

SP600

DRIVES

Reliance® SP600 AC Drives with NEMA 4X/12 & IEC IP66 Enclosures

Now the benchmark is raised with the introduction of a new offering of the full featured SP600 drive with both NEMA 4X/12 and IEC IP66 ratings. These tamper-proof, washdown and dust-tight drives can withstand a direct spray of water up to 1,000psi, and they protect against dust particles as small as 75 microns.



FEATURES

- > Operator Interface
 - Multi-line Graphic LCD Display
 - Icon Menu
 - Scalable Monitor Display
 - Status Line
 - Four Programmable Function Keys
- > 7 Preset Speeds
 - Function key or logic input activation
- > Control Modes
 - V/Hz.
 - Sensorless Vector
 - Fan/Pump V/Hz.
- > Frequency Avoidance
 - Three Bands
- > Internal PI regulator
 - Flow control
 - Pressure control
 - Position control
- > Auto Tuning
 - Static
 - Rotate
 - Calculate
- > Parameter Sets
 - Three User Sets possible

- > Two Relay Outputs
 - Two Form C dry contact
- > Meter Outputs
 - 0 – 10Vdc: Usable for Meter
 - LCD Display Monitor Mode
- > Normal Duty Overload Capacity
 - 110 % for 1 minute
 - 150 % for 3 seconds
- > Heavy Duty Overload Capacity
 - 150% for 1 minute
 - 200% for 3 seconds
- > Sensorless Vector Speed Control
 - Speed Range 80:1 (typ.)
 - Speed Regulation 0.5% (typ.)
- > Voltage Tolerance
 - Typically +/-10%
- > Rated Input Voltages
 - 240VAC, 480VAC, 575VAC
- > Rated Input Frequency
 - 50/60 Hz. (47 – 63 Hz. Range)
- > Operating Temperature
 - -10 to 40 deg. C
- > Snubber (Dynamic Braking)
 - BuiltIn Transistor
 - Optional Internal Mount Resistor Kit
- > Frequency Control Range
 - 0 – 400 Hz
- > Sink/Source Inputs
 - 24 Vdc
- > Serial Communication
 - Included for Optional PC Interface Program (VS Utilities)

- > Carrier Frequency
 - 2 – 10 KHz
- > Built-in EMC filter
 - Model Number dependent

PROTECTIVE FEATURES

- > Power Loss Ride-Through
 - 15 Milliseconds at Full Load
- > Electronic Motor Overload
- > Under Voltage
 - Level Depends on Voltage Class (240, 480, or 575)
- > Ground Fault
 - Phase-to-Ground on Drive Output
- > Output Short Circuit
 - Phase-to-Phase on Drive Output
- > Over Temperature
 - Heatsink Monitor
- > Over Voltage
 - DC Bus

AGENCY CERTIFICATIONS

- > Listings
 - UL, cUL, CE, Cick (Australian Certification) , NSF (National Sanitary Foundation)

Note: CE and Cick not available on 575 volt drives

Pulp & Paper

Aggregate

✓ Unit Handling

Cement

Nuclear

✓ Petro-Chem

✓ Food & Beverage

Mining

Entertainment

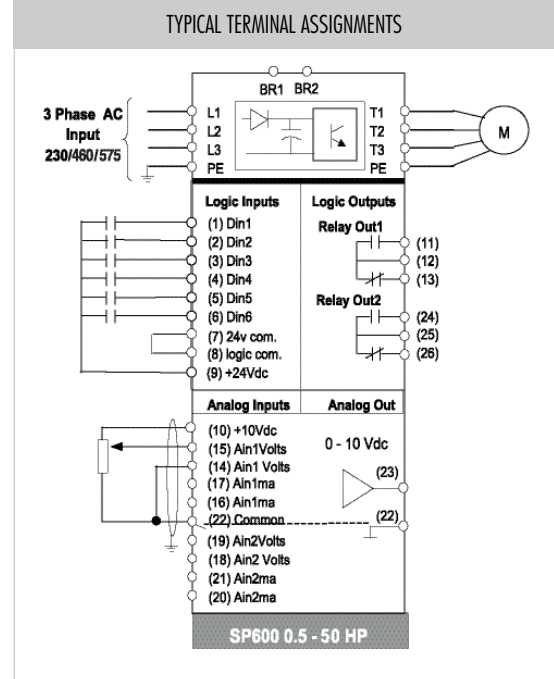
✓ Pharmaceutical

DRIVE SPECIFICATIONS

- > Two Analog Inputs
 - 0 – 10Vdc
 - -10Vdc to +10Vdc
 - Voltage Inputs can be used as 4 – 20ma./0 – 20ma. inputs

