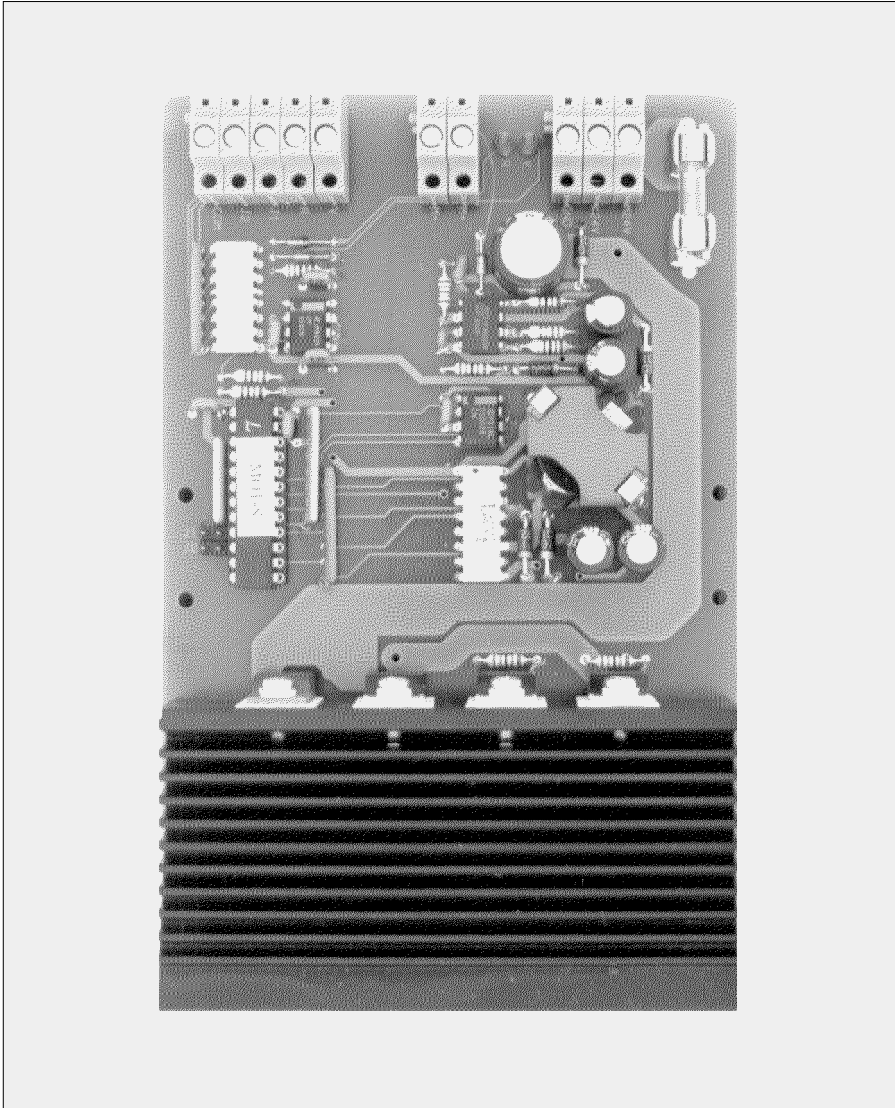


MOTOR-SWITCH

MOT-S

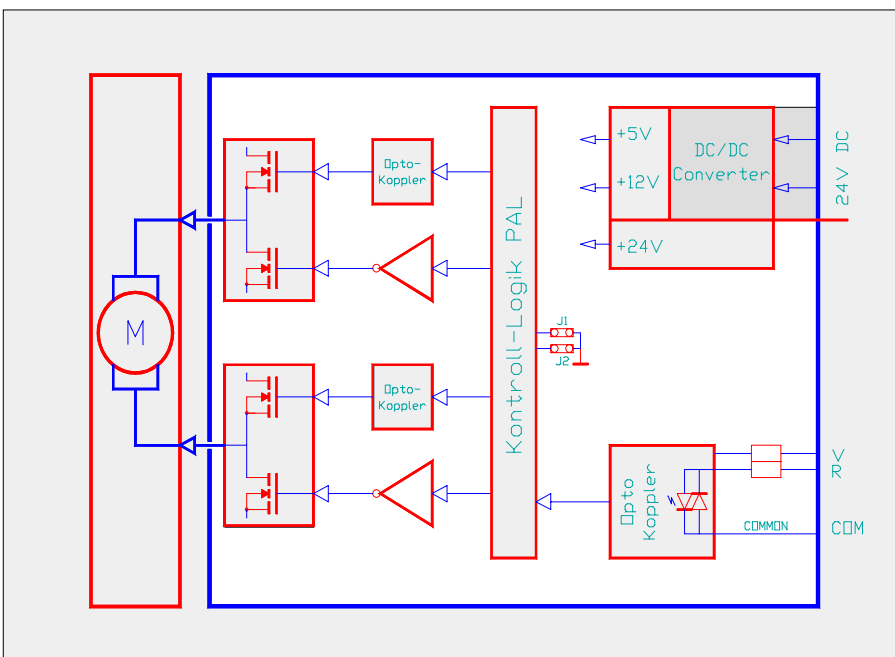


Application

With the MOT-S Card DC-Motors with 24V supply voltage can be operated. The motor can turn forward or backward by driving the signals on terminal 3. The time of changing orientation can be set with two jumpers. Two LEDs show the actual rotation direction of the motor. If neither the forward nor backward driving signals are asserted the motor acts as a break. The driving signals are galvanically separated. The motor supply is protected with a 10A fuse. The motor card is sized for 10A continuous operating. Peak currents of 30A are allowed for short time.

Technical data

- 24V direct current motor
- 10A continuous operating
- forward/backward rotation
- variable changeover time (35,19.5 8,75ms)
- rotation directory showed by LEDs
- galvanically separated
- driving signals: 24V DC



Order-No. 93140b

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 Tüfiwis 26
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 Tel. 01 / 956 20 00
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Mai2002

MOTOR-SWITCH

MOT-S

Terminal 1

1	I	M24V
2	I	K24V
3	I	GND

Terminal 2

4	O	M+
5	O	M-

Terminal 3

6	I	V
7	I	R
8	I	J1
9	I	J2
10	I	COM

Supply

+24V DC, 75mA (without motor)

Stock/operating temperature

-20...+80/0...+60 °C

Wiring

