

## Technical data

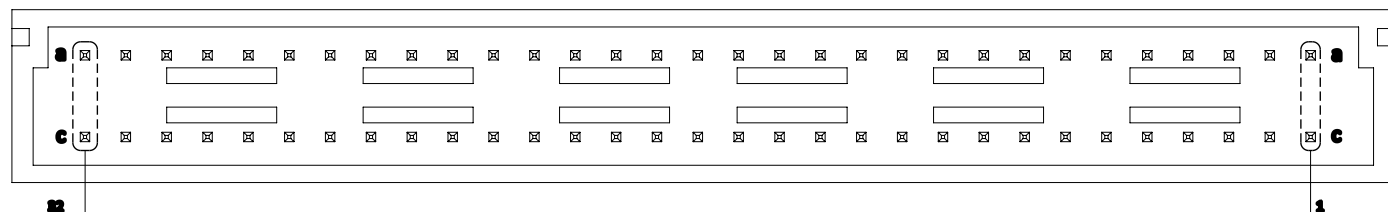
Version		60 4/8	60 8/16	60 14/28	140 4/8	140 8/16	140 14/28	200 14/28
Rated voltage	V DC	24 - 60	24 - 60	24 - 60	60 - 140	60 - 140	60 - 140	100-200
Rated current	A	4	8	14	4	8	14	14
Peak current	A	8	16	28	8	16	28	28
Undervoltage	V DC	20	20	20	40	40	40	58
Overvoltage	V DC	84	84	84	182	182	182	275

### General technical data for all versions

Max. speed	rpm	5000
Minimum tacho voltage	V DC	5
Operating temperature	°C	0 - 40
Max. humidity	%	80
Weight	kg	0.51
Speed setpoint		Differential +/-10 V (input resistance 20 kOhm)
Temperature drift, differential stage		+/-18 µV/°C (max.)
Temperature drift, differential controller		+/-18 µV/°C (max.)
Input/output current request		+/-10 V (input resistance 47 kOhm)
Release signal		+10/30 V (input resistance 10 kOhm)
Motor short-circuit protection		yes
Overvoltage protection for intermediate circuit		yes
Motor overload protection		yes
Protection in case of wire breakage		yes
RoHs / REACH		yes
EMC-tested		no

## Pin assignment without card holder, 32-pin

Manufacturer code: 86094647113755ELF



1a	-	17a	-	1c	Reference potential 0V	17c	(+) Power supply input
2a	-	18a	-	2c	Status - output	18c	-
3a	-	19a	-	3c	Current request	19c	(-) Power supply input
4a	-	20a	-	4c	-10V (max. 5 mA)	20c	(-) Power supply input
5a	-	21a	-	5c	+10V (max. 5 mA)	21c	(-) Power supply input
6a	-	22a	-	6c	(+) Setpoint input	22c	(-) Power supply input
7a	-	23a	-	7c	Release (+10/30 V DC)	23c	-
8a	(-) Setpoint input	24a	-	8c	(+) Tacho input	24c	(+M) Motor connection
9a	-	25a	-	9c	(-) Tacho input	25c	(+M) Motor connection
10a	-	26a	-	10c	-	26c	(+M) Motor connection
11a	Current monitor (+/-8V)	27a	-	11c	-	27c	(+M) Motor connection
12a	CHB encoder input	28a	-	12c	CHA encoder input	28c	-
13a	-	29a	-	13c	-	29c	(-M) Motor connection
14a	-	30a	-	14c	(+) Power supply input	30c	(-M) Motor connection
15a	-	31a	-	15c	(+) Power supply input	31c	(-M) Motor connection
16a	-	32a	-	16c	(+) Power supply input	32c	(-M) Motor connection

## Pin assignment with card holder, 17-pin and 2-pin

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Encoder	
																	1.1	2.1

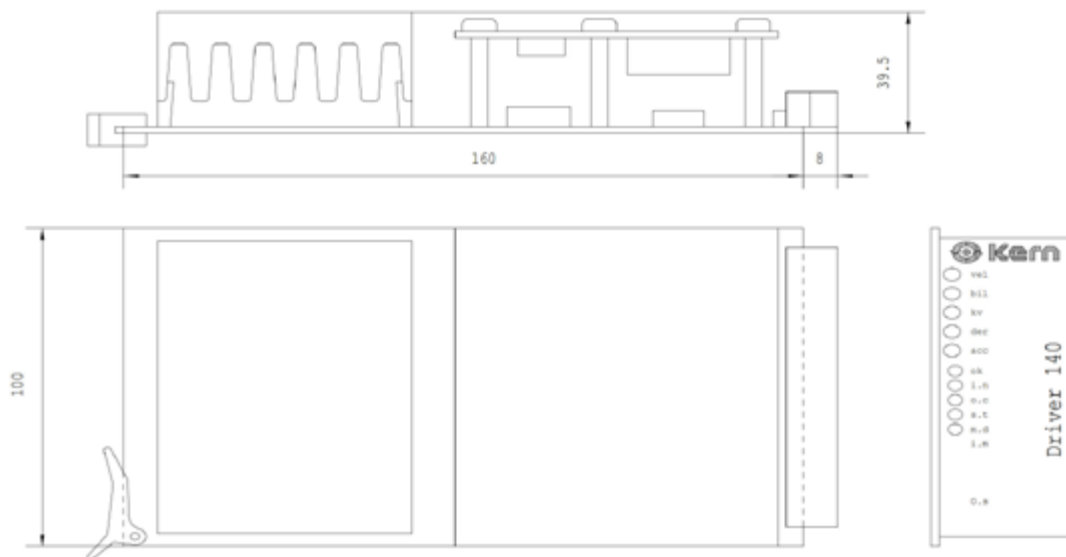
  

0	Current monitor (+/-8V)	5	+10V (max. 5 mA)	9	(+) Tacho input	13	(-) Power supply input
1	Status - output	6	Release (+10/30 V DC)	10	(-) Tacho input	14	(-) Power supply input
2	Current request	7	(+) Setpoint input	11	(+) Power supply input	15	(+M) Motor connection
3	Reference potential 0V	8	(-) Setpoint input	12	(+) Power supply input	16	(-M) Motor connection
4	-10V (max. 5 mA)						

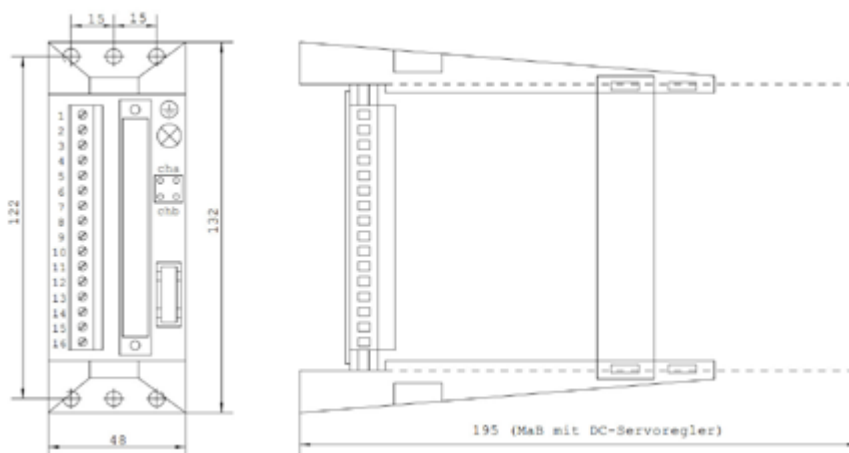
  

1.1	CHA encoder input	1.2	CHB encoder input
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## Controller dimensions (Eurocard format)



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