

Benefits and Features

Logix® Vanguard Variable Speed Control Panel

The Logix Vanguard variable speed control panel for industrial refrigeration applications integrates seamlessly with Logix® Axiom™ control systems.



The Vanguard panel includes

- 7.5 to 400 HP, 480VAC, 3Ø
- Standard or custom configurations
- Quick delivery
- 5-Year warranty
- FastApp™ startup makes commissioning quick

Options

- Input line reactors
- Output reactors and filters
- Panel space heater for low temperature or outdoor applications
- Spray pump starters
- Basin heater controls
- Vibration cut-out

Standard Features

- HOA switches
- 3-Contactor bypass for VFD servicing
- UL Type 1 and 3R enclosures
- Custom configured ventilation or A/C
- Backlit 32-character keypad for easy navigation
- Space vector control for efficiency, long motor life
- Advanced PID control (pre-PID and dual PID)
- Multi-motor control function
- Automatic energy savings mode
- Flying start protection
- Standard MMS disconnect, HOA & VFD/OFF/BYPASS switch
- Built-in modbus RTU communication





Vanguard 3-Phase, 380~480V — P-Series VFD Bypass

Standard duty (VT)		3-Contactor Bypass with Drive Isolation	Line Reactor	
HP	kW Rating	UL Type 3R	Installed 3%	Installed 5%
1	2	CIE3R-BYP001-P4/3	VFD-KDRA8L	VFD-KDRA8H
2	3.2	CIE3R-BYP002-P4/3	VFD-KDRA1L	VFD-KDRA1H
3	4.8	CIE3R-BYP003-P4/3	VFD-KDRA2L	VFD-KDRA2H
5	6.4	CIE3R-BYP005-P4/3	VFD-KDRA3L	VFD-KDRA3H
7.5	5.5	CIE3R-BYP007-P4/3	VFD-KDRA4L	VFD-KDRA4H
10	7.5	CIE3R-BYP010-P4/3	VFD-KDRA5L	VFD-KDRA5H
15	11	CIE3R-BYP015-P4/3	VFD-KDRB2L	VFD-KDRB2H
20	15	CIE3R-BYP020-P4/3	VFD-KDRB1L	VFD-KDRC3H
25	18.5	CIE3R-BYP025-P4/3	VFD-KDRD1L	VFD-KDRC1H
30	22	CIE3R-BYP030-P4/3	VFD-KDRD2L	VFD-KDRE2H
40	30	CIE3R-BYP040-P4/3	VFD-KDRC1L	VFD-KDRF4H
50	37	CIE3R-BYP050-P4/3	VFD-KDRF2L	VFD-KDRF1H
60	45	CIE3R-BYP060-P4/3	VFD-KDRF4L	VFD-KDRF2H
75	55	CIE3R-BYP075-P4/3	VFD-KDRF3L	VFD-KDRH2H
100	75	CIE3R-BYP100-P4/3	VFD-KDRH3L	VFD-KDRH1H
125	90	CIE3R-BYP125-P4/3	VFD-KDRH2L	VFD-KDRG3H

Vanguard

EVAPORATIVE CONDENSER CONTROL

Stand Alone Automation Control

Building Automation Control Option

Scalable to Meet any Application

ADDITIONAL OPTIONS

Basin Heater Control

- Prevents freezing
- Contactor activated by external signal (i.e., thermostat)
- Provision for low water protection

Vibration Cut-out

- Provision for switch cut-out

Water Level Control Power

- Provides 120VAC @ 2A

Panel Space Heater

- To prevent condensation and freezing

Line Reactors

- For use in systems with unstable utility power, long leads from service transformer to VFD and/or when power source is greater than 10 times the kVA rating of the inverter
- Provides harmonic distortion filtering

Output Reactor/Filters

- Use when leads drive to motor exceed 35' at 480VAC or greater.
- Above 100' use output filter
- Decreases level of voltage spikes to prevent motor insulation breakdown

Spray Pump Starter

- Full voltage starter with overload relay
- HOA switch provided
- Status indication options