



# P-SERIES

## VARIABLE FREQUENCY DRIVE

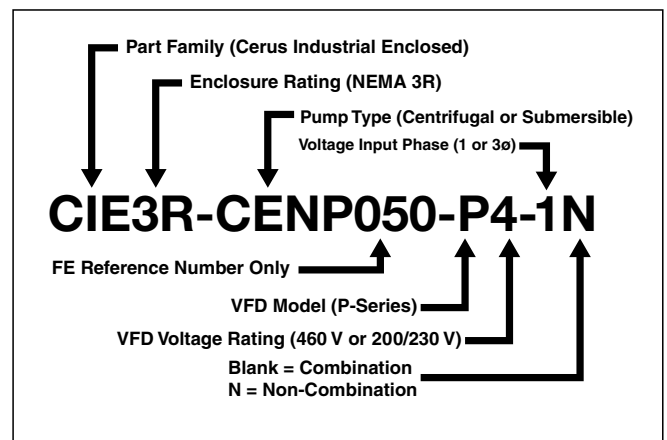
### Variable Speed Control is Just the Beginning

Everyone knows variable frequency drives save you money by varying motor speed to match demand. Our automatic energy savings mode minimizes losses by optimizing the output power for higher efficiency. Under low load conditions, Sleep Mode deactivates the drive and its output – then awakens and reactivates output when demand rises to unlock additional savings. It also extends the life of the equipment.

### Standard Features (Enclosed Drives)

- Automatic carrier frequency change (adjusts based on temperature for optimal operation)
- Selectable V/F, sensorless vector control
- For outdoor and/or wash down applications
- Rainproof NEMA 3R enclosure reduces thermal absorption with white, solar reflective finish and filtered cooling fans
- Standard enclosed VFD package is rated for 110° ambient temperature, non-direct sunlight.
- Additional application-specific protective devices included (i.e. line reactors, load reactors, and dV/dT filter)

### Part Number Anatomy



### Optimized for Pumps: Energy Savings, Reliability, & Ease of Use

#### Franklin FastApp™ Firmware

- Quick and easy setup for submersible and centrifugal packages
- Display uses pump specific terminology

#### Pump Specific Protection and Features

- Broken pipe detection
- Dry-well/Underload detection with cycling timer
- Pipe fill (Pre-PID) - VFD ramps up to Pre-PID frequency and fills pipes without pressurizing system
- Sleep and wake up functions
- Automatic energy savings mode
- Flying start protection prevents trips, rough starts, and drive damage from regenerative power due to heavy inertia rotation

#### Custom Packages Available

- Alternative enclosure options (NEMA 1, NEMA 12, NEMA 4X)
- Multi-motor/pump packages
- Customizable control options

## NEMA 3R ENCLOSED

# P-SERIES LARGE DRIVE

Designed to withstand harsh environments



- 1 P-Series Pump Optimized VFD**
  - 32-character keypad and pre-configured parameters for all common pump applications
- 2** Rugged outdoor NEMA 3R enclosure with cooling fans and filtration
- 3** Circuit breaker disconnect eliminates call backs due to fuse issues
- 4** Line reactor enhances protection from transient surges and provides a degree of harmonic mitigation
- 5** Control power transformer with breaker protection
- 6** Output filter for long motor leads

## Ordering & Sizing Information

### P-Series (Enclosed) - Submersibles (Combination)

Single-Phase & Three-Phase (200-230 V, 480 V)  
UL/NEMA 3R Enclosure

Voltage	HP	Max Amps	Model No.	Description
200-230 V, 1-Phase	3	12	CIE3R-SUBP003-P2-1	N3R, 3 HP, 230 V, 1PH Enclosed VFD, MCCB, LR, OR
	5	16	CIE3R-SUBP005-P2-1	N3R, 5 HP, 230 V, 1PH Enclosed VFD, MCCB, LR, OR
	7.5	24	CIE3R-SUBP007-P2-1	N3R, 7 HP, 230 V, 1PH Enclosed VFD, MCCB, LR, OR
	10	32	CIE3R-SUBP010-P2-1 (230V Only)	N3R, 10 HP, 230 V, 1PH Enclosed VFD, MCCB, LR, OR
	15	46	CIE3R-SUBP015-P2-1 (230V Only)	N3R, 15 HP, 230 V, 1PH Enclosed VFD, MCCB, LR, OR
	20	60	CIE3R-SUBP020-P2-1 (230V Only)	N3R, 20 HP, 230 V, 1PH Enclosed VFD, MCCB, LR, OR
200-230 V, 3-Phase	3	11	CIE3R-SUBP003-P2-3	N3R, 3 HP, 230 V, 3PH Enclosed VFD, MCCB, LR, OR
	5	17	CIE3R-SUBP005-P2-3	N3R, 5 HP, 230 V, 3PH Enclosed VFD, MCCB, LR, OR
	7.5	23	CIE3R-SUBP007-P2-3	N3R, 7.5 HP, 230 V, 3PH Enclosed VFD, MCCB, LR, OR
	10	33	CIE3R-SUBP010-P2-3	N3R, 10 HP, 230 V, 3PH Enclosed VFD, MCCB, LR, OR
	15	44	CIE3R-SUBP015-P2-3	N3R, 15 HP, 230 V, 3PH Enclosed VFD, MCCB, LR, OR
	20	54	CIE3R-SUBP020-P2-3	N3R, 20 HP, 230 V, 3PH Enclosed VFD, MCCB, LR, OR
	25	68	CIE3R-SUBP025-P2-3	N3R, 25 HP, 230 V, 3PH Enclosed VFD, MCCB, LR, OR
480 V, 1-Phase	3	6	CIE3R-SUBP003-P4-1	N3R, 3 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OR
	5	8	CIE3R-SUBP005-P4-1	N3R, 5 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OR
	7.5	12	CIE3R-SUBP007-P4-1	N3R, 7 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OR
	10	16	CIE3R-SUBP010-P4-1	N3R, 10 HP, 460 V, 1PH Enclosed VFD, MCCB,LR,OF
	15	24	CIE3R-SUBP015-P4-1	N3R, 15 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	20	30	CIE3R-SUBP020-P4-1	N3R, 20 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	25	39	CIE3R-SUBP025-P4-1	N3R, 25 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	30	45	CIE3R-SUBP030-P4-1	N3R, 30 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	40	75	CIE3R-SUBP040-P4-1	N3R, 40 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	50	75	CIE3R-SUBP050-P4-1	N3R, 50 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	60	91	CIE3R-SUBP060-P4-1	N3R, 60 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	75	110	CIE3R-SUBP075-P4-1	N3R, 75 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	100	152	CIE3R-SUBP100-P4-1	N3R, 100 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	125	223	CIE3R-SUBP125-P4-1	N3R, 125 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
	150	223	CIE3R-SUBP150-P4-1	N3R, 150 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF
200	306	CIE3R-SUBP200-P4-1	N3R, 200 HP, 460 V, 1PH Enclosed VFD, MCCB, LR, OF	
480 V, 3-Phase	3	8	CIE3R-SUBP003-P4-3	N3R, 3 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	5	12	CIE3R-SUBP005-P4-3	N3R, 5 HP, 460 V, 3PH Enclosed VFD, MCCB,LR,OF
	7.5	16	CIE3R-SUBP007-P4-3	N3R, 7.5 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	10	24	CIE3R-SUBP010-P4-3	N3R, 10 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	15	30	CIE3R-SUBP015-P4-3	N3R, 15 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	20	39	CIE3R-SUBP020-P4-3	N3R, 20 HP, 460 V, 3PH Enclosed VFD, MCCB,LR,OF
	25	45	CIE3R-SUBP025-P4-3	N3R, 25 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	30	61	CIE3R-SUBP030-P4-3	N3R, 30 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	40	75	CIE3R-SUBP040-P4-3	N3R, 40 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	50	91	CIE3R-SUBP050-P4-3	N3R, 50 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	60	110	CIE3R-SUBP060-P4-3	N3R, 60 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	75	152	CIE3R-SUBP075-P4-3	N3R, 75 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	100	183	CIE3R-SUBP100-P4-3	N3R, 100 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	125	223	CIE3R-SUBP125-P4-3	N3R, 125 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
	150	264	CIE3R-SUBP150-P4-3	N3R, 150 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF
200	325	CIE3R-SUBP200-P4-3	N3R, 200 HP, 460 V, 3PH Enclosed VFD, MCCB, LR, OF	

