

SDX

GENERAL PURPOSE
CONFIGURED PANEL



SDX

CONFIGURED PANEL

The SDX is a phase converting, general purpose drive focused on solutions for residential, commercial, and industrial constant pressure. Our phase converting capabilities provide three-phase power from a single phase source, allowing you to power three-phase equipment anywhere. Build the right unit for your operation using our 508A Panel Shop on our website.

Protect your investment with our all-steel, NEMA 3R enclosures, guaranteed to keep out the elements while allowing your drive to operate at peak performance. All our enclosures are made in-house at our metal fabrication shop, ensuring the highest quality products, proudly made in America.



GENERAL PURPOSE CONFIGURED PANEL



**12-DAY
LEAD TIMES**



**MADE IN THE
USA**



PUMPING APPLICATIONS

- ▶ Constant pressure from source to liquid distribution point
- ▶ Phase Converting capabilities for easy three-phase power
- ▶ Easy Set Up Wizards preprogrammed in your system for quick and easy startup
- ▶ Great of residential, commercial and industrial pumping applications
- ▶ AuxPower panel shop option for increased pumping abilities

Common Applications

AGRICULTURE	<ul style="list-style-type: none"> ▶ Irrigation ▶ Livestock
MUNICIPAL	<ul style="list-style-type: none"> ▶ Sewer Bypass ▶ Lift Stations
MINING & CONSTRUCTION	<ul style="list-style-type: none"> ▶ Dewatering ▶ Slurry & Tailings Removal ▶ Wasterwater Reuse ▶ Dust & Fire Supression ▶ Evaporation Equipment ▶ Process Water
OIL & GAS	<ul style="list-style-type: none"> ▶ Water, Oil & Mud Transfer ▶ Drilling Mud Recirculation ▶ Fuel Storage Tank Booster ▶ Downhole Pumps



CRAFT YOUR CONFIGURED PANEL

Our SDX panels come standard in a NEMA 3R outdoor enclosure option so no matter your environment, your investment will be protected by an American manufactured enclosure.

General Purpose Drive

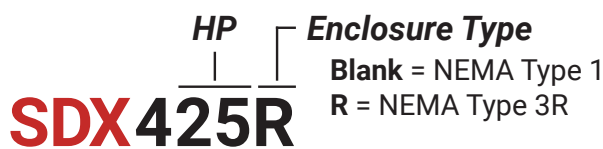
Our SDX model is a high-performance variable frequency drive (VFD) designed for controlling and optimizing motor speed in various pumping applications. With phase converting capabilities, you're power needs are easily met across many pumping applications.

Known for its robust design, the SDX offers advanced motor control, energy efficiency, and protection features. It is particularly effective in applications requiring constant pressure.

Panel Shop Additional Options

- ▶ AuxPower
- ▶ MCCB - Service Rated
- ▶ HOA & Speed Pot
- ▶ Line Reactor
- ▶ Run & Fault Light
- ▶ Output Filters
- ▶ Surge Protection
- ▶ Leg Kit

Nomenclature



VFD Series

DXLL, SDX, DXL, DX, SD = General Purpose
LHX, 1LH, 3LH = Low Harmonic
ES, SD, 2XD = Aqua Phase

Voltage

0 = 208V - 230V
2 = Voltage Doubling
4 = 460V



Physical / Environmental

Operating Temperature Range	-40 °C – 50 °C (-40 °F – 104 °F) *Heater in enclosure may be required below –40 °C, de-rating required above 40 °C
Storage Temperature Range	-40 °C – 57 °C (-40 °F – 135 °F)
Enclosure	Nema type 3R: Outdoor
Altitude	Altitude Derate by 1% every 400 ft above 3300 ft elevation

Input Power

Input Phase	Single-Phase
Input Voltage	230 V 460 V
Input Voltage Range	190 V – 275 V 440 V - 520 V
Input Frequency	60 Hz

Output Power

Output Phase	Three-Phase
Nominal Output Voltage	230 V 460 V
Output Voltage Range	190 V - 275 V 440 V – 520 V
Output Frequency	5 Hz – 300 Hz
Horsepower	5 HP - 100 HP
Output Power	2 – 11 kW
Switching Frequency	2 kHz – 8 kHz
Output	V/f Control

Electrical

Circuit Withstand Rating	25 kA RMS Symmetrical Amps
Efficiency	> 98%
Startup Ramp Time	1 – 120 s
Shutdown Ramp Time	1 – 120 s or Coast to Stop
Overload Capacity	110% for 60 s



Analog Inputs

Quantity	(2) Programmable
Current Reference	4 – 20 mA, (2) Inputs
Voltage Reference	0 – 5 VDC, (1) Input
Terminal Block Size	26 - 12 AWG

Digital Inputs

Quantity	(2) Programmable, Expandable
Ratings	< 5 V, galvanically isolated
Terminal Block Size	26 - 12 AWG

Relay Outputs

Quantity	(2) Programmable
Rating	Relay 1: 5 VDC, 7 A at 250 VAC Relay 2 : 5 VDC, 7 A at 250 VAC
Terminal Block Size	26 - 12 AWG

Features

Certification	ETL listed to UL 61800-5-1 and CSA C22.2 No. 274-17
User Interface	Push button membrane keypad with backlit graphic display
Available Feature Sets	AquaPhase™ (pump control)



INTUITIVELY ENGINEERED



**DIGITAL PHASE
CONVERTERS**

**VARIABLE
FREQUENCY
DRIVES**

**MOTOR
PROTECTION**

**STARTER
PANELS**

OUR MISSION

Relentlessly seek to provide Uncommon Value, solutions, innovation, and support for the industries that we serve.

