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| GP 16-07-01 | Motor Application | January 2002 |
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# Motor Application

## GP 16-07-01

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### Scope

[I] This Global Practice (GP) covers application of motors.

[I] An asterisk (\*) indicates that additional information is required. If a job is contracted, this additional information is furnished in the Job Specification.

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## 1. Required References

\* [I] Applicable standards of manufacture and test for motors are given in the Practices listed below. For other conditions of purchase and use, motors shall conform to nationally recognized codes and standards which are approved by the Owner's Engineer and which are acceptable within the country where the motors will be used.

### 1.1. Global Practices–ExxonMobil Engineering Practices

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| <a href="#">GP 16-09-01</a> | Low Voltage AC Motors Up to 200 HP (150 kW)                    |
| <a href="#">GP 16-09-02</a> | AC Motors: Medium Voltage and Low Voltage Over 200 HP (150 kW) |
| <a href="#">GP 16-14-01</a> | Standard LV Variable Frequency Drives                          |
| <a href="#">GP 16-14-02</a> | Engineered Variable Frequency Drive Systems                    |

## 2. Definitions

[I] Acceptable and preferred practices: Where this GP lists more than one type of equipment or method as acceptable or preferred, Contractor shall make the selection based on optimum cost benefits. Optimum cost benefits may be achieved by reducing maintenance and operating expense through initial added investment. Economic basis for calculating optimum cost benefits will be specified in the design documents.

## 3. Selection

1) [S] Table 1 lists the Enclosure Selection Guidelines.

\* [R] Modifications to Table 1 shall be made, with the Owner's Engineer's approval, where special conditions make this necessary. For example:

- a) Filters may be required for drip-proof or weather-protected motors in locations that have large quantities of air borne contaminants, dirt, sand, or other solid particles in the air.
- b) Totally-enclosed fan-cooled or totally-enclosed water-air-cooled motors may be required:
  - i) When filters cannot provide effective separation because of small size and/or quantity of solid particles in the air or
  - ii) In locations having marine exposure to prevent contamination of windings due to high salt content in the air.

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