The supply of the card or the motor can be wired to the protected supply clamp K24V (protected with a 10A fuse) or to the unprotected clamp M24V. K24V and M24V are located on terminal 1. V, R, and COM are used to change the rotation direction. V = forward; R=backward. The optocoupler inputs of V and R are bidirectional. That means V, and R can be operated with PNP or NPN outputs (COM=Gnd or COM=+24V).

Changeover time

The changeover time to change the rotation directory can be set to three different times. The times can be set by the two jumpers J1, J2 or by the driving signals J1, J2 at terminal 3.

The following times can be set

J1, J2 not wired, not set	35.00ms
J1 wired, set	19.50ms
J2 wired, set	8.75ms

MOTOR-SWITCH

MOT-S

1	IC1	IP34063N
1	IC2	LM555
1	IC3	GAL 6001-30
1	IC4	DS0026
1	OC1	TLP620-4
1	OC2	TLP521-4 /PC847-4
4	F1-F4	IRF540
5	D1-D5	D RGP10D
2	D6,D7	D 1N4148
1	D8	DBZX85C39
1	C3	C 10nF
6	C4,5,6,11-13	C 100nF
1	C2	C 220pF
1	C1	C 470uF/50V
4	C7-C10	C 100uF/25V
1	R1	R 0.22 Ohm
5	R2,R6-R9	R 4.7 K'Ohm
1	R3	R 68 Ohm
1	R4	R 1.2 K'Ohm
1	R5	R 3.6 K'Ohm
2	R10,R12	R 12 K'Ohm
1	R11	R 2.2 K'Ohm
1	RN1	Rn 5x4.7 K 6P
1	RN2	Rn 4x470 8P
1	RN3	Rn 4x1 K 8P

1	RN4	Rn 4x4.7k 8P
2	L1,L2	TLS124
1	TR1	Trafo Mot-S
2	S1	Sicherungshalter
1		10 A träge
2	J1,J2	Stiftleiste 2R
10	KL1,2,3	Phoenix Klemme KDS 2,5
1		PR138/94/SE/M3 Kühlkörper
1		Gehäuse EXT
1		Print 93140b

