

# Q-LINK STAND-ALONE VFD 1-28A, 208-480VAC, 3Ø

## EASIER & MORE RELIABLE

The Q-link is a revolutionary new connected drive. Control and support via a smartphone provides a simple, intuitive user experience that greatly enhances and expedites setup and support.

## FEATURES

- Simple and intuitive display
- Designated HOA buttons
- Native communications (BACnet & Modbus)
- R3 Filtering for harmonic mitigation
- Built in damper control
- Compact UL Type 1 frame
- Finger-safe power terminals
- Meets latest harmonized UL standard

## Q-LINK COMPANION APP

- Guided start-up
- In-app troubleshooting solutions
- Pre-call fault and troubleshooting reports
- Over-the-air firmware updates
- Monitoring via Bluetooth® connection
- Start-up report generation
- iOS & android compatible
- Save and store device settings
- Create configuration templates

## ORDERING & SIZING INFORMATION - UL TYPE 1

PART NUMBER	UL HP RATINGS			MAX AMPS
	208VAC	230VAC	380-480VAC	
QLNK-003-DV	0.5	0.5	1.5	3
QLNK-005-DV	1	1	3	5
QLNK-009-DV	2	2	5	9
QLNK-012-DV	3	3	7.5	12
QLNK-017-DV	5	5	10	17
QLNK-024-DV	5	7.5	15	24
QLNK-028-DV	7.5	10	20	28