\* Phase refers to incoming power, not motor.

NOTE: The drive MUST BE sized according to the motor manufacturer's maximum amperage draw. Upsize VFD for ambient temperature compensation (see VFD specs for temperature rating).

\*If 3-Phase open delta power source, consult the hotline for further sizing information

## Ordering & Sizing Information

### P-Series (Enclosed) - Surface (Combination)

Single-Phase & Three-Phase (200-230 V, 480 V)

UL/NEMA 3R Enclosure

Voltage	HP	Max Amps	Model No.	Description
208 V 1-Phase	3	11	CIE3R-CENP003-P2-1	NEMA 3R, 3HP, 230V/1Ph Upsized VFD, MCCB, LR
	5	17.5	CIE3R-CENP005-P2-1	NEMA 3R, 5HP, 230V/1Ph Upsized VFD, MCCB, LR
	7.5	25	CIE3R-CENP007-P2-1	NEMA 3R, 7.5HP, 230V/1Ph Upsized VFD, MCCB, LR
	10	32	CIE3R-CENP010-P2-1	NEMA 3R, 10HP, 230V/1Ph Upsized VFD, MCCB, LR
	15	46	CIE3R-CENP015-P2-1	NEMA 3R, 15HP, 230V/1Ph Upsized VFD, MCCB, LR
	20	60	CIE3R-CENP020-P2-1	NEMA 3R, 20HP, 230V/1Ph Upsized VFD, MCCB, LR
230 V 3-Phase	3	11	CIE3R-CENP003-P2-3	NEMA 3R, 3HP, 230V/3Ph Upsized VFD, MCCB, LR
	5	17	CIE3R-CENP005-P2-3	NEMA 3R, 5HP, 230V/3Ph Upsized VFD, MCCB, LR
	7	23	CIE3R-CENP007-P2-3	NEMA 3R, 7HP, 230V/3Ph Upsized VFD, MCCB, LR
	10	33	CIE3R-CENP010-P2-3	NEMA 3R, 10HP, 230V/3Ph Upsized VFD, MCCB, LR
	15	44	CIE3R-CENP015-P2-3	NEMA 3R, 15HP, 230V/3Ph Upsized VFD, MCCB, LR
	20	54	CIE3R-CENP020-P2-3	NEMA 3R, 20HP, 230V/3Ph Upsized VFD, MCCB, LR
	25	68	CIE3R-CENP025-P2-3	NEMA 3R, 25HP, 230V/3Ph Upsized VFD, MCCB, LR
	30	84	CIE3R-CENP030-P2-3	NEMA 3R, 30HP, 230V/3Ph Upsized VFD, MCCB, LR
480 V 1-Phase	3	6	CIE3R-CENP003-P4-1	NEMA 3R, 3HP, 460V/1Ph Upsized VFD, MCCB, LR
	5	8	CIE3R-CENP005-P4-1	NEMA 3R, 5HP, 460V/1Ph Upsized VFD, MCCB, LR
	7	12	CIE3R-CENP007-P4-1	NEMA 3R, 7HP, 460V/1Ph Upsized VFD, MCCB, LR
	10	16	CIE3R-CENP010-P4-1	NEMA 3R, 10HP, 460V/1Ph Upsized VFD, MCCB, LR
	15	24	CIE3R-CENP015-P4-1	NEMA 3R, 15HP, 460V/1Ph Upsized VFD, MCCB, LR
	20	30	CIE3R-CENP020-P4-1	NEMA 3R, 20HP, 460V/1Ph Upsized VFD, MCCB, LR
	25	39	CIE3R-CENP025-P4-1	NEMA 3R, 25HP, 460V/1Ph Upsized VFD, MCCB, LR
	30	45	CIE3R-CENP030-P4-1	NEMA 3R, 30HP, 460V/1Ph Upsized VFD, MCCB, LR
	40	75	CIE3R-CENP040-P4-1	NEMA 3R, 40HP, 460V/1Ph Upsized VFD, MCCB, LR
	50	75	CIE3R-CENP050-P4-1	NEMA 3R, 50HP, 460V/1Ph Upsized VFD, MCCB, LR
	60	91	CIE3R-CENP060-P4-1	NEMA 3R, 60HP, 460V/1Ph Upsized VFD, MCCB, LR
	75	110	CIE3R-CENP075-P4-1	NEMA 3R, 75HP, 460V/1Ph Upsized VFD, MCCB, LR
	100	152	CIE3R-CENP100-P4-1	NEMA 3R, 100HP, 460V/1Ph Upsized VFD, MCCB, LR
	125	223	CIE3R-CENP125-P4-1	NEMA 3R, 125HP, 460V/1Ph Upsized VFD, MCCB, LR
150	223	CIE3R-CENP150-P4-1	NEMA 3R, 150HP, 460V/1Ph Upsized VFD, MCCB, LR	
200	306	CIE3R-CENP200-P4-1	NEMA 3R, 200HP, 460V/1Ph Upsized VFD, MCCB, LR	
480 V 3-Phase	3	8	CIE3R-CENP003-P4-3	NEMA 3R, 3HP, 460V/3Ph Upsized VFD, MCCB, LR
	5	12	CIE3R-CENP005-P4-3	NEMA 3R, 5HP, 460V/3Ph Upsized VFD, MCCB, LR
	7	16	CIE3R-CENP007-P4-3	NEMA 3R, 7HP, 460V/3Ph Upsized VFD, MCCB, LR
	10	24	CIE3R-CENP010-P4-3	NEMA 3R, 10HP, 460V/3Ph Upsized VFD, MCCB, LR
	15	30	CIE3R-CENP015-P4-3	NEMA 3R, 15HP, 460V/3Ph Upsized VFD, MCCB, LR
	20	39	CIE3R-CENP020-P4-3	NEMA 3R, 20HP, 460V/3Ph Upsized VFD, MCCB, LR
	25	45	CIE3R-CENP025-P4-3	NEMA 3R, 25HP, 460V/3Ph Upsized VFD, MCCB, LR
	30	61	CIE3R-CENP030-P4-3	NEMA 3R, 30HP, 460V/3Ph Upsized VFD, MCCB, LR
	40	75	CIE3R-CENP040-P4-3	NEMA 3R, 40HP, 460V/3Ph Upsized VFD, MCCB, LR
	50	91	CIE3R-CENP050-P4-3	NEMA 3R, 50HP, 460V/3Ph Upsized VFD, MCCB, LR
	60	110	CIE3R-CENP060-P4-3	NEMA 3R, 60HP, 460V/3Ph Upsized VFD, MCCB, LR
	75	152	CIE3R-CENP075-P4-3	NEMA 3R, 75HP, 460V/3Ph Upsized VFD, MCCB, LR
	100	183	CIE3R-CENP100-P4-3	NEMA 3R, 100HP, 460V/3Ph Upsized VFD, MCCB, LR
	125	223	CIE3R-CENP125-P4-3	NEMA 3R, 125HP, 460V/3Ph Upsized VFD, MCCB, LR
	150	264	CIE3R-CENP150-P4-3	NEMA 3R, 150HP, 460V/3Ph Upsized VFD, MCCB, LR
	200	325	CIE3R-CENP200-P4-3	NEMA 3R, 200HP, 460V/3Ph Upsized VFD, MCCB, LR

