

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 240 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 240 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



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

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S15 Option Information



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



DIN005Z Front



DIN005Z Back

DIN Rail Mounting Kits

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

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S15 Option Information

Communication Cards, Keypads, & Cables

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

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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.