

PowerXL DG1 irrigation drive pump panels

Product features and inventory



Demand the drive your pump system needs... When you need it



The Eaton PowerXL™ DG1 three-phase irrigation drive pump panel is specifically designed for the irrigation pumping industry. With a weathertight, painted white NEMA® 3R enclosure, the PowerXL DG1 drive pump panel is an energy-efficient and environmentally friendly solution for motor-driven equipment.

Whether operating a center pivot, drip irrigation or water flooding system, the PowerXL DG1 drive pump panel is designed to meet your three-phase irrigation control needs.

- 480 V variable torque DG1 drive
- NEMA 3R weathertight enclosure for outdoor environments
- Bottom entry for easy cable access
- Reduces environmental impact
- Reduces water hammer with ramp-up speed control
- Internet of Things (IoT) connectivity via cellular gateway enables remote monitoring and control
- 25–600 hp available
- Local inventory in our W87 Fontana California Distribution Center as well as through our Eaton Authorized Distributors

Durable design

The PowerXL DG1 drive pump panel is enclosed in a painted white NEMA 3R panel to provide weathertight protection, allowing panel installation outdoors near irrigation equipment without additional shelter.

Easy installation and connection

The PowerXL DG1 drive pump panel is one of the first irrigation panels with an easy-to-use bottom entry. The floor stand enables mounting the panel as a standalone electrical panel.

Standards and certifications

- UL® Listed
- cUL® Listed



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Why use the PowerXL DG1 drive pump panel?

Clean solution

The PowerXL DG1 drive pump panel greatly reduces environmental impact and the high costs associated with powering agricultural and irrigation pump equipment.

- Reduces air and groundwater contamination
- Decreases fuel and lubricant leakage

Efficient power

The PowerXL DG1 drive pump panel is an efficient and cost-effective solution.

- Eliminates pump motor inrush current
- Lower energy consumption than rotary phase converters

PowerXL DG1 drive pump panel features

Protection features

- Input molded case circuit breaker
- EMI filter
- Input overvoltage protection
- Line surge protection to 50 kA
- Output short-circuit protection
- Output ground fault protection
- Output phase protection
- Overtemperature protection
- DC overvoltage protection
- Drive overload protection
- Keypad lockout
- Fault alarm output
- Built-in diagnostics
- Pilot device cover

Panel features

- 480 Vac three-phase input
- START/STOP pushbuttons
- Speed control potentiometer
- Hand-Off-Auto selector switch
- Power ON, run and fault lights
- 22-inch floor stands on AX-CX enclosures (25–150 hp)
- Lockable door-mounted power disconnect handle
- Padlockable pilot device cover
- Service entrance label
- Transient voltage surge suppression
- Control power transformer
- Painted white NEMA 3R enclosure
- Cellular gateway for data transmission and analytics via Eaton's IoT solution services



Interior of the PowerXL DG1 three-phase drive pump panel

Primary design features

45–66 Hz input frequency	Standard
Output: AC volts maximum	Based on supply voltage
Overload	110% of rated (1 minute [I_L])
Fault current rating	100 kAIC
Weathertight NEMA 3R enclosure	Standard
Ambient operating temperature	14 °F (–10 °C) no frost, to 104 °F (40 °C)
Regulatory listings	UL, cUL

Eaton PowerXL DG1 pump panels quick ship program

Variable torque hp standard	Constant torque hp heavy-duty	Description	Enclosure size	Typical availability	Style number	Catalog number
25	20	DG1 pump, 480 V, 25 hp, VT, white NEMA 3R, CB, SPD	AX	Stocked	3-4903-10A	EGS0344B380-PUMP01
30	25	DG1 pump, 480 V, 30 hp, VT, white NEMA 3R, CB, SPD	AX	10 days	3-4903-11A	EGS0404B380-PUMP01
40	30	DG1 pump, 480 V, 40 hp, VT, white NEMA 3R, CB, SPD	AX	10 days	3-4903-12A	EGS0524B380-PUMP01
50	40	DG1 pump, 480 V, 50 hp, VT, white NEMA 3R, CB, SPD	BX	Stocked	3-4903-13A	EGS0654A380-PUMP01
60	50	DG1 pump, 480 V, 60 hp, VT, white NEMA 3R, CB, SPD	BX	10 days	3-4903-14A	EGS0774A380-PUMP01
75	60	DG1 pump, 480 V, 75 hp, VT, white NEMA 3R, CB, SPD	BX	Stocked	3-4903-15A	EGS0964A380-PUMP01
100	75	DG1 pump, 480 V, 100 hp, VT, white NEMA 3R, CB, SPD	CX	Stocked	3-4903-16A	EGS1244A380-PUMP01
125	100	DG1 pump, 480 V, 125 hp, VT, white NEMA 3R, CB, SPD	CX	Stocked	3-4903-17A	EGS1564A380-PUMP01
150	125	DG1 pump, 480 V, 150 hp, VT, white NEMA 3R, CB, SPD	CX	Stocked	3-4903-18A	EGS1804A380-PUMP01
200	150	DG1 pump, 480 V, 200 hp, VT, white NEMA 3R, CB, SPD	DX	Stocked	3-4903-19A	EGS2404A380-PUMP01
250	200	DG1 pump, 480 V, 250 hp, CT, white NEMA 3R, CB, SPD	DX	Stocked	3-4903-28A	EGS3024A380-PUMP01
300	250	DG1 pump, 480 V, 300 hp, CT, white NEMA 3R, CB, SPD	EX	Stocked	3-4903-29A	EGS3614A380-PUMP01

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