

AC Drive (ACD)

Description

The ACD motor controller is designed to incorporate the feature and requirements of smaller electric vehicles or specific applications. For example lift trucks, golf cars, steering applications, etc. The ACD is available in 24V/36V and 48V version providing different power outputs and battery voltages.

Features

- The ACD is small, efficient and offers outstanding performance regardless if it is applied for traction, lift or steering applications.
- The drive is designed to meet the demanding environments of electric vehicles.
- A rugged design ensures protection against dust, water and physical damage.
- Integral mounting flanges and the integrated connector ensure simple installation and reliable operation.
- For safe and reliable vehicle operation the ACD communicates via the industry standard CANopen protocol, or directly from analogue/digital inputs.
- Total software configurability eliminates all operator adjustments and assures absolutely reproducible performance of identically configured drives.
- Programmable features are for example hill hold, rollback braking and best performance curve (BPC).
- Several I/O versions are available, accommodating various motor, feedback, and I/O requirements.
- Support for service, diagnostic and down loading of software with Truck Service Tool.

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1P110763 Rev. 7 Ver. 2 Date Release: 2011-maj-27

KOLLMORGEN
Because Motion Matters™

General

Motor type	3-phase induction motor with squirrel cage rotor or PM synchronous motor
No. of quadrants	1, 2, 4 quadrant control.
Communication	CAN
Switching frequency	8, 12, 16 kHz (ratings are valid for 8kHz)
Operating stator current frequency	0-250 Hz
Control mode	Speed or torque control
Connector	AMP SEAL 23-pin
Operating temperature	-40°C to + 55°C (-40°F to +131°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F), ambient humidity of 95%
Protection class	IP65
Applicable Standards	According to EN 1175-1. and UL 583
Power Connection	M6 bolts

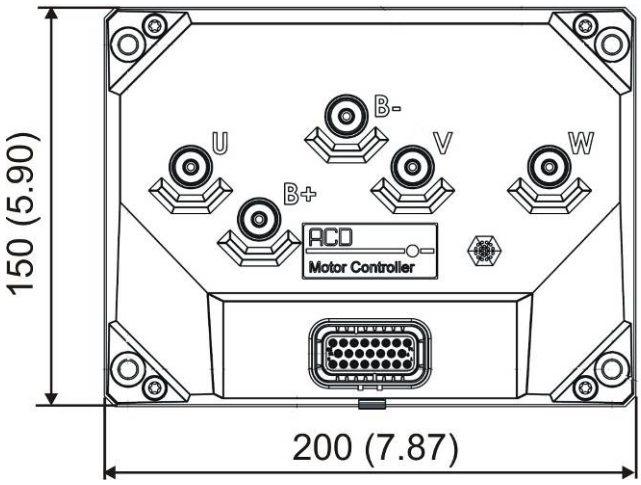
Current and outputs ratings

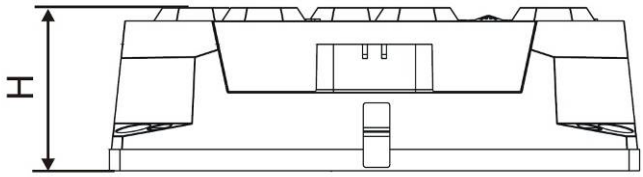
ACD Model*	Nominal DC supply voltage Udc	Driving current (2 min. rating) Arms	Driving current (1 hour rating) Arms	Power output (2 min. rating) kVA	Power output (1 hour rating) kVA
ACD3605-xxx*	24/36	225	100	9.1	4.0
ACD4805-xxx*	48	175	58	9.6	3.2
ACD4802-xxx*	48	70	23	3.9	1.3

Note: For ACD Model name see User's Guide

Dimensions

ACDxx02	Height: 61.3mm	Weight: 1.4Kg
ACDxx05	Height: 65.8mm	Weight: 1.6Kg





mm (inch)