFAS3-4900PC		
VFAS3-2550P	VFAS3-4110KPC		
	VFAS3-4132KPC	A7	FOT013Z
	VFAS3-4160KPC	A8	FOT014Z
	VFAS3-4200KPC		
	VFAS3-4220KPC		
	VFAS3-4280KPC		
	VFAS3-4200KPC	A8 + IGBT7	FOT015Z
	VFAS3-4220KPC		
	VFAS3-4280KPC		

Notes:

- The flange-mount kit allows the AS3 to be installed inside an enclosure with the heat sink mounted out-the-back to reduce cooling requirements and minimize enclosure dimensions.

AS3 ASD

Options Information & Pricing

AS3 Options

Model Number	Description	Applicable Option Slot
SBP010Z	Door Mounting Kit for the AS3 Keypad Retains the IP65 Rating of the Keypad	N/A
CAB0011-0A	One Meter Cable for Remote Mounting the AS3 Keypad	
CAB0012-0A	Two Meter Cable for Remote Mounting the AS3 Keypad	
CAB0015-0A	Five Meter Cable for Remote Mounting the AS3 Keypad	
CAN001Z	CANopen Communication Option Card Includes two RJ45 Ports	A
CAN002Z	CANopen Communication Option Card Includes one 9 pin DB9 Port	
CAN003Z	CANopen Communication Option Card Includes a 5 pin Terminal Block Adapter	
DEV003Z	DeviceNet Communication Option Card	
IPE003Z	EtherCAT Communication Option Card	
PDP003Z	PROFIBUS Communication Option Card	
PNE001Z	PROFINET Communication Option Card	
ETB013Z	I/O Extension 1 Option Card Includes: -6 Digital Inputs -2 Digital Open Collector Outputs -2 Analog Inputs	
ETB014Z	I/O Extension 2 Option Card Includes: -3 Relay Outputs	
VEC008Z	RS422 Line Driver Encoder Feedback Card	B
VEC010Z	Resolver Feedback Card	
SFT001Z	Safety Option Card Provides the Following IEC Certified Control Functions -SS1, SS2, SOS, SBC, SMS, SLS, SDI, SSM Requires SBP011Z for Installation	C
SBP011Z	Adapter that Provides Option Slot C	N/A
AS3-ACI	120VAC Logic Input Control Terminal Card Includes: -6 120VAC Digital Inputs -3 Relay Outputs -3 Analog Inputs -2 Analog Outputs -STO Terminals	Replaces Default Control Terminal Strip

AS3 ASD

Options Information & Pricing



AS3 IGBT7 Braking Units

230 V AS3 Model Number	460 V AS3 Model Number	Frame	IGBT7 Braking Unit Model Number	
VFAS3-2004P	VFAS3-4004PC	A1	Included	
VFAS3-2007P	VFAS3-4007PC			
VFAS3-2015P	VFAS3-4015PC			
VFAS3-2022P	VFAS3-4022PC			
	VFAS3-4037PC			
VFAS3-2037P	VFAS3-4055PC	A2		
	VFAS3-4075PC	A3		
VFAS3-2055P	VFAS3-4110PC			
VFAS3-2075P	VFAS3-4150PC			
	VFAS3-4185PC	A4		
VFAS3-2110P	VFAS3-4220PC			
VFAS3-2150P	VFAS3-4300PC			
VFAS3-2185P	VFAS3-4370PC	A5		
VFAS3-2220P	VFAS3-4450PC			
VFAS3-2300P	VFAS3-4550PC			
VFAS3-2370P	VFAS3-4750PC			
VFAS3-2450P	VFAS3-4900PC	A6		PB7-4132K
VFAS3-2550P	VFAS3-4110KPC			
	VFAS3-4132KPC			A7
	VFAS3-4160KPC			
	VFAS3-4200KPC			
	VFAS3-4220KPC	A8	PB7-4200K	
	VFAS3-4280KPC			

G9/P9

GX9

Micro Drives

W7/WX9

Plus Pack

LV Options

Reactors
& Filters