

# Basic Frequency Inverter Questions

NORD Gear Corporation  
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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

Wall Mount

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
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**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.