\*If 3-Phase open delta power source, consult the hotline for further sizing information

## Ordering & Sizing Information

### P-Series (Enclosed) - Submersibles (Combination)

Three-Phase (575 V) UL/NEMA 3R Enclosure

Voltage	HP	Max Amps	Model No.	Description
600 V, 3-Phase	2	3.3	CIE3R-SUBP002-P6-3	N3R, 2 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	3	6	CIE3R-SUBP003-P6-3	N3R, 3 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	5	7	CIE3R-SUBP005-P6-3	N3R, 5 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	7.5	11	CIE3R-SUBP007-P6-3	N3R, 7.5 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	10	16	CIE3R-SUBP010-P6-3	N3R, 10 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	15	19.5	CIE3R-SUBP015-P6-3	N3R, 15 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	20	24	CIE3R-SUBP020-P6-3	N3R, 20 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	25	30	CIE3R-SUBP025-P6-3	N3R, 25 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	30	41	CIE3R-SUBP030-P6-3	N3R, 30 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	40	52	CIE3R-SUBP040-P6-3	N3R, 40 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	50	62	CIE3R-SUBP050-P6-3	N3R, 50 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	60	77	CIE3R-SUBP060-P6-3	N3R, 60 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	75	99	CIE3R-SUBP075-P6-3	N3R, 75 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
	100	125	CIE3R-SUBP100-P6-3	N3R, 100 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF
125	150	CIE3R-SUBP125-P6-3	N3R, 125 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OF	

\* Phase refers to incoming power, not motor.

NOTE: The drive MUST BE sized according to the motor manufacturer's maximum amperage draw. Upsize VFD for ambient temperature compensation (see VFD specs for temperature rating).

## Ordering & Sizing Information

### P-Series (Enclosed) - Surface (Combination)

Three-Phase (575 V) UL/NEMA 3R Enclosure

Voltage	HP	Max Amps	Model No.	Description
600 V, 3 Phase	2	3.3	CIE3R-CENP002-P6-3	N3R, 2 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	3	5	CIE3R-CENP003-P6-3	N3R, 3 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	5	7	CIE3R-CENP005-P6-3	N3R, 5 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	7.5	10.4	CIE3R-CENP007-P6-3	N3R, 7.5 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	10	11	CIE3R-CENP010-P6-3	N3R, 10 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	15	19.5	CIE3R-CENP015-P6-3	N3R, 15 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	20	24	CIE3R-CENP020-P6-3	N3R, 20 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	25	30	CIE3R-CENP025-P6-3	N3R, 25 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	30	32	CIE3R-CENP030-P6-3	N3R, 30 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	40	41	CIE3R-CENP040-P6-3	N3R, 40 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	50	52	CIE3R-CENP050-P6-3	N3R, 50 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	60	62	CIE3R-CENP060-P6-3	N3R, 60 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	75	77	CIE3R-CENP075-P6-3	N3R, 75 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
	100	99	CIE3R-CENP100-P6-3	N3R, 100 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR
125	125	CIE3R-CENP125-P6-3	N3R, 125 HP, 575 V, 3PH Enclosed Upsized VFD, MCCB, LR, OR	

\* Phase refers to incoming power, not motor.

NOTE: The drive MUST BE sized according to the motor manufacturer's maximum amperage draw. Upsize VFD for ambient temperature compensation (see VFD specs for temperature rating).

