

MICRO DRIVES

S15 ASD

Specifications

The S15 adjustable speed drive is a compact and high performance drive designed for controlling a wide range of variable and constant torque applications for multiple industries. This micro-drive is capable of working with permanent magnet (PM) motors, which allows a much greater flexibility in selecting a motor for an application. In addition, expanded PID control allows a greater level of precise control and operation of difficult level control applications. No other micro-drive delivers such reliable performance and extensive capabilities at such a competitive cost.

Product Scope

200 to 230 V at 0.5 to 20 HP
380 to 460 V at 0.5 to 20 HP
525 to 600 V at 2 to 20 HP

Single Phase

200 to 230 V at 0.25 to 3 HP

Highlights

- 110% Continuous Overload Rating, 150% for 60 Seconds
- Three Programmable Discrete Outputs: One Form-A, One Form-C, & One Open Collector
- Six Programmable Discrete Inputs
- One Programmable Analog Outputs: 4 to 20 mA or 0 to 10 VDC
- Three Programmable Analog Inputs: One 4 to 20 mA Input, One 0 to 10 VDC Input, & One ± 10 VDC Input
- NetPac Wireless Connection
- Ten Year Life-Long Design
- Compact Design
- Capable of Working with Permanent Magnet (PM) Motors
- Safe Torque Off (STO) Compliant
- Auto-Restart Operation/Catch a Spinning Motor

Standard Features

- IP20 Enclosure; Wall-Mount
- Past Trip Monitoring: Stores the Last Eight Faults in Succession, Along with At-Trip Operation Data
- Rotary Encoder
- EOI: Four-Digit/Seven-Segment LED Display
- Ambient Temperature: 14° to 122°F (-10° to 50°C)
- Humidity: 95% Non-Condensing
- Altitude: Up to 1000 Meters without Derate
- Two-Wire RS485 Communication Port
- Compliances: UL Listed in US & Canada, CSA, & CE



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S15 Power Unit

Pricing & Dimensions



VAC	HP	FLA	Model Number	Frame	H	W	D	Shipping Weight (lbs.)
					Dimensions (in.)			
230 Single-Phase	0.25	1.5	VFS15S-2002PL-W1	1C2	5.1	2.8	4.0	2.9
230 Single-Phase	0.5	3.3	VFS15S-2004PL-W1	1C2	5.1	2.8	4.7	3.1
230 Single-Phase	1	4.8	VFS15S-2007PL-W1	1C2	5.1	2.8	5.3	3.5
230 Single-Phase	2	8	VFS15S-2015PL-W1	2C2	5.1	4.1	5.9	4.4
230 Single-Phase	3	11	VFS15S-2022PL-W1	2C2	5.1	4.1	5.9	4.4

VAC	HP	FLA	Model Number	Frame	H	W	D	Shipping Weight (lbs.)
					Dimensions (in.)			
230	0.5	3.3	VFS15-2004PM-W1	1C3	5.1	2.8	4.7	2.9
230	1	4.8	VFS15-2007PM-W1	1C3	5.1	2.8	5.1	3.1
230	2	8	VFS15-2015PM-W1	2F3	5.1	4.1	5.1	4.0
230	3	11	VFS15-2022PM-W1	2F3	5.1	4.1	5.1	4.2
230	5	17.5	VFS15-2037PM-W1	3F3	6.7	5.5	5.9	6.0
230	7.5	27.5	VFS15-2055PM-W1	4C3	8.7	5.9	6.7	10.8
230	10	33	VFS15-2075PM-W1	4C3	8.7	5.9	6.7	11.0
230	15	54	VFS15-2110PM-W1	5C3	12.2	7.1	7.5	19.4
230	20	66	VFS15-2150PM-W1	5C3	12.2	7.1	7.5	19.8

VAC	HP	FLA	Model Number	Frame	H	W	D	Shipping Weight (lbs.)
					Dimensions (in.)			
460	0.5	1.5	VFS15-4004PL1-W1	2C4	5.1	4.2	5.9	4.0
460	1	2.3	VFS15-4007PL1-W1	2C4	5.1	4.2	5.9	4.2
460	2	4.1	VFS15-4015PL1-W1	2C4	5.1	4.2	5.9	4.4
460	3	5.5	VFS15-4022PL1-W1	3C4	6.7	5.5	5.9	6.6
460	5	9.5	VFS15-4037PL1-W1	3C4	6.7	5.5	5.9	7.3
460	7.5	14.3	VFS15-4055PL-W1	4C4	8.7	5.9	6.7	11.7
460	10	17	VFS15-4075PL-W1	4C4	8.7	5.9	6.7	11.9
460	15	27.7	VFS15-4110PL-W1	5C4	12.2	7.1	7.5	19.2
460	20	33	VFS15-4150PL-W1	5C4	12.2	7.1	7.5	19.4

VAC	HP	FLA	Model Number	Frame	H	W	D	Shipping Weight (lbs.)
					Dimensions (in.)			
600	2	2.7	VFS15-6015P-W1	S2C6	5.2	4.2	6.0	2.4
600	3	3.9	VFS15-6022P-W1	S3C6	6.7	5.6	6.0	4.0
600	5	6.1	VFS15-6037P-W1	S3C6	6.7	5.6	6.0	4.2
600	7.5	9	VFS15-6055P-W1	S4C6	8.7	6.0	6.7	7.9
600	10	11	VFS15-6075P-W1	S4C6	8.7	6.0	6.7	8.2
600	15	17	VFS15-6110P-W1	S5C6	12.3	7.1	7.5	13.4
600	20	22	VFS15-6150P-W1	S5C6	12.3	7.1	7.5	13.7