DIMENSIONS AND TYPICAL TERMINAL ASSIGNMENTS

SP600 NEMA 4X/12 380 - 480 VAC/575 VAC, 50/60 Hz				SP600 NEMA 4X/12 200 - 240 VAC, 50/60 Hz			
HP	Width	Height	Depth	HP	Width	Height	Depth
0.5 to 5.0	6.8 (172)	9.5 (240)	8.0 (203)	0.5 to 3.0	6.8 (172)	9.5 (240)	8.0 (203)
7.5 to 30	8.7 (220)	13.8 (350)	8.3 (211)	5.0 to 10	8.7 (220)	13.8 (350)	8.3 (211)
40 to 50	11.0 (280)	21.9 (556)	8.7 (220)	15 to 25	11.0 (280)	21.9 (556)	8.7 (220)



200 - 240 VAC, 50/60 Hz Input: Rating 0.5 to 25 HP				
230 VAC Model Number	Normal Duty Ratings			CE Filter
	HP	KW	Continuous Amps	
6SP24X-2P2CTNN◆	0.5	0.37	2.2	N
6SP24X-2P2CTAN				Y
6SP24X-4P2CTNN◆	1	0.75	4.2	N
6SP24X-4P2CTAN				Y
6SP24X-6P8CTNN◆	2	1.5	6.8	N
6SP24X-6P8CTAN				Y
6SP24X-9P6CTNN◆	3	2.2	9.6	N
6SP24X-9P6CTAN				Y
6SP24X-015CTAN◆	5	4	15	Y
6SP24X-022CTAN◆	7.5	5.5	22	Y
6SP24X-028CTAN◆	10	7.5	28	Y
6SP24X-042CTAN◆	15	11	42	Y
6SP24X-054CTAN◆	20	15	54	Y
6SP24X-068CTAN◆	25	19	68	Y

◆ Normally Carried in Stock

380 - 480 VAC, 50/60 Hz Input: Rating 0.5 to 50 HP				
460 VAC Model Number	Normal Duty Ratings			CE Filter
	HP	KW	Continuous Amps	
6SP44X-1P1CTNN◆	0.5	0.37	1.1	N
6SP44X-1P1CTAN				Y
6SP44X-2P1CTNN◆	1	0.75	2.1	N
6SP44X-2P1CTAN				Y
6SP44X-3P4CTNN◆	2	1.5	3.4	N
6SP44X-3P4CTAN				Y
6SP44X-005CTNN◆	3	2.2	5	N
6SP44X-005CTAN				Y
6SP44X-008CTNN◆	5	4	8	N
6SP44X-008CTAN				Y
6SP44X-011CTAN◆	7.5	5.5	11	Y
6SP44X-014CTAN◆	10	7.5	14	Y
6SP44X-022CTAN◆	15	11	22	Y
6SP44X-027CTAN◆	20	15	27	Y
6SP44X-034CTAN◆	25	19	34	Y
6SP44X-040CTAN◆	30	22.5	40	Y
6SP44X-052CTAN◆	40	30	52	Y
6SP44X-065CTAN◆	50	37.5	65	Y

◆ Normally Carried in Stock

575 VAC, 50/60 Hz Input: Rating 0.5 to 50 HP				
575 VAC Model Number	Normal Duty Ratings			CE Filter
	HP	KW	Continuous Amps	
6SP54X-0P9CTNN◆	0.5	0.37	0.9	N
6SP54X-1P7CTNN◆	1	0.75	1.7	N
6SP54X-2P7CTNN◆	2	1.5	2.7	N
6SP54X-3P9CTNN◆	3	2.2	3.9	N
6SP54X-6P1CTNN◆	5	4	6.1	N
6SP54X-9P0CTNN◆	7.5	5.5	9	N
6SP54X-011CTNN◆	10	7.5	11	N
6SP54X-017CTNN◆	15	11	17	N
6SP54X-022CTNN◆	20	15	22	N
6SP54X-027CTNN◆	25	19	27	N
6SP54X-032CTNN◆	30	22.5	32	N
6SP54X-041CTNN◆	40	30	41	N
6SP54X-052CTNN◆	50	37.5	52	N

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For more information on the new washdown, dust-tight SP600 drive, contact your authorized Reliance brand distributor or log onto www.reliance.com

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 www.reliance.com
 www.ptplace.com
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