## P-Series Large Drive Accessories

Model No.	Wt. (lbs)	Description
VFD-FPL	1	Fault Pilot Light (Red Standard)
VFD-HOA	1	Hand/Off/Auto Switch
VFD-KPD-4X	1	Door Mounted Keypad with Type 4X Cover
VFD-KPD	1	Door Mounted Keypad
VFD-RPL	1	Run Pilot Light (Green Standard)
VFD-SPD	1	Door Mounted Speed Potentiometer
PSIG-100-20FT	1	Transducer (Gauge Pressure), 100 PSIG 4-20 mA, +/-0.5% accy
PSIG-200-20FT	1	Transducer (Gauge Pressure), 200 PSIG 4-20 mA, +/-0.5% accy
PSIG-300-20FT	1	Transducer (Gauge Pressure), 300 PSIG 4-20 mA, +/-0.5% accy

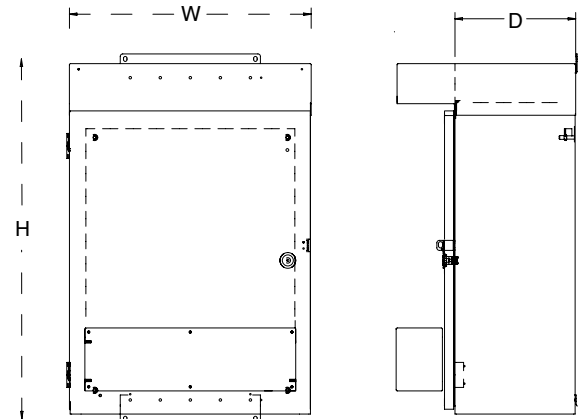
P-Series Enclosed

Drive Dimensions (Submersibles)

P-Series Model No.	H	W	D
CIE3R-SUBP003-P2-1	29	24	12
CIE3R-SUBP005-P2-1	35	24	12
CIE3R-SUBP007-P2-1			
CIE3R-SUBP010-P2-1			
CIE3R-SUBP015-P2-1	41	24	12
CIE3R-SUBP020-P2-1	47	24	14
CIE3R-SUBP003-P2-3	29	24	12
CIE3R-SUBP005-P2-3			
CIE3R-SUBP007-P2-3			
CIE3R-SUBP010-P2-3	35	24	12
CIE3R-SUBP015-P2-3			
CIE3R-SUBP020-P2-3			
CIE3R-SUBP030-P2-3	47	24	14
CIE3R-SUBP003-P4-1	29	24	12
CIE3R-SUBP005-P4-1	35	24	12
CIE3R-SUBP007-P4-1			
CIE3R-SUBP010-P4-1			
CIE3R-SUBP015-P4-1	47	24	14
CIE3R-SUBP020-P4-1			
CIE3R-SUBP025-P4-1			
CIE3R-SUBP030-P4-1	55	36	16
CIE3R-SUBP040-P4-1			
CIE3R-SUBP050-P4-1			
CIE3R-SUBP060-P4-1	60	60	24
CIE3R-SUBP075-P4-1			
CIE3R-SUBP100-P4-1			
CIE3R-SUBP125-P4-1	72	60	24
CIE3R-SUBP150-P4-1			
CIE3R-SUBP200-P4-1			
CIE3R-SUBP003-P4-3	29	24	12
CIE3R-SUBP005-P4-3	35	24	12
CIE3R-SUBP007-P4-3			
CIE3R-SUBP010-P4-3			
CIE3R-SUBP015-P4-3	41	24	12
CIE3R-SUBP020-P4-3			
CIE3R-SUBP025-P4-3			
CIE3R-SUBP030-P4-3	47	24	14
CIE3R-SUBP040-P4-3			
CIE3R-SUBP050-P4-3			
CIE3R-SUBP060-P4-3	55	36	16
CIE3R-SUBP075-P4-3			
CIE3R-SUBP100-P4-3			
CIE3R-SUBP125-P4-3	60	60	24
CIE3R-SUBP150-P4-3			
CIE3R-SUBP200-P4-3			
CIE3R-SUBP250-P4-3	72	60	24
CIE3R-SUBP300-P4-3			
CIE3R-SUBP350-P4-3			
CIE3R-SUBP002-P6-3	29	24	12
CIE3R-SUBP003-P6-3			
CIE3R-SUBP005-P6-3			
CIE3R-SUBP007-P6-3			
CIE3R-SUBP010-P6-3	35	24	12
CIE3R-SUBP015-P6-3			
CIE3R-SUBP020-P6-3			
CIE3R-SUBP025-P6-3	41	24	12
CIE3R-SUBP030-P6-3	47	24	14
CIE3R-SUBP040-P6-3	55	36	16
CIE3R-SUBP050-P6-3			
CIE3R-SUBP060-P6-3			
CIE3R-SUBP075-P6-3	60	60	24
CIE3R-SUBP100-P6-3			
CIE3R-SUBP125-P6-3			

Drive Dimensions (Centrifugals)

P-Series Model No.	H	W	D
CIE3R-CENP003-P2-1	29	24	12
CIE3R-CENP005-P2-1			
CIE3R-CENP007-P2-1			
CIE3R-CENP010-P2-1	35	24	12
CIE3R-CENP015-P2-1	41	24	12
CIE3R-CENP020-P2-1	41	24	12
CIE3R-CENP003-P2-3	29	24	12
CIE3R-CENP005-P2-3			
CIE3R-CENP007-P2-3			
CIE3R-CENP010-P2-3	35	24	12
CIE3R-CENP015-P2-3			
CIE3R-CENP020-P2-3			
CIE3R-CENP030-P2-3	47	24	14
CIE3R-CENP003-P4-1	29	24	12
CIE3R-CENP005-P4-1			
CIE3R-CENP007-P4-1			
CIE3R-CENP010-P4-1	35	24	12
CIE3R-CENP015-P4-1	41	24	12
CIE3R-CENP020-P4-1	47	24	14
CIE3R-CENP025-P4-1			
CIE3R-CENP030-P4-1			
CIE3R-CENP040-P4-1	55	36	16
CIE3R-CENP050-P4-1			
CIE3R-CENP060-P4-1			
CIE3R-CENP075-P4-1	60	60	24
CIE3R-CENP100-P4-1			
CIE3R-CENP125-P4-1			
CIE3R-CENP150-P4-1	72	60	24
CIE3R-CENP200-P4-1			
CIE3R-CENP003-P4-3			
CIE3R-CENP005-P4-3	35	24	12
CIE3R-CENP007-P4-3			
CIE3R-CENP010-P4-3			
CIE3R-CENP015-P4-3	41	24	12
CIE3R-CENP020-P4-3			
CIE3R-CENP025-P4-3			
CIE3R-CENP030-P4-3	47	24	14
CIE3R-CENP040-P4-3			
CIE3R-CENP050-P4-3			
CIE3R-CENP060-P4-3	55	36	16
CIE3R-CENP075-P4-3			
CIE3R-CENP100-P4-3			
CIE3R-CENP125-P4-3	60	60	24
CIE3R-CENP150-P4-3			
CIE3R-CENP200-P4-3			
CIE3R-CENP250-P4-3	72	60	24
CIE3R-CENP300-P4-3			
CIE3R-CENP350-P4-3			
CIE3R-CENP002-P6-3	29	24	12
CIE3R-CENP003-P6-3			
CIE3R-CENP005-P6-3			
CIE3R-CENP007-P6-3			
CIE3R-CENP010-P6-3	35	24	12
CIE3R-CENP015-P6-3			
CIE3R-CENP020-P6-3			
CIE3R-CENP025-P6-3	41	24	12
CIE3R-CENP030-P6-3	47	24	14
CIE3R-CENP040-P6-3	47	24	14
CIE3R-CENP050-P6-3			
CIE3R-CENP060-P6-3			
CIE3R-CENP075-P6-3	55	36	16
CIE3R-CENP100-P6-3			
CIE3R-CENP125-P6-3			



