

VLT[®] Micro Drive

Mains Supply (L1, L2, L3):

Supply voltage	1 x 200–240 V ±10%
	3 x 200–240 V ±10%
	3 x 380–480 V ±10%

Output Data (U, V, W):

Output voltage.....	0–100% of supply voltage
Output frequency.....	0–200 Hz (VVC+ mode)
	0–400 Hz (V/Hz mode)
Switching on output	Unlimited
Ramp times.....	0.05–3600 sec.

Digital Inputs:

Programmable inputs.....	5
Logic.....	Selectable sourcing high (24 V) or sinking low (0 V)
Voltage level.....	0–24 V
Maximum voltage on input.....	28 VDC
Input Resistance	Approx. 4 k Ω

Pulse Inputs:

Programmable pulse inputs.....	1
Voltage level.....	0–24 VDC (PNP positive logic)
Pulse input accuracy (0.1–110 kHz)	Max. error: 0.1% of full scale
Pulse input frequency.....	20–5000 Hz

Analog Input:

Analog inputs	2
Modes.....	1 current/1 voltage or current
Voltage level.....	0–10 V (scaleable)
Current level.....	0/4–20 mA (scaleable)

Analog Output:

Programmable analog outputs.....	1
Current range at analog output.....	0/4–20 mA
Max. load to common at analog output.....	500 Ω
Accuracy on analog output.....	Max. error: 1% of full scale

On-Board Power Supply:

Output voltage.....	10.5 ± 0.5 V
Max. load	
10 V.....	15 mA
24 V.....	130 mA

Relay Outputs:

Programmable relay outputs.....	1
Max. terminal load	
Resistive	240 VAC, 2 A
Inductive.....	250 VAC, 0.2 A

Cable Lengths:

Max. motor cable length	
Shielded.....	50 ft (15 m)
Unshielded.....	165 ft (50 m)

Environmental Operating Conditions:

Enclosure	IP20 standard; NEMA/UL Type 1 and IP21 optional
Vibration test.....	0.7 g
Max. relative humidity.....	5%–95% (IEC 721-3-3; Class 3K3 (non-condensing) during operation
Aggressive environment.....	(IEC 721-3-3), coated class 3C3
Ambient operating temperature.....	Max. 122° F
24-hour average operating temperature	Max. 104° F

Protection and Features:

- Electronic thermal motor protection against overload
- Temperature monitoring of the heat sink protects the drive from overheating
- The drive is protected against short-circuits on motor terminals U, V, W
- The drive is protected against ground fault on motor terminals U, V, W

General Specifications

Connections

