Introduction

The HLEC-AC Series offers multiple models of low-voltage motor controller designed specifically for construction machinery, conforming to EN ISO 13849 PLd. Suitable for various voltage platforms from 24V to 96V and features comprehensive diagnostic and self-protection functions. Utilizing vector control algorithms, it offers fast response. Products are compatible with various motor types, while providing high protection and reliability.

General specifications

Operating temperature		-40~55°C
Storage temperature		-40~85°C
Environmental test	Rapid temperature change	GB/T 2423.22
	Damp heat	GB/T 2423.3
	Neutral salt spray	GB/T 2423.17
Mechanical test	Sinusoidal wave vibration	GB/T 2423.10
	Sine Sweep	GB/T 2423.56
	Mechanical impact	GB/T 2423.5
EMC	Electromagnetic radiation	GB/T 30031
	Electro magnetic interference	GB/T 17799-2
	Electrostatic discharge	GB/T 17626-2
Insulation rating		500V
IP level		IP67

Applications

Boom lift | Forklift

SSL | Compact excavator

Technical specifications

Model	Type	Rated input voltage	Operating voltage	Output current		
					S2-2min	S2-2min (DC)
HLEC-AC1-24-250	Single-motor controller	24	12~35V	130A	250A	-
HLEC-AC1-D-24-200	Dual-motor controller	24	12~35V	80A	200A	-
HLEC-AC1-T-24-200-280	3in1 motor controller	24	12~35V	80A	200A	280A
HLEC-AC1-48-375	Single-motor controller	48	14.4~63V	155A	375A	-
HLEC-AC1-48-450	Single-motor controller	48	14.4~63V	175A	450A	-
HLEC-AC1-48-550	Single-motor controller	48	14.4~63V	225A	550A	-
HLEC-AC1-48-650	Single-motor controller	48	14.4~63V	260A	650A	-
HLEC-AC1-D-48-250	Dual-motor controller	48	14.4~63V	94A	250A	-
HLEC-AC1-T-48-250-250	3in1 motor controller	48	14.4~63V	94A	250A	250A
HLEC-AC1-D-48-375	Dual-motor controller	48	14.4~63V	155A	375A	-
HLEC-AC1-D-48-450	Dual-motor controller	48	14.4~63V	175A	450A	-
HLEC-AC1-80-375	Single-motor controller	80	30~120V	155A	375A	-
HLEC-AC1-80-450	Single-motor controller	80	30~120V	175A	450A	-
HLEC-AC1-80-550	Single-motor controller	80	30~120V	190A	550A	-
HLEC-AC1-D-80-375	Dual-motor controller	80	30~120V	155A	375A	-
HLEC-AC1-D-80-450	Dual-motor controller	80	30~120V	175A	450A	-