\*All measurements in inches  
 † Non-Combination model numbers end with "N"

## Ordering & Sizing Information

### P-Series 200-230 V (Stand Alone Drive)

Single-Phase & Three-Phase

Model No.	Output Max Amps		3% Line Reactor **
	1Ø	3Ø	Model No.
CI-007-P2	12	24	KDRULB23LE01
CI-010-P2	16	32	KDRULD25LE01
CI-015-P2	23	46	KDRULD24LE01
CI-020-P2	30	60	KDRULD26LE01
CI-025-P2	37	74	KDRULC22LE01
CI-030-P2	44	88	KDRULF24LE01
CI-040-P2	57	115	KDRULF25LE01

\* Phase refers to incoming power, not motor.

\*\* 3% Line Reactors are sold separately from stand alone drives.

NOTE: The drive MUST BE sized according to the motor manufacturer's maximum amperage draw. Upsize VFD for ambient temperature compensation (see VFD specs for temperature rating).

### P-Series 480 V (Stand Alone Drive)

Single-Phase & Three-Phase

Model No.	Output Max Amps		3% Line Reactor**
	1Ø	3Ø	Model No.
CI-007-P4	6	12	KDRULA4LE01
CI-010-P4	8	16	KDRULA5LE01
CI-015-P4	12	24	KDRULB2LE01
CI-020-P4	15	30	KDRULB1LE01
CI-025-P4	19	39	KDRULD1LE01
CI-030-P4	22	45	KDRULD2LE01
CI-040-P4	30	61	KDRULC1LE01
CI-050-P4	32	75	KDRULF2LE01
CI-060-P4	45	91	KDRULF4LE01
CI-075-P4	55	110	KDRULF3LE01
CI-100-P4	76	152	KDRULH3LE01
CI-125-P4	94	183	KDRULH2LE01
CI-150-P4	111	223	KDRULH1LE01
CI-200-P4	132	264	KDRULG3LE01
CI-250-P4	162	325	KDRULG1LE01
CI-350-P4	216	432	KDRULJ2LE01
CI-400-P4	273	547	KDRULJ1LE01

\* Phase refers to incoming power, not motor.

\*\* 3% Line Reactors are sold separately from stand alone drives.

NOTE: The drive MUST BE sized according to the motor manufacturer's maximum amperage draw. Upsize VFD for ambient temperature compensation (see VFD specs for temperature rating).

**P-Series 575 V (Stand Alone Drive)***Three-Phase*

Model No.	Output Max Amps	3% Line Reactor **
	3Ø	Model No.
CI-007-P6	9	KDRULA48LE01
CI-010-P6	12	KDRULA49LE01
CI-015-P6	17	KDRULA45LE01
CI-020-P6	23	KDRULB44LE01
CI-025-P6	27	KDRULB43LE01
CI-030-P6	34	KDRULD42LE01
CI-040-P6	43	KDRULC43LE01
CI-050-P6	55	KDRULC44LE01
CI-060-P6	664	KDRULF46LE01
CI-075-P6	80	KDRULF47LE01
CI-100-P6	104	KDRULF45LE01
CI-125-P6	128	KDRULH43LE01

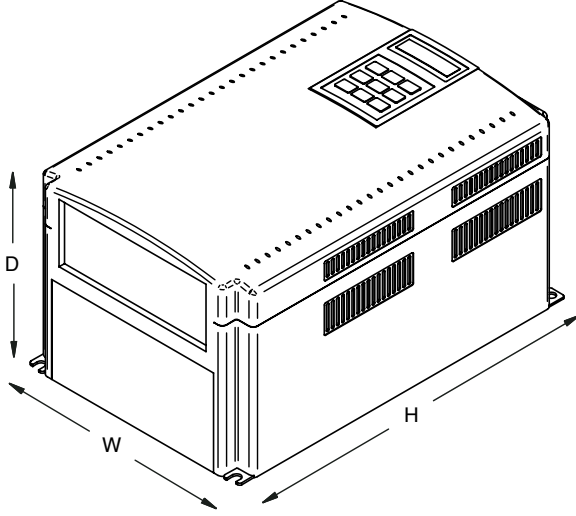
\* Phase refers to incoming power, not motor.

\*\* 3% Line Reactors are sold separately from stand alone drives.

NOTE: The drive MUST BE sized according to the motor manufacturer's maximum amperage draw. Upsize VFD for ambient temperature compensation (see VFD specs for temperature rating).



