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UL 2874

Outline of Investigation for Electric Motors for Use in Class I, Division 1 Hazardous (Classified) Locations - Protection by Flammable Atmosphere Maintained above the UFL

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Summary of Topics

This first issue of the Outline of Investigation for Electric Motors for Use in Class I, Division 1 Hazardous (Classified) Locations - Protection by Flammable Atmosphere Maintained above the UFL, UL 2874, covers the explosion protection of electric motors as permitted by the national Electrical Code, NEC®, Article 501.125 (A)(4) by means of submerging in a liquid that is flammable only when vaporized and mixed with air, or is submerged in a gas or vapor at a pressure greater than atmospheric that is flammable only when mixed with air.

These requirements are for machines that are for use only in industrial establishments with restricted public access, where the conditions of maintenance and supervision ensure that only qualified persons service the installation.

The machine is so arranged as to prevent energizing it until it has been purged with the liquid or gas to exclude air and also arranged to automatically de-energize the equipment when the supply of liquid or gas or vapor fails or the pressure is reduced below atmospheric.

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CONTENTS

INTRODUCTION

1 Scope	4
2 Components	4
3 Units of Measurement	5
4 Undated References	5

CONSTRUCTION

5 General	5
6 Motor Explosion Protection by Purging and Pressurization	6
7 Protection by Immersion	7
8 Controls and Instrumentation	7

TESTING

9 Over Pressure	8
10 Control	8

MARKING AND INSTRUCTIONS

11 General	8
12 Operating Manual	8

BIBLIOGRAPHY