

1. Introduction

1.1 About SME Company

SME group, founded in 1974, is a high technology company, manufacturer of electronic controllers and related products for application in battery powered vehicles, particularly forklift trucks and specialized in the development of AC power controllers.

The group provides intelligent and innovative solutions to satisfy market requirements, achieving worldwide customer satisfaction.

SME group is able to offer a complete motion system for the different industrial lift truck ranges guaranteeing a high and safe performance customized to the client's requirements.

1.2 About this manual

This manual presents important information on configuring traction or pump systems using the AC *SmartMotion AC-L1* as well as details on sizing and selecting system components, options and accessories in an electrically powered vehicle.

This manual also presents an overview of AC induction motor and AC drives technology.

This version replaces all previous existing versions of the manual, if any.

1.3 About warning, caution and information notices

Special attention must be paid to the information presented in Warning, Caution and other kinds of information notices when they appear in this manual.

Failure to follow those recommendations may result in dangerous situations or in damages to the components, for which SME will not respond.



Warnings. A Warning informs the user of a hazard or a potential hazard which could result in serious or fatal injury if the precautions or instructions given in the warning notice are not observed.



Cautions. A caution informs the reader of a hazard or a potential hazard which could result in a serious damage to the appliance.



Information Notices. An information notice contains additional, not essential pieces of information to complete or to clarify the meaning of the paragraph they are placed into.



User Manual Reference. A User Manual Reference informs the user to look up specified user manual for more details.