## P-Series Large Drive Dimension



\* Line Reactors housed in separate UL/NEMA 1 Type Enclosure

P-Series Drive	H	W	D
CI-007-P2	11.18	5.91	6.16
CI-007-P4			
CI-007-P6	13.98	7.87	7.19
CI-010-P2			
CI-010-P4	11.18	7.87	7.16
CI-010-P6	13.98	7.87	7.19
CI-015-P2			
CI-015-P4	11.18	7.87	7.16
CI-015-P6	13.98	7.87	7.19
CI-020-P2			
CI-020-P4	15.16	9.84	7.91
CI-020-P6	15.16	9.84	7.91
CI-025-P2			
CI-025-P4	15.16	9.84	7.91
CI-025-P6	15.16	9.84	7.91
CI-030-P2			
CI-030-P4	18.11	11.97	9.21
CI-030-P6	18.11	11.97	9.21
CI-040-P2			
CI-040-P4	18.11	11.97	9.21
CI-040-P6	18.11	11.97	9.21
CI-050-P4	25.28	11.81	10.46
CI-050-P6	25.28	11.81	11.52
CI-060-P4	25.28	11.81	10.46
CI-060-P6	25.28	11.81	11.52
CI-075-P4	25.28	11.81	11.52
CI-075-P6	25.28	11.81	11.52
CI-100-P4	30.22	14.57	13.29
CI-100-P6	30.22	14.57	13.29
CI-125-P4	30.22	14.57	13.29
CI-125-P6	30.22	14.57	13.29
CI-150-P4	30.87	20.08	16.64
CI-150-P6	30.87	20.08	16.64
CI-200-P4	30.87	20.08	16.64
CI-250-P4	33.9	20.08	16.64
CI-350-P4	42.44	27.17	17.70
CI-400-P4			
CI-500-P4	44.9	30.4	17.4
CI-600-P4			
CI-700-P4	51.3	36.3	19.5

\*All measurements in inches

## P-Series Accessories

### Line Reactors 208-240 V (for Stand Alone Drives ONLY)

UL/NEMA 1 Enclosure

Voltage	AMPS	Model No.	Description
208/240 V, 3%	3	KDRULA54LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 3 Amps
	4.2	KDRULA53LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 4.2 Amps
	5.5	KDRULA25LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 5.5 Amps
	8	KDRULA26LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 8 Amps
	10	KDRULA27LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 10 Amps
	12	KDRULA28LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 12 Amps
	19	KDRULB22LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 19 Amps
	25	KDRULB23LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 25 Amps
	34	KDRULD25LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 34 Amps
	48	KDRULD24LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 48 Amps
	62	KDRULD26LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 62 Amps
	80	KDRULC22LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 80 Amps
	100	KDRULF24LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 100 Amps
	118	KDRULF25LE01	3%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 118 Amps
208/240 V, 5%	3	KDRULA54HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 3 Amps
	5	KDRULA53HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 5 Amps
	5	KDRULA25HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 5 Amps
	7.5	KDRULA27HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 7.5 Amps
	10	KDRULA26HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 10 Amps
	11	KDRULA28HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 11 Amps
	17	KDRULB25HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 17 Amps
	26	KDRULB26HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 26 Amps
	31	KDRULD21HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 31 Amps
	47	KDRULD22HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 47 Amps
	62	KDRULC22HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 62 Amps
	75	KDRULF28HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 75 Amps
	92	KDRULF25HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 92 Amps
	114	KDRULF26HE01	5%, 208/240 V, Enclosed Type 1 Line Reactor, UL Listed, 114 Amps

## P-Series Accessories

### Line Reactors 480 V (for Stand Alone Drives ONLY)

UL/NEMA 1 Enclosure

Voltage	AMPS	Model No.	Description
480 V, 3%	1.5	KDRULA6LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 1.5 Amps
	1.6	KDRULA7LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 1.6 Amps
	2.1	KDRULA8LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 2.1 Amps
	3	KDRULA9LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 3 Amps
	6.4	KDRULA1LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 6.4 Amps
	6	KDRULA2LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 6 Amps
	9.6	KDRULA3LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 9.6 Amps
	14	KDRULA4LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 14 Amps
	14	KDRULA5LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 14 Amps
	30	KDRULB2LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 30 Amps
	30	KDRULB1LE01	3%, 480 V, Enclosed Type 1 Line Reactor, UL Listed, 30 Amps
	50	KDRULD1LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 50 Amps
	45	KDRULD2LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 45 Amps
	55	KDRULC1LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 55 Amps
	65	KDRULF2LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 65 Amps
	77	KDRULF4LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 77 Amps
	110	KDRULF3LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 110 Amps
	150	KDRULH3LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 150 Amps
	165	KDRULH2LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 165 Amps
	185	KDRULH1LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 185 Amps
240	KDRULG3LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 240 Amps	
370	KDRULG2LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 370 Amps	
500	KDRULJ2LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 500 Amps	
520	KDRULJ1LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 520 Amps	
610	KDRULL2LE01	3%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 610 Amps	
480 V, 5%	1.5	KDRULA6HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 1.5 Amps
	1.6	KDRULA7HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 1.6 Amps
	2.1	KDRULA8HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 2.1 Amps
	4	KDRULA1HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 4 Amps
	6	KDRULA2HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 6 Amps
	8	KDRULA3HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 8 Amps
	12	KDRULA4HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 12 Amps
	14	KDRULA5HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 14 Amps
	27	KDRULB2HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 27 Amps
	27	KDRULC3HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 27 Amps
	35	KDRULC1HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 35 Amps
	45	KDRULE2HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 45 Amps
	60	KDRULF4HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 60 Amps
	85	KDRULF1HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 85 Amps
	77	KDRULF2HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 77 Amps
	100	KDRULH2HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 100 Amps
	125	KDRULI2HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 125 Amps
	160	KDRULG3HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 160 Amps
	185	KDRULG1HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 185 Amps
	240	KDRULJ1HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 240 Amps
310	KDRULL1HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 310 Amps	
365	KDRULL2HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 365 Amps	
435	KDRULL3HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 435 Amps	
480	KDRULL4HE01	5%, 480V, Enclosed Type 1 Line Reactor, UL Listed, 480 Amps	

## P-Series Accessories - Continued

### Line Reactors 600 V (for Stand Alone Drives ONLY)

UL/NEMA 1 Enclosure

Voltage	AMPS	Model No.	Description
600 V	10.4	KDRULA48LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 10.4 Amps
	11	KDRULA49LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 11 Amps
	19.5	KDRULA45LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 19.5 Amps
	24	KDRULB44LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 24 Amps
	30	KDRULB43LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 30 Amps
	32	KDRULD42LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 32 Amps
	41	KDRULC43LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 41 Amps
	52	KDRULC44LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 52 Amps
	62	KDRULF46LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 62 Amps
	77	KDRULF47LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 77 Amps
	99	KDRULF45LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 99 Amps
	125	KDRULH43LE01	3%, 600 V, Enclosed Type 1 Line Reactor, UL Listed, 125 Amps

