

DEP SPECIFICATION

GENERAL-PURPOSE FORM-WOUND SQUIRREL CAGE INDUCTION MOTORS – 250 HP THROUGH 3000 HP FOR NORTH AMERICAN APPLICATION (AMENDMENTS/SUPPLEMENTS TO API STD 547)

DEP 33.66.05.37-Gen.

February 2018

ECCN EAR99

DESIGN AND ENGINEERING PRACTICE



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PART I INTRODUCTION

1.1 SCOPE

This DEP specifies requirements and gives recommendations for form-wound squirrel cage induction motors and auxiliary equipment for use in North American applications.

This DEP is based on API STD 547, second edition, May 2017. Part III of this DEP amends, supplements and deletes various clauses of API STD 547. Part III follows the clause numbering of API STD 547 for easy reference.

While this DEP can be used to specify medium voltage motors that are part of an adjustable speed drive (ASD) system, API 541 motors are preferred for medium voltage ASD applications. See DEP 33.66.05.36-Gen.

This is a revision of the DEP of the same number dated February 2017; see (1.5) regarding the changes.

1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

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This DEP is intended for use in facilities related to oil and gas production, gas handling, oil refining, chemical processing, gasification, distribution and supply/marketing. This DEP may also be applied in other similar facilities.

When DEPs are applied, a Management of Change (MOC) process shall be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements could be more stringent than in this DEP, the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regards to the safety, environmental, economic and legal aspects. In all cases, the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this DEP as closely as possible.

1.3 DEFINITIONS

1.3.1 General definitions

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project or operation of a facility. The Principal may undertake all or part of the duties of the Contractor.

In API 547, the term **Purchaser** is used and understood to mean the **Contractor**.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.

In API STD 547, the term **Vendor** is used and understood to mean the **Manufacturer/Supplier**.

The **Principal** is the party that initiates the project and ultimately pays for it. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal.

In API STD 547, the term **Owner** is used and understood to mean the **Principal** in this DEP.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation.

The word **may** indicates a permitted option.

1.3.2 Specific definitions

Term	Definition
Accredited Certification Organization (ACO)	An organization that has been accredited by the Standards Council of Canada, in accordance with specific criteria, procedures and requirements, to operate, on a continuing basis, a certification program for electrical equipment. When a reference is made to a NRTL in this DEP, this also includes the Accredited Certification Organization in Canada.
Contract Documents	Purchase order, specification, attachments, drawings, sketches, reports or any other information provided by the Principal to the Manufacturer/Supplier.

1.3.3 Abbreviations

Term	Definition
ACO	Accredited Certification Organization
ANSI	American National Standards Institute
API	American Petroleum Institute
ASTM	American Society for Testing and Materials
CSA	Canadian Standards Association
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NRTL	Nationally Recognized Testing Laboratory
SAE	Society of Automotive Engineers

1.4 CROSS-REFERENCES

Where cross-references to other parts of this DEP are made, the referenced section or clause number is shown in brackets (). Other documents referenced by this DEP are listed in Part (IV).