S15 ASD**S15 Option****Information & Pricing****S15 Conduit Adapters**

230 V Drive Model Numbers	460 V Drive Model Numbers	600 V Drive Model Numbers	Model Numbers	Height Increase (in.)
VFS15-2004 VFS15-2007 VFS15S-2002 VFS15S-2004 VFS15S-2007	N/A	N/A	NEM201Z	2.57
VFS15-2015 VFS15-2022	N/A	N/A	NEM202Z	2.58
VFS15S-2015 VFS15S-2022	N/A	N/A	NEM203Z	2.58
N/A	VFS15-4004PL VFS15-4007PL VFS15-4015PL	N/A	NEM204Z	2.58
N/A	VFS15-4004PL1 VFS15-4007PL1 VFS15-4015PL1	VFS15-6015	NEM209Z	2.56
N/A	VFS15-4022PL1 VFS15-4037PL1	VFS15-6022 VFS15-6037	NEM210Z	3.01
VFS15-2037	N/A	N/A	NEM205Z	2.62
N/A	VFS15-4022PL VFS15-4037PL	N/A	NEM206Z	2.56
VFS15-2055 VFS15-2075	VFS15-4055 VFS15-4075	VFS15-6055 VFS15-6075	NEM207Z	3.70
VFS15-2110 VFS15-2150	VFS15-4110 VFS15-4150	VFS15-6110 VFS15-6150	NEM208Z	3.88

Notes:

- Conduit adapters are mounted below the power terminal strips and replace the plastic plate provided with the drive.
- Conduit adapters provide mechanical strength and a location for a conduit connector. This allows wall-mounting of the S15 where NEMA 1 standards must be met.
- The height of the S15 will increase with the addition of the conduit adapter.

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S15 Option

Information & Pricing



DIN005Z Front



DIN005Z Back

DIN Rail Mounting Kits

230 V Drive Model Numbers	460 V Drive Model Numbers	600 V Drive Model Numbers	Model Numbers
VFS15S-2002 VFS15S-2004 VFS15S-2007 VFS15-2004 VFS15-2007	N/A	N/A	DIN003Z
VFS15S-2015 VFS15S-2022 VFS15-2015 VFS15-2022	VFS15-4004 VFS15-4007 VFS15-4015	VFS15-6015	DIN005Z






S15 EMC Grounding Plates

230 V Drive Model Numbers	460 V Drive Model Numbers	Model Numbers
VFS15S-2002 VFS15S-2004 VFS15S-2007 VFS15-2004 VFS15-2007	N/A	EMP007Z
VFS15S-2015 VFS15S-2022 VFS15-2015 VFS15-2022	VFS15-4004 VFS15-4007 VFS15-4015 VFS15-4022 VFS15-4037	EMP008Z
VFS15-2037	N/A	EMP009Z
VFS15-2055 VFS15-2075	VFS15-4055 VFS15-4075	EMP010Z
VFS15-2110 VFS15-2150	VFS15-4110 VFS15-4150	EMP011Z

Notes:

- Not a stock item; may require up to 16-week lead time.
- Not compatible with conduit adapters.




S15 ASD**S15 Option****Information & Pricing****Communication Cards, Keypads, & Cables**

Model Number	Description	
RKP002Z	Remote Mount Keypad and Parameter Writer Remote-mountable LED Keypad has 20 mm LEDs, the Largest in its Class, to Ensure Outstanding Visibility Designed to Fit into Panels for Use as an Extension Panel or Display Can be Used as a Parameter Copy, Capable of Storing Parameters for up to Three Models One CAB001x-0A Cable is Necessary Remote-mounting Kit Not Necessary for Door-mounting Hardware Included	
RKP007Z	Remote Mount Keypad One CAB001x-0A Cable is Necessary Hardware Included	
CAB0011-0A	One-meter Communication Cable	
CAB0012-0A	Two-meter Communication Cable	
CAB0015-0A	Five-meter Communication Cable	
PWU003Z	Parameter Writer Stores S15 Parameter Sets Writes Program Sets to Drive With or Without Incoming Power to the Drive	
TOS-SN-10B	Remote-mount Touch-pad Includes 1.5-meter Connection Cable M3 Mounting Hardware Not Included	
PDP003Z	Profibus Communication Option Card for S15 Drive SBP009Z Required	
DEV003Z	DeviceNet Communication Option Card for S15 Drive SBP009Z Required	
CAN001Z	CANopen Communication Option Card Includes two RJ45 Ports	
CAN002Z	CANopen Communication Option Card Includes one 9 pin DB9 Port	
CAN003Z	CANopen Communication Option Card Includes a 5 pin Terminal Block Adapter	
PNE001Z	PROFINET Communication Option Card	
IPE002Z	Ethernet IP - Modbus TCP Communication Option Card for S15 Drive SBP009Z Required	

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S15 Option

Information & Pricing

Model Number	Description
IPE003Z	Ethercat Communication Option Card for S15 Drive SBP009Z Required 
SBP009Z	S15 Communication Option Adapter 
USB001Z	USB-to-serial Conversion Unit Allows Users to Use a USB Port on Computers as a COMport for Connecting it to an ASD for Data Communications USB Input and RS485 or TTL Output for Use on S15 CAB001x-0A Required 

Notes:

- All of the options listed above are not installed and ship separately.