### Output Reactors 480 V (for Stand Alone Drives ONLY)

UL/NEMA 1 Enclosure

Voltage	AMPS	Model No.	Description
480 V	4	KDRULA1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 4 Amps
	6	KDRULA2PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 6 Amps
	8	KDRULA3PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 8 Amps
	12	KDRULA4PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 12 Amps
	16	KDRULB1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 16 Amps
	21	KDRULD1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 21 Amps
	27	KDRULD2PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 27 Amps
	35	KDRULD3PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 35 Amps
	45	KDRULD4PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 45 Amps
	55	KDRULC1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 55 Amps
	80	KDRULF1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 80 Amps
	80	KDRULF2PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 80 Amps
	110	KDRULF3PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 110 Amps
	130	KDRULH1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 130 Amps
	160	KDRULI1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 160 Amps
	200	KDRULI2PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 200 Amps
	250	KDRULG1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 250 Amps
	310	KDRULJ1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 310 Amps
	365	KDRULJ2PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 365 Amps
	420	KDRULL1PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 420 Amps
480	KDRULL2PE01	3%, 480 V, Enclosed Type 1 Load Reactor, UL Listed, 480 Amps	

## Output Reactors 600 V (for Stand Alone Drives ONLY)

UL/NEMA 1 Enclosure

Voltage	AMPS	Model No.	Description
600 V	4	KDRULA31PE01	575V, UL Type 1 Enclosed Output Reactor, 4 Amps
	4	KDRULA35PE01	575V, UL Type 1 Enclosed Output Reactor, 4 Amps
	8	KDRULA33PE01	575V, UL Type 1 Enclosed Output Reactor, 8 Amps
	12	KDRULA34PE01	575V, UL Type 1 Enclosed Output Reactor, 12 Amps
	12	KDRULA36PE01	575V, UL Type 1 Enclosed Output Reactor, 12 Amps
	18	KDRULD31PE01	575V, UL Type 1 Enclosed Output Reactor, 18 Amps
	25	KDRULD32PE01	575V, UL Type 1 Enclosed Output Reactor, 25 Amps
	27	KDRULD35PE01	575V, UL Type 1 Enclosed Output Reactor, 27 Amps
	35	KDRULD33PE01	575V, UL Type 1 Enclosed Output Reactor, 35 Amps
	45	KDRULD34PE01	575V, UL Type 1 Enclosed Output Reactor, 45 Amps
	55	KDRULC31PE01	575V, UL Type 1 Enclosed Output Reactor, 55 Amps
	80	KDRULF31PE01	575V, UL Type 1 Enclosed Output Reactor, 80 Amps
	80	KDRULF32PE01	575V, UL Type 1 Enclosed Output Reactor, 80 Amps
	130	KDRULH31PE01	575V, UL Type 1 Enclosed Output Reactor, 130 Amps

## P-Series Accessories - Continued

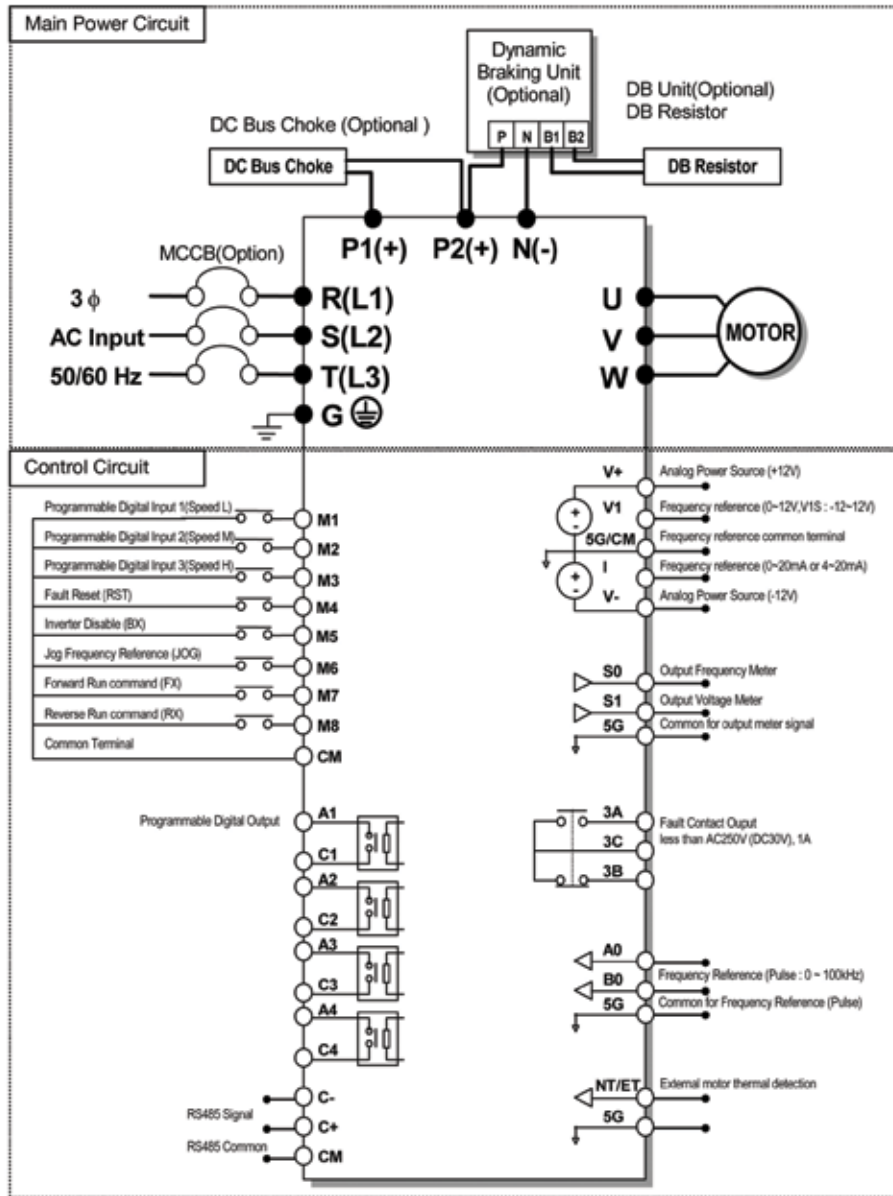
### Output Filters (for Stand Alone Drives ONLY)