Download the Companion App

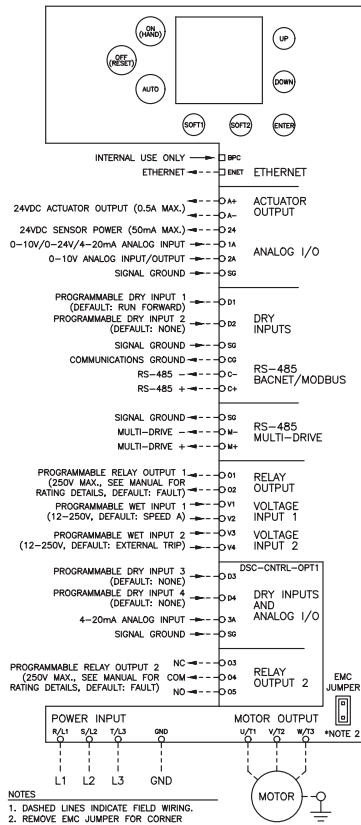


## Q-LINK SPECIFICATIONS TABLE

Specifications		
Input ratings	Voltage (V)	Three phase, 208–480V (-10%, +15%)
	Frequency (Hz)	50-60Hz (±5%)
	Efficiency	>=98%, Full Load and Full Voltage
	Input Power Factor	>.99
Output ratings	Current	1–28A (208-480V)
	Voltage (V)	0-100% of Supply Voltage
	Frequency (Hz)	0-240Hz
Control	Control method	V/F Scalar Pulse Width Modulation
	Carrier Frequency	2kHz - 10kHz, 0.1kHz resolution, Default 2.5kHz
	Output Frequency Resolution	0.01Hz
	Frequency Setting Accuracy	Digital: 0.01 % of Max. Output Frequency Analog: 1% of Max. Output Frequency
	V/F ratio	Linear, Square Pattern
	Overload Capacity	110% for 60s
Operation	Operation Method	OLED display and keypad, HOA buttons, Terminals, Bluetooth® mobile app, Communications
	Programming Method	OLED display and keypad, Bluetooth® mobile app, Communications
	PID	Standard
	Communications Interface	Physical (RS-485, Bluetooth®) Protocols (Native BACnet MS/TP Modbus RTU)*
	Logging	Faults/Alarms/Parameter Changes - w/ Real Time & Date)
	Indication	3 LEDs: Hand, Off, Auto
Dry Inputs	Operation Functions	Frequency Limit / Skip Frequencies / Reverse Rotation Prevention / Auto Restart / Flying Start / Damper Control / Motor Pre-Heat / Torque Boost / Stall Prevention / DC Trip Prevention / DC Braking / DC Start / Analog Signal Loss / Auto Bypass (Bypass models only) / Fireman's Override / Auto Fault Restart
	Count	4 configurable (NO or NC)
	Programmable Inputs	None / Enable / Fireman's Override / Speed- A / Speed- B / Setpoint-A / Setpoint-B / Damper LSW / Flow Switch / External Trip / Run Forward / Run Reverse / 2nd Acc/Dec Time / 3-Wire Start / 3-Wire Stop / HOA Auto / HOA Hand / Shutdown / Fault Reset / Bypass / Switch 1A to 2A/3A
	Logic	PNP or NPN
	Voltage Level	24 VDC, 5mA Max
Wet (Voltage) Inputs	Count	2 configurable
	Programmable Inputs	None / Enable / Fireman's Override / Speed- A / Speed- B / Setpoint-A / Setpoint-B / Damper LSW / Flow Switch / External Trip / Run Forward / Run Reverse / 2nd Acc/Dec Time / 3-Wire Start / 3-Wire Stop / HOA Auto / HOA Hand / Shutdown / Fault Reset / Bypass / Switch 1A to 2A/3A
	Voltage Level	12-240 ± 10%V, 5mA Max
Analog I/O	Count	3 Selectable: 1A = AI 0-10V/0-24V/4-20mA / 2A = AIO - 0-10V input or 0-10V/4-20mA output / 3A = AI 4-20mA
	Mode	Voltage or Current
	Level	0-10VDC or 4-20mA
Analog Output	Control Power	24VDC, 50mA Max
Damper Output	Count	1 damper actuator output
	Control Power Rating	24VDC, 0.5A Max
Relay Outputs	Count	2 Relay Outputs
	Programmable	Status, Run, Fault, SW Configurable
	Control Power Rating	125VAC, 1.25Amp Max, switching voltage 250VAC
Protection	Functions	OV/UV (Line or DC Bus) / Inverter Over Current / Inverter Overheat / Input Phase Loss / Output Phase Open / Ground Fault / Locked Rotor / Stall / Under Power / Over Power / Inverter Short Circuit Protection / Temperature Sensor Fault / Communication Loss / Loss of Analog Signal / Hardware Fault / Broken Belt / Max time to start / Bypass contactor
	Short Circuit Rating	100 kAIC fused protected
Environmental	Ambient Temperature	-10 to 40°C (104°F), 50°C (122°F), 45°C (113°F) achievable following derate rules
	Storage Temperature	-20 to 65°C (-4°F to 149°F)
	Location	Pollution Degree 2 Environment
	Altitude	1000m (3280ft) above sea level. De-rate 10% for installations up to 2000m (6560ft). Additional 20% for installations 2000-3000m (6560-9840ft). *OR reduce max ambient temp rating by 1°C per 200m (6560ft) altitude above 1000m (3280ft)
	Relative Humidity	95% Relative Humidity (non-condensing)
Certifications	Agency Approvals	UL, cUL
	Safety	UL 61800-5-1 (Harmonized Safety Standard)
	Enclosure Rating	UL Type 1, (Available packaged as UL Type 12, UL Type 3R, UL Type 4X)
	Keypad Rating	UL Type 1
	Harmonic Distortion	R3Filtering ≤ 35% to address IEEE519 and EN50160
	EMC	EN 61800-3 (Radiated and Conducted Emissions)
	CE	Electromagnetic compatibility 2004/108/EEC, Low-voltage directive 2006/95/EEC

# Q-LINK VFD SCHEMATIC AND DIMENSIONS

## WIRING DIAGRAM



## Q-LINK DIMENSIONS

Q-Link VFD	W x H x D
QLNK-003-DV	5.5" x 15.75" x 6.75"
QLNK-005-DV	
QLNK-009-DV	
QLNK-012-DV	
QLNK-017-DV	
QLNK-024-DV	
QLNK-028-DV	

