DRIVES IN STOCK

XP Drive

ETL LISTED CLASS I & II DIVISION 1, PASSIVELY COOLED, NEMA 7 / 4X, EXPLOSION PROOF VFD

INTRODUCTION

The XP Drive is an ETL Listed, Class I & II, Division 1 explosion-proof VFD from SAI. The product includes a passively cooled variable frequency drive in compact cast aluminum alloy NEMA 7 / 4X enclosure with circuit protection, local operators and pilot indicators.

The product range has been certified by ETL to meet UL 508A & 1203 and CSA C22.2 standards for use within CID1 & CIID1 hazloc environments in USA and Canada.

The XP Drive does not require purging nor AC for cooling, allowing for greater flexibility with install location. Installing in close proximity to the motor application provides many benefits including, reduced wiring costs, avoids issues associated with long motor lead lengths and additionally improves process efficiency and operator safety.

The XP Drive is the drive of choice for Class I & II, Division 1 environments.



Intertek
5004518

ETL LISTED PER UL 508A & 1203
CID1, Grps B, C & D
CIID1, Grps E, F & G
Temp code T5

MADE IN THE USA



INPUT VOLTAGE
1-PH, 230V - 3-PH, 480V

POWER RANGE
1/8 HP - 25 HP

NEMA TYPE 7 / 4X
INDOOR / OUTDOOR

Model range & specifications on reverse

STANDARD FEATURES

- Certification: ETL Listed Class I & II, Division 1
- Cooling: Passively cooled, no purged air or AC required
- Enclosure: Compact NEMA Type 7 / 4X
- Electrical protection: Circuit breaker disconnect
- Local operators: Hand-Off-Auto, Hand-Off-On, Speed adjust, Fault Reset push button
- Pilot lamps: Run & Fault
- Safety: Safe Torque Off (STO) CAT 2 E-Stop
- Communications: MODBUS RTU
- Operating temperature: 40°C
- Control: Remote run command & speed reference
- Warranty: 1 year factory

OPTIONS

- 3% AC input and output reactor
- Interchangeable operators
- Additional surge protection available
- Front panel powder coating
- Auxiliary mounted window kit w/ digital display
- Remote metering display
- Remote HMI / operators control panel
- Additional communication protocols
- Temp ratings of 50°C or 55°C available

** Available options vary depending on model configuration*

REFINERIES › CHEMICAL › PHARMACEUTICAL › WATER & WASTE › DISTILLERIES › AGRICULTURAL › PAINT BOOTHS

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XP DRIVE - TECHNICAL SPECIFICATIONS

**Technical specifications subject to change*

POWER RANGE

Phase	Input Voltage	HP	Max FLA	kW
1-PH	120 - 240 VAC *	1/8 HP - 3 HP	2.2 A - 9.6 A	0.1 - 2.2
3-PH	200 - 240 VAC	1/4 HP - 10 HP	4.2 A - 28 A	0.2 - 7.5
3-PH	380 - 480 VAC	1/4 HP - 25 HP **	2.1 A - 34 A	0.2 - 18.6

* 120 VAC is supported by adding a 120V CID2 step-up transformer

** All drives are rated as heavy duty - constant torque, except the 25 HP / 34 A model which is rated at normal duty - variable torque

ENCLOSURE DIMENSIONS

Frame B6	Frame B8	Frame C6	Frame C8	Frame D8
12” x 18” x 06”	12” x 18” x 08”	12” x 24” x 06”	12” x 24” x 08”	12” x 36” x 08”

The XP Drive enclosure is cast aluminum alloy NEMA 7 / 4X. Enclosure is suitable for use indoors or outdoors. The NEMA 4X is corrosion resistant. Enclosure selection is dependent on drive configuration. See website www.saidrives.com/xpdrive/specifications for model matrix.

ENVIRONMENTAL

Standard (s) / Rating	ETL Listed, Class I Division 1 Grps B, C & D & Class II Division 1 Grps E, F & G temp code T5 Conforming to standards; UL 508A 3rd Edition, 508C 3rd Edition, 1203 5th Edition & CSA C22.2 #14, #25 & #30
OPERATING TEMPERATURE	-10°C TO 55°C *
STORAGE TEMPERATURE	-40°C TO 85°C
HUMIDITY	0 TO 95% RELATIVE HUMIDITY, NON CONDENSATING
MAX ALTITUDE	1,000M (3,300FT) WITHOUT DERATING

* Max ambient operating temperature model and configuration dependent

ELECTRICAL

CONTROL SYSTEM	Frequency control, open loop sensorless vector
FREQUENCY OUTPUT	0 - 320 Hz
PROTECTIONS	Circuit breaker disconnect with through door operator & optional 3% AC input line reactor
COMMUNICATIONS	0 = ModBUS RTU, C = CANOpen, D = Device Net, E = Ethernet IP, P = Profibus
REMOTE CONTROL	Factory configured for 4-20mA (0 - 10V optional)
PROGRAMMING	Use PC tools or keypad HMI (keypad for programming only, not for hazardous area use)