UL/NEMA 1 Enclosure

Voltage	AMP	Model No.	Wt. (lbs)	Description
240-600 V	2	V1K2A01	11	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	3	V1K3A01	11	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	4	V1K4A01	11	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	6	V1K6A01	11	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	8	V1K8A01	11	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	12	V1K12A01	11	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	18	V1K18A01	15	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	21	V1K21A01	15	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	25	V1K25A01	15	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	27	V1K27A01	15	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	35	V1K35A01	23	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	45	V1K45A01	23	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	55	V1K55A01	23	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	80	V1K80A01	29	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	110	V1K110A01	68	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	130	V1K130A01	83	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	160	V1K160A01	83	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	200	V1K200A01	93	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	250	V1K250A01	93	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	305	V1K305A01	117	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
	362	V1K362A01	117	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V
420	V1K420A01	132	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V	
480	V1K480A01	138	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V	
600	V1K600A01	168	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V	
750	V1K750A01	180	V1K, KLC Series Output Filter, N1 Enclosed, 240-600 V	

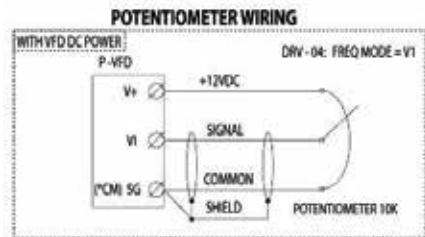
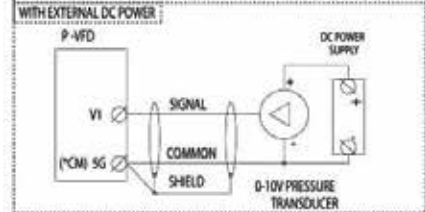
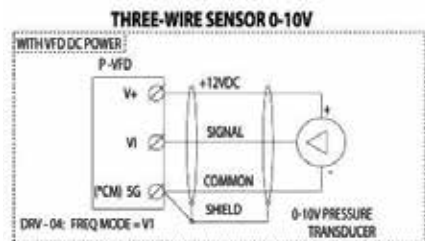
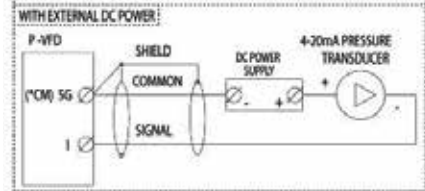
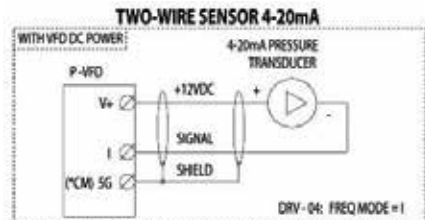
# Wiring Diagram

1) For 5.5~90kW (7.5~125 hp)



- Note : 1) 5G is Common Ground for Analog Input/Output for 7.5-40HP
- 2) 5G is Common Ground for Analog Meter Output (S0,S1) and External motor thermal detection (ET).
- 3) Use terminal V1 for V1, V1S (0~12V -12 ~ 12V) input.

\*For general reference only, not field wiring. Consult installation instructions.



\*NOTE: USE "5G" FOR 7.5-40HP VFDs and "CM" FOR OVER 40HP VFDs.

## P-Series Drive Specifications

P-Series Drive Specifications		
<b>Output Ratings</b>	Voltage (V)	Three-phase, 200~230 V, Three-phase, 380~480 V, Three phase 525~600V
	Frequency (Hz)	0~120 Hz
<b>Input Ratings</b>	Voltage (V)	Single/Three -phase, 200~230 V (-15%, +10%), Single/Three-phase, 380~480 V (-15%, +10%), Three-phase 525~600 V (-15%, +10%)
	Frequency (Hz)	50~60 Hz ( $\pm 5\%$ )
	Input Power Factor	> .95 from no load to full load
<b>Operation</b>	Drive Efficiency	> 96%
	Control Method	V/F control, sensorless vector control
	Frequency Setting Resolution	Digital reference: 0.01 Hz (below 99 Hz) & 0.1 Hz (100 Hz and over); Analog reference: 0.06 Hz at 60 Hz
	Frequency Setting Accuracy	Digital: 0.01% of maximum output frequency; Analog: 0.1% of maximum output frequency
	V/F Ratio	Linear, Square, User V/F
	Overload Capacity	1 minute at 120%, 10 seconds at 150% (with inverse characteristic proportional to time)
	Torque Boost	Auto, manual (0~15%)
	Multi-Function Input Terminals	Total 8 inputs (programmable)
	Analog Output	0~10 V linear
<b>Input Signal</b>	Operator Control	32-character LCD keypad, Terminals, ModBus-RTU communication Optional, ProfiBus-DP, DeviceNet, F-Net, BACnet, LonWorks
	Frequency Setting	Analog: 0~10 V, 4~20mA, additional port for Sub-Board (0~10 V); Digital: Keypad, Communication
	Start Signal	Forward, reverse
	Multi-Step Operation	Setting up to 17 speeds (using multi-function terminal)
	Multi-Step Accel/Decel Time	0.1~6000 seconds. Maximum 8 pre-defined steps using multi-function terminals
	Operational Functions	DC braking, frequency limit, frequency jump, second motor function, slip compensation, reverse rotation prevention, auto restart, inverter bypass, auto-tuning, dual PID control
	Emergency Stop	Stops output from inverter
	Auto Operation	Operates from internal sequence by setting multi-function terminal (5 way x 8 step)
	Jog	Jog operation
<b>Output Signal</b>	Fault Reset	Resets fault signal when protective function is active
	Operational Status	Frequency detection, overload alarm, stall, overvoltage, undervoltage, inverter overheat, run, stop, constant speed, speed search, fault output, inverter bypass, auto-operation sequence
<b>Protective Functions</b>	Indicator	Output frequency, output current, output voltage, DC voltage, output torque (output voltage: 0~10 V)
	Trip	Overvoltage, undervoltage, overcurrent, inverter overheat, motor overheat, I/O-phase loss, fuse open, ground fault, external fault 1, 2, option fault, overload, speed command loss, hardware fault, communication error, etc.
<b>Operating Environment</b>	Alarm	Stall, overload temperature sensor fault
	Ambient Temperature	-10~40 °C (50 °C when derated 20%) or 14~104 °F (122 °F when derated 20%)
	Storage Temperature	-20 ~65 °C or -4~149.5 °F
	Humidity	Less than 95% relative humidity maximum (non-condensing)
	Vibration	Below 5.9m <sup>2</sup> /sec (=0.6g)
	Altitude	Below 1,000 m (3,300 ft): derate VFD by 10% for every additional 1,000 m
	Application Site	Pollution degree 2. no corrosive gas, combustible gas, oil mist or dust