



DC-Servo Controller Kern Drive

Type Overview

Typ Type Type	Bestell-Nr. Order no. No. de commande	Nennstrom Rated current Courant nominale	Spitzenstrom Peak current Courant maxi	Supply voltage	
				min.	max.
Drive 60 4/8	400a-210	4 A	8 A	24 VDC	60 VDC
Drive 60 8/16	400a-212	8 A	16 A	24 VDC	60 VDC
Drive 60 14/28	400a-214	14 A	28 A	24 VDC	60 VDC
Drive 140 4/8	400a-216	4 A	8 A	60 VDC	140 VDC
Drive 140 8/16	400a-218	8 A	16 A	60 VDC	140 VDC
Drive 140 14/28	400a-220	14 A	28 A	60 VDC	140 VDC
Drive 200 14/28	400a-222	14 A	28 A	100 VDC	200 VDC

General Description

Kern Drive Servo Controllers are optimal to control Kern DC-servomotors.

The application field of Kern Drive Servo Controllers range from simple speed regulation, with or without speedometer, to torque control to position control with superior SPS- respectively CNC-control.

The output stage is designed for IGPT- respectively POWER-MOSFET-Bridge.

A smooth starting stage is integrated in the Kern Drive Servo Controller.

The Kern Drive Servo Controller is connected via a spring contact strip according to DIN 41612 or via the backplane PCB, described in datasheet on site 3 .

Main Features

- Small frame size (Europcard dimensions) due to SMD-Technology
- Output range up to 8 Nm (Newton Meters)
- Minimal sweep radiation
- Applicable for an operating temperature from 0 to 40 degree Celsius
- Modular assembly system with wide-ranging accessories

Adjustments

VEL - Speed
 BIL - Offset
 KV - Amplification
 DER - Hold-back time
 ACC - Smooth starting stage
 (Acceleration ramp)

The individual components of the Kern Drive Servo Controller are interchangeable.

Protection circuits

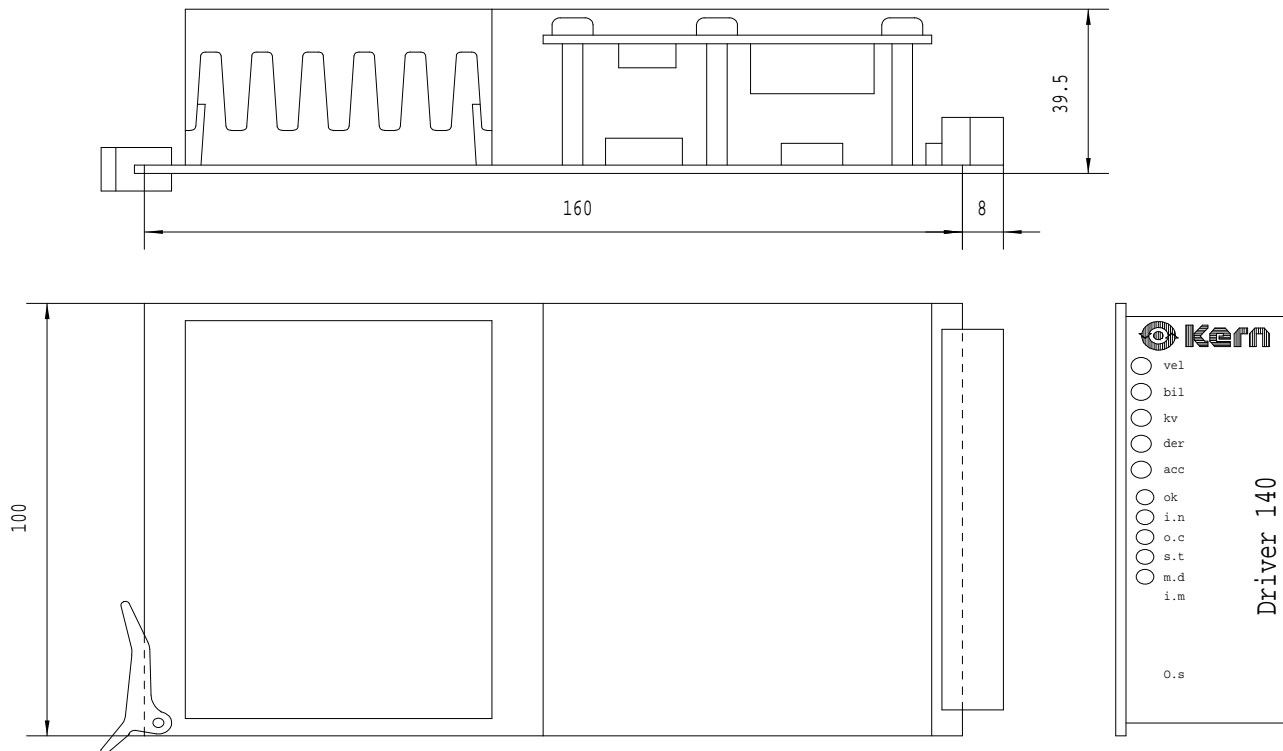
Protection against:

- Motor short circuit
- Over voltage in the interposition circuit
- Motor overload
- Break of the tachogenerator- or encoder connection

Accessories

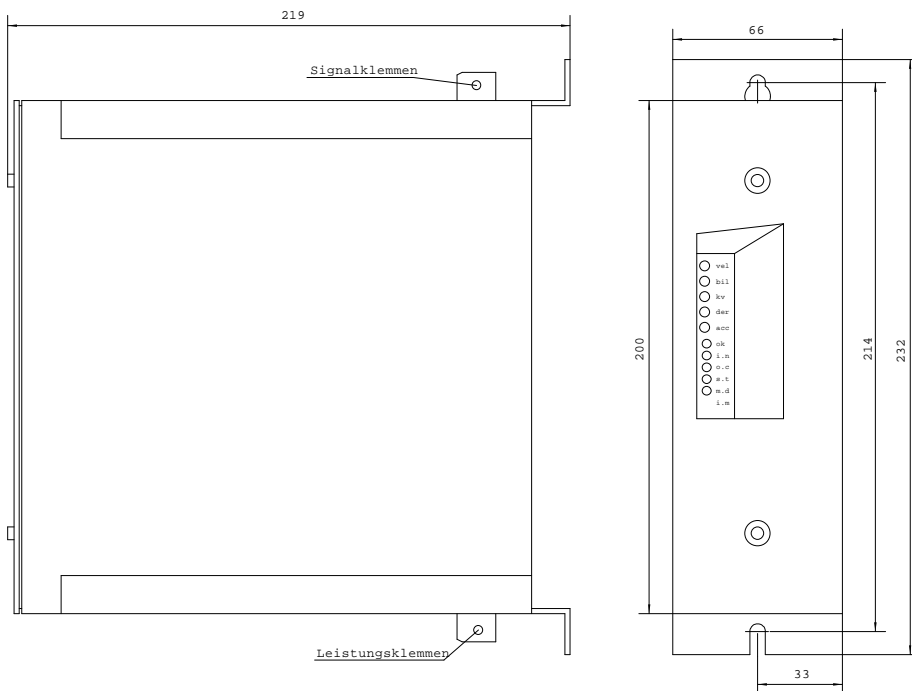
Spring contact strip according to DIN 41612 Art.-No. 069a025
See technical data sheet on site 3 and site 4.

