



## Review - Matching

1. Change Reference \_\_\_\_\_
2. Maintain Speed \_\_\_\_\_
3. Ramp Up \_\_\_\_\_
4. Direction Change \_\_\_\_\_
5. Ramp Down \_\_\_\_\_
6. Limits \_\_\_\_\_
7. Saves Energy \_\_\_\_\_
8. 3-Phase AC Motor \_\_\_\_\_

Letter selection, the definitions, A – H are in the notes.

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### Matching:

- A.** Slowly starts the motor and increases the speed over a certain amount of time, say 60 seconds, before it achieves the reference speed. This is also known as acceleration.
- B.** Slowly stops the motor and decreases the speed over a certain amount of time, say 60 seconds, before it stops completely. This is also known as deceleration.
- C.** Stops the drive when the current or torque is too high. It also prohibits the operation of the VFD and motor going too fast.
- D.** Allows the operator to select different speeds for the motor – slower or faster.
- E.** This is the device operated by an Variable Frequency Drive (VFD).
- F.** This function allows the operator to go both backward and forward.
- G.** This function continues operating the motor at the same speed, regardless of the load, heavy or light.
- H.** This the the major reason for using VFDs on fans and pumps.



## End of Lesson 1

### Answers

- |      |       |       |
|------|-------|-------|
| 1)D. | 2) G. | 3) A. |
| 4)F. | 5) B. | 6) C. |
| 7)H. | 8) E. |       |

### Objectives

- 1) The student is able to identify 7 basic functions of an Variable Frequency Drive (VFD) and give a brief description of each function.
- 2) The student is able to identify the device operated by an Variable Frequency Drive (VFD).

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If you have any comments or questions, please contact:

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