

P	LTR	DESCRIPTION	DATE	DWN	APVD	
	A	ECN-24-273776	TE STANDARD	05JUL2024	NM	RB

TA-Nr.

Technical Data

Application and basic function

Controlled switch-ON/OFF of the on-board power supply in commercial vehicles.
This device integrates the basic of a monostable two coil featuring for a strong pull in and an economical holding. The electronic-unit takes over the relay-control.
The evaluation for current monitoring,
the main-contact-control and other control-functions.

Operational Characteristics

OVERCURRENT THRESHOLD 1.....+350 AMP ± 5%
BLANKING 1 (T1).....10 sec +100 MSEC
OVERCURRENT THRESHOLD 2.....+1500 AMP ± 5%
BLANKING 2 (T2).....APPROX. 150 MSEC

OPERATION TIME
OPERATE OVER SUPPLY VOLTAGE.....MAX. 150 MSEC
OPERATE OVER INIT.....MAX. 100 MSEC

CONTROL INPUT (INIT)
CONTROL SIGNAL.....ACTIVE LOW
CONTROL THRESHOLD.....1 VDC ±0.5 VDC
FUNCTION.....RELAY ON / OFF

ANALOGUE-OUTPUT:
LINEAR VOLTAGE-OUTPUT (0..1-4.9 VDC)
-300A = 0.0 VDC
0A = 2.5 VDC
+300A = 5.0 VDC
TOLERANCE: ±2% ±5A

General Data

Temperature range.....-40°C to +85°C
Storage temperature.....-46°C to +95°C(195°C for 2h)

Interior protection.....IP67(10,2bar-1min)and IP6K9K
.....after IEC529 and DIN 40 050 T9
Terminal protection.....IP00/ IEC529 and DIN 40 050 T9

Vibration.....4 g/50-2000Hz
Shock.....6 g/11msec
after ISO 16750 for road vehicles

Resistance.....against most oils, hydraulic fluids,
fuels, alcohol, fire-extinguishing agents,
battery acid, salt spray, injurious gas,
cleaning agents, humidity, alternating temperature

Mounling position.....optional
Weight.....approx. 890 gr

Electrical Data

Nominal Voltage.....24VDC
Voltage range.....16-32VDC
Spikes.....70VDC FOR 2 MSEC
Min. operational Voltage.....16VDC
Overvoltage.....36VDC bei 40°C/ 1h
Min. Insulation Resistance.....100MOhm
After live or environmental.....50MOhm
Dielectric withstanding voltage.....1050VAC/1min

