

All The Options – No Costly Extras



**NOW AVAILABLE
WITH
QUICK DISCONNECT!**



NEMA 4X (IP65) SMVvector OFFERS SIMPLICITY AND PROTECTION FOR VECTOR BASED MOTOR CONTROL

The SMV NEMA 4X (IP65) inverter drive offers sophisticated auto-tuning, fast dynamic torque response and impressive low-speed operation in a compact and simple to use package. The NEMA 4X rated enclosure allows the SMVvector to be used in indoor and indoor/outdoor applications where atmospheric moisture is present or low pressure water jets are used.

SMVvector Features

- Highly compact, easy-to-use and low cost
- Integrated keypad and display
- Optional built in EMC filter, dynamic braking and remote keypad/display
- EPM memory chip
- UL, cUL, CE, GOST, C-Tick compliant

Enclosure Options

- Indoor Only - ABS plastic
- Indoor/Outdoor - Poly-carbonate

EPM Memory Chip - OEM Magic

All SMV Series products offer the benefits of the EPM, a rugged memory chip that plugs directly into the drive, cutting programming time to seconds. An EPM programming module allows drive parameters to be instantly copied onto the chip, and once plugged in, the EPM ensures the drive is ready to run without being powered up. OEM manufacturers can speed-up production and suppliers can provide effective low-cost product support.



Fieldbus Support

ETHERNET

DeviceNet™



CANopen

Modbus

LECOM

Lenze
AC Tech

www.Lenze-ACTech.com



SMVector

Modes of Operation

Open Loop Flux Vector
(speed or torque control)
V/Hz (constant or variable)
Enhanced V/Hz with auto-tuning

Output Frequency

500 Hz standard

Universal Logic Assertion (Selectable)

Positive logic input, PNP, active high
Negative logic input, NPN, active low

Inputs/Outputs

3 Programmable +1 dedicated digital input
2 Analog inputs (4 - 20mA and 0 - 10V)
1 Digital output (24VDC/50mA)
1 Analog output (0 - 10V or 2 - 10V)
1 Relay output (24VDC/250VAC, 3A)

Speed Commands

Keypad
Jog
Floating Point Control
Voltage: Scalable 0 - 10 VDC
Current: Scalable 4 - 20 mA
Potentiometer
8 Preset speeds

Switching Frequency

4, 6, 8, 10 (kHz)

Braking Functions

DC injection braking
Optional dynamic braking

Process Control

PID Modes: direct and reverse acting
PID Sleep Mode

Acceleration/Deceleration Profile

Two independent decel ramps
Two independent accel ramps
Auxiliary ramp-to-stop
S-Type
Linear

Logic Modules

Form "C" relay
Form "C" relay with 2 additional I/O

Communication Protocols

Ethernet
DeviceNet
Modbus RTU
RS-485
CANopen
PROFIBUS-DP
LECOM

120/140V - 1Ø Input (3Ø Output)

Model Number	Output Current	Power		Size	Size with Disconnect
	I _L [A]	HP	kW		
ESV371N01S_	2.4	0.5	0.37	R1	AA1
ESV751N01S_	4.2	1	0.75	R1	AA1
ESV112N01S_	6.0	1.5	1.1	R2	AA2

200/240V - 1Ø Input (3Ø Output) With Integrated EMC Filter included.

Model Number	Output Current	Power		Size	Size with Disconnect
	I _L [A]	HP	kW		
ESV371N02S_	2.4	0.5	0.37	R1	AA1
ESV751N02S_	4.2	1	0.75	R1	AA1
ESV112N02S_	6.0	1.5	1.1	R2	AA2
ESV152N02S_	7.0	2	1.5	R2	AA2
ESV222N02S_	9.6	3	2.2	S1	

200/240V - 1 or 3Ø Input (3Ø Output)

Model Number	Output Current	Power		Size	Size with Disconnect
	I _L [A]	HP	kW		
ESV371N02Y_	2.4	0.5	0.37	R1	AA1
ESV751N02Y_	4.2	1	0.75	R1	AA1
ESV112N02Y_	6.0	1.5	1.1	R2	AA2
ESV152N02Y_	7.0	2	1.5	R2	AA2
ESV222N02Y_	9.6	3	2.2	S1	

200/240V - 3Ø Input (3Ø Output)

Model Number	Output Current	Power		Size	Size with Disconnect
	I _L [A]	HP	kW		
ESV402N02T_	16.5	5	4.0	V1	
ESV552N02T_	22.0	7.5	5.5	T1	
ESV752N02T_	28.0	10	7.5	T1	

400/480V - 3Ø Input (3Ø Output)

Model Number	Output Current	Power		Size	Size with Disconnect
	I _L [A]	HP	kW		
ESV371N04T_	1.3/1.1	0.5	0.37	R1	AA1
ESV751N04T_	2.4/2.1	1	0.75	R1	AA1
ESV112N04T_	3.5/3.0	1.5	1.1	R2	AA2
ESV152N04T_	4.0/3.5	2	1.5	R2	AA2
ESV222N04T_	5.5/4.8	3	2.2	R2	AA2
ESV302N04TF_	7.6/6.3	4	3.0	R2	AA2
ESV402N04T_	8.7/7.6	5	4.0	V1	
ESV552N04T_	12.7/11.0	7.5	5.5	V1	
ESV752N04T_	16.1/14.0	10	7.5	T1	

600V - 3Ø Input (3Ø Output)

Model Number	Output Current	Power		Size	Size with Disconnect
	I _L [A]	HP	kW		
ESV751N06T_	1.7	1	0.75	R1	AA1
ESV152N06T_	2.7	2	1.5	R2	AA2
ESV222N06T_	3.9	3	2.2	R2	AA2
ESV402N06T_	6.1	5	4.0	V1	
ESV552N06T_	9.0	7.5	5.5	V1	
ESV752N06T_	11.0	10	7.5	V2	

Model Number Designation (last two digits)

- C = NEMA 4X (IP65) Indoor Only ABS plastic enclosure, convection cooled
- D = NEMA 4X (IP65) Indoor Only ABS plastic enclosure, fan cooled
- E = NEMA 4X (IP65) Indoor/Outdoor Polycarbonate plastic enclosure, convection cooled
- F = NEMA 4X (IP65) Indoor/Outdoor Polycarbonate plastic enclosure, fan cooled

- F = Integral EMC filter
- L = Integral EMC filter and integrated line disconnect
- M = Integrated line disconnect
- X = No EMC filter/No line disconnect

	Dimensions					
	H		W		D	
	in	mm	in	mm	in	mm
R1	8.00	203	6.28	160	4.47	114
R2	8.00	203	6.28	160	6.31	160
S1	8.00	203	7.12	181	6.77	172
T1	10.00	254	8.04	204	8.00	203
V1	10.00	254	8.96	228	8.00	203
AA1	10.99	279	6.28	160	4.47	114
AA2	10.99	279	6.28	160	6.31	160



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