Drawing



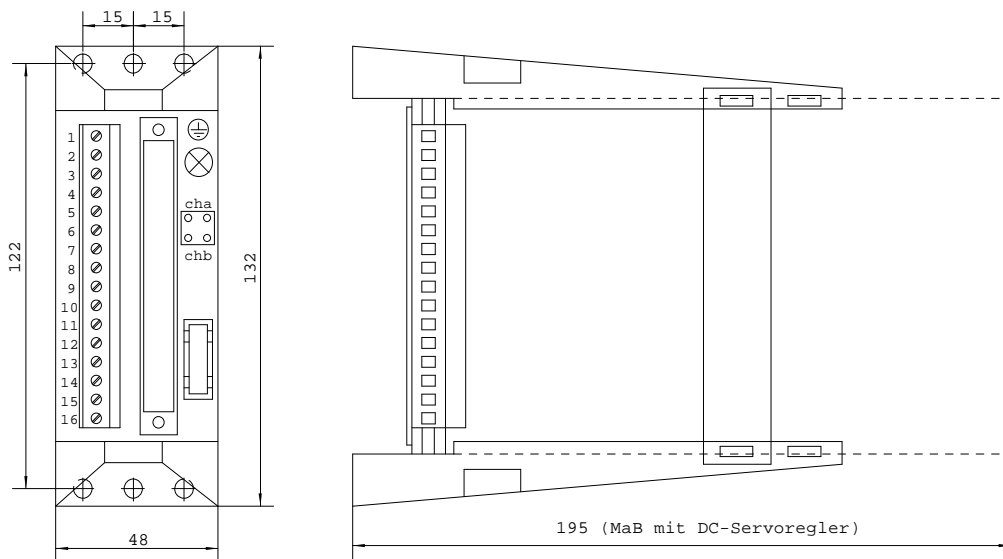
Technical modifications reserved

Body with Commutator



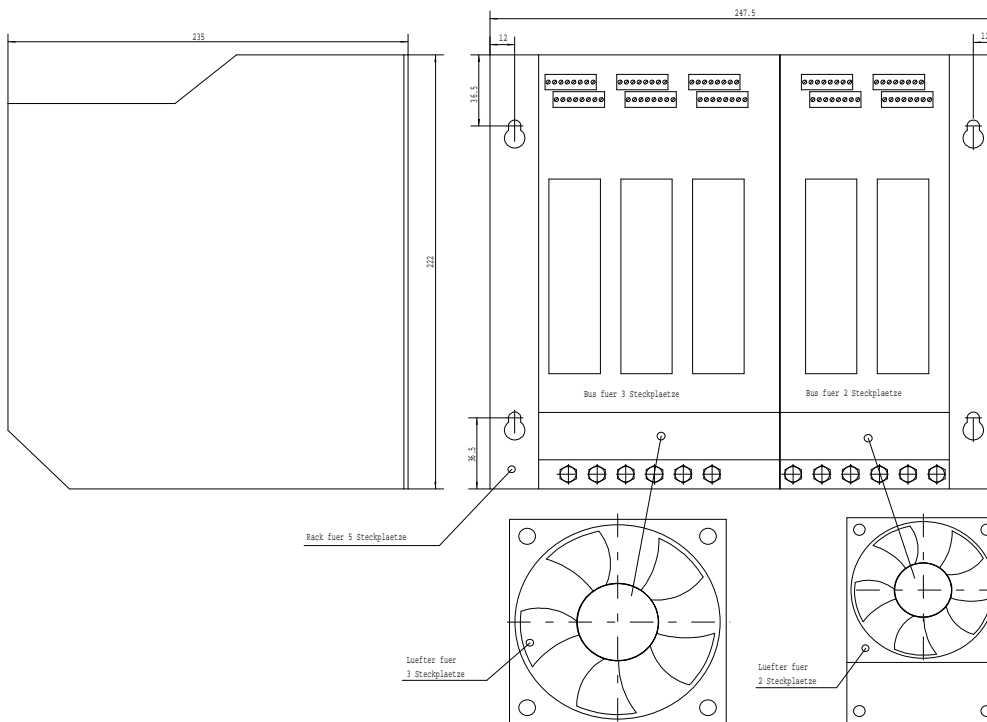
Body Type	Item-No.
MTS 60 for MS 60	400a-250
MTS 140 for MS 140	400a-251
MTS 200 for MS 200	400a-252

Back Wall Sheet Bar with Card



Item-No. for Back Wall Sheet Bar 400a-371

Rack



Technical modifications reserved

Component	Item-No.
Rack 42 TE with 5 slots	400a-270
Bus for 2 slots 3 phases 20A	400a-310
Bus for 3 slots 3 phases 28A	400a-311
Fan for 2 slots 220 VAC	400a-300
Fan for 3 slots 220 VAC	400a-301