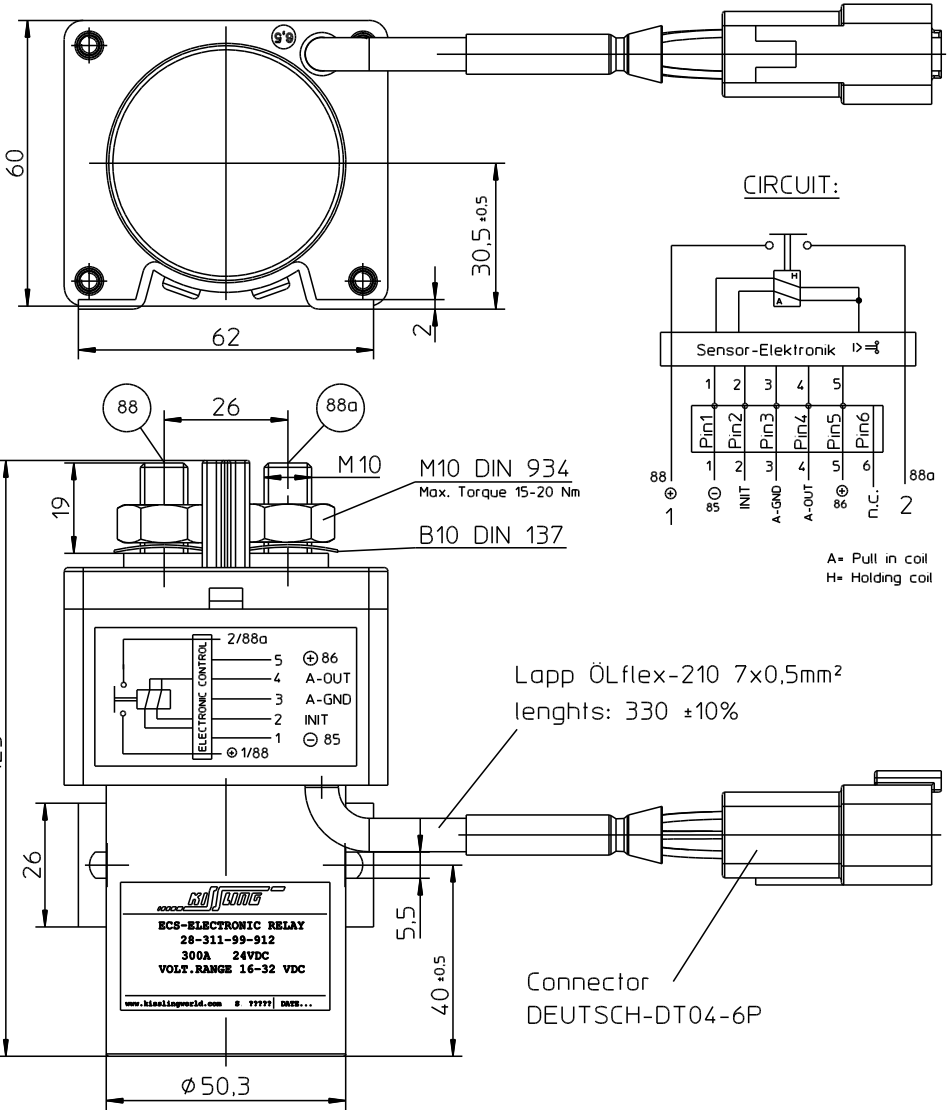
Relay Data

Duty rating.....300A continuous
Overload.....3000A for 1sec, 750A for 20sec

Contact life, 300A resistive load200 000 cycles
Mechanical life.....300 000 cycles

Contact drop (at 300A duty rating).....150mVDC
Contact drop after life test.....175mVDC

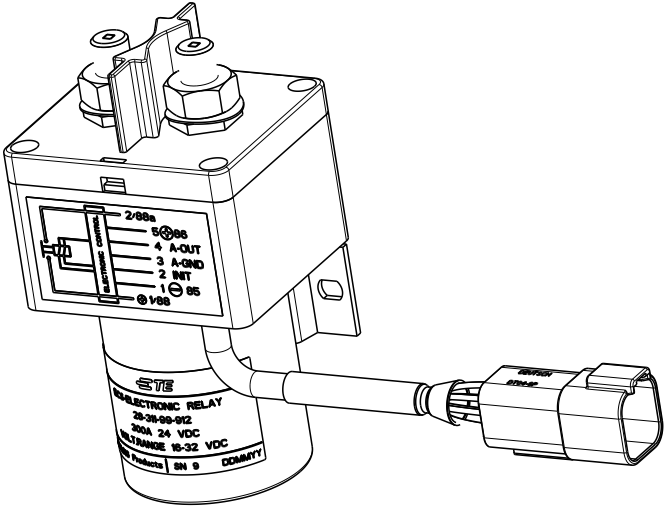
Resistance Pull in coil.....approx 5.2 Ohms ±10%
Pull in current max.....4A for 20 Msec.
Resistance Holding coil.....approx 101 Ohms ±10%
Holding current max.....max. 0.3A



NOTES
Bemerkungen

1 TE-CONNECTIVITY ORDER-NUMBER
TE-Connectivity Bestellnummer

ISO 1:2



3D ISO
M 1:2

ECS-Power Relay 300AMP (24VDC)

Bl. 1 v. 1

Datum	Name	Freimaßtoleranz	Maßstab	Zeichnungsnummer
01.09.2015	Hamar	DIN ISO 2768 cL	1:1	28-311-99-912
22.09.2015	Kaise	Bl. 1 v. 1		Kunden-Znr.:

K1154009	1	A	ECS-POWER RELAY 300AMP (24VDC) ECS-Leistungsrelais 300AMP (24VDC)	1152	1
TE ORDER-NO.	REV.		DESCRIPTION	WEIGHT [g]	ITEM NO.

PARTS LIST

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN E.Hamarat 16JUN2015	TE Connectivity		
DIMENSIONS: mm		CHK E.Hamarat 16JUN2015			
TOLERANCES UNLESS OTHERWISE SPECIFIED: DIN ISO 2768 cL		APVD G.Kaiser 22SEP2015	NAME ECS-POWER RELAY 300AMP (24VDC) ECS-Leistungsrelais 300AMP (24VDC)		
0 PLC ± 1 PLC ± 2 PLC ± 3 PLC ± 4 PLC ± ANGLES ±		PRODUCT SPEC	SIZE A3		
MATERIAL TBD		FINISH	CAGE CODE 00779		
		WEIGHT	DRAWING NO C-28-311-99-912		
		CUSTOMER DRAWING	RESTRICTED TO -		
		SCALE 5:1	SHEET 1 OF 1		
			REV A		