

Basic Frequency Inverter Questions

NORD Gear Corporation
PO Box 367 • 800 Nord Drive
Waunakee, WI 53597

1. **What is the Application?** (Material handling, lifting, positioning, pump, ect.....)

2. What is the connected Voltage available at the job site?

110-120V 1ph 200 240V 1ph 200 240V 3ph 380 500V 3ph

3. What is the frequency of the supply where the drive will ultimately be installed?

50Hz 60Hz

4. **What is the HP or kW rating?**

0.25kW/0.33hp 0.37kW/0.5hp 0.55kW/0.75hp 0.75kW/1hp 1.1kW/1.5hp

2.2kW/3hp 3.7kW/5hp 5.5kW/7.5hp 7.5kW/10hp 11kW/15hp

15kW/20hp 18.5kW/25hp 22kW/30hp 30kW/40hp 37kW/50hp

45kW/60hp 55kW/75hp 75kW/100hp 90kW/125hp

110kW/150hp 132kW/180hp 160kW/220hp

Other _____

5. **Does the customer want a Motor mounted or panel mountable Frequency inverter?**

Motor Mount

Options: IP55 OR IP66

Panel Mount

Options: IP20

6. **Speed Range?** (minimum & maximum speed the machine will run)

7. Environment? (Temperature, indoors or outdoors, any special requirements)

8. Source of Speed Control? (Local operators only? Local & Remote? Field Bus? PLC?)

Local Operator Digital/Analog I/O

Field Bus:

Profibus ProfiNET Canopen EtherCAT PowerLink EtherNET IP
 DeviceNet AS Interface

9. Source of Run Command? (Local operators only? Local & Remote? Field Bus ? PLC?)

Local Operator Digital/Analog I/O

Field Bus:

Profibus ProfiNET Canopen EtherCAT PowerLink EtherNET IP
 DevicNet AS Interface

10. Does the customer require a Motor Brake?

No	Yes	If yes Coil Voltage VDC:	24	105	180	205	225	250
----	-----	--------------------------	----	-----	-----	-----	-----	-----

11. What's the duty cycle?

12. Is an Encoder needed?

Encoder Type:

Incremental Optical Incremental Magnetic Absolute

Encoder Pules Count:

1024PPR 2048PPR 4096PPR

Encoder Output Logic:

TTL HTL

13. What is the quantity and annual volume?

14. How many i/o are needed? (What kind Analog or Digital)

Digital IN ____ Digital OUT ____ Analog IN ____ Analog Out ____

15. Is Safe Torque Off Required?

Yes No

16. Is 24v generated by the inverter or is it externally generated?

Inverter Generated Externally Generated

17. What method of programming is required?

Laptop/Software Handheld keypad
Panel mounted keypad Drive mounted keypad

18. Requested lead time?

19. Is the installation above 1000m?

20. Do you currently have any NORD Products?

21. Is the inverter being used with a NORD motor?

If additional help is needed filling out this form please contact Nord Gear Corporation and ask to speak with the Inverters Department.