

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	TE STANDARD UPDATED	04 JUL2024	KS	RB
	A1	ECN-25-311103	13MAR2025	RA	SY

NOTE
Bemerkungen:

1 TE-CONNECTIVITY ORDER-NUMBER
TE-Connectivity Bestellnummer

EC No.	Bistable Power Relay 300A 24VDC WITH ENERGY STORAGE	Page 1 of 2

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in accordance with DIN ISO 16016

M4x6 ISO 1207 (2x)
Max. Torque 2-2.2Nm

34
30.5 ± 0.5
2
62

88 A1
A2 85

Mounting dimension
7.4
5.5
50

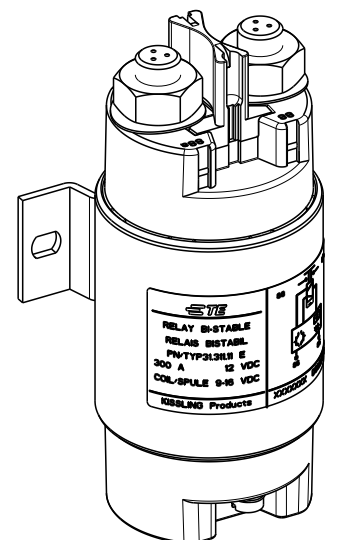
88 26 88a
M10
M10 DIN 934
max. Torque 15-20Nm
B10 DIN 137
Replaceable barrier
29-200-55

15
44 ± 0.5
116.5 ± 1
57 ± 0.5
Ø 50.3
ELECTRONICS UNIT

CIRCUIT:

88 88a
86 85

EC No.	Bistable Power Relay 300A 24VDC	Page 2 of 2
	WITH ENERGY STORAGE	
	TECHNICAL DATA	
	THE BASIC PRINCIPLE OF THIS RELAY IS A PROVED TWO COIL DEVICE WITH A PULL IN AND DROP OUT COIL WITH PERMANENT POWERLESS MAGNETIC HOLDING. AN IMPULSE INTO THE CONTROLLED COIL SWITCHES THE RELAY IN TO THE ON POSITION. THE ELECTRONIC FUNCTION HOLDS THIS POSITION WITHOUT POWER. WHEN THE POWER SUPPLY IS REMOVED,THE ELECTRONIC CAPACITOR STORES ENOUGH ENERGY IN ORDER TO DEACTIVATETHE RELAY. THE RELAY HAS ONLY TWO CONTROL CONNECTIONS WHICH MAKES IT POSSIBLE TO REPLACE A STANDARD MONOSTABLE RELAY WITH A BI-STABLE RELAY GIVING THE ADVANTAGE OF POWERLESS HOLDING.THE ELECTRONIC CAPACITOR IS CHARGED DURING THE SWITCH-ON PROCESS. WHEN THE POWER SUPPLY IS REMOVED, THE CAPACITOR DISCHARGES THE POWER INTO THE DROP OUT COIL AND THEREFORE SWITCHE SOFF THE RELAY. THE CHARACTERISTICS OF A STANDARD BI-STABLE RELAY REQUIRES RE-SUPPLY OF ENERGY TO DROP OUT THE COIL. THE ELECTRONICS ARE SHORT-CIRCUIT PROTECTED WITH COIL CONTROL.ENERGY STORAGE MONITORING. REVERSE POLARITY AND COIL REMOVAL.	
	ENVIRONMENTAL CHARACTERISTICS TEMPERATURE RANGE.....-40°C TO +85°C (-40°F TO +185°F) MAX. ALTITUDE RATING.....50 000 FT SEAL.....IEC 529,2.EDITION 1989-IP67 6 FT/1MIN.) AND IP6K9K SHOCK G-LEVEL.....6G/11 MSEC VIBRATION4G/50-2000 Hz	
	ELECTRICAL CHARACTERISTICS MIN.INSULATION RESISTANCE,INITIAL.....100 MEGOHMS AFTER LIVE OR ENVIRONMENTAL.....50 MEGOHMS DIELECTRIC WITHSTANDING VOLTAGE.....1050 VAC / 1min MAX.CONTACT DROP,INITIAL.....0,15 VDC AFTER LIFE TEST.....0,175 VDC OVERLOAD.....2400 AMP for 1 sec.; 600 AMP for 20 sec. DUTY RATING.....300 AMP CONTINUOUS QUIESCENT CURRENT.....<3mA	
	RATED CONTACT LOAD MOTOR LOAD.....50 000 CYCLES MECHANICAL LIFE.....100 000 CYCLES	
	ELECTRONICS AND OPERATING CHARACTERISTICS VOLTAGE RANGE.....18-32 VDC NOMINAL VOLTAGE.....24 VDC PICK UP VOLTAGE MIN.....18 VDC FULL TEMP. RANGE PICK UP COIL RESISTANCE7,8 Ohm ±20% DROP OUT COIL RESISTANCE8,4 Ohm ±20%	
	CIRCUIT TIME MIN. PICK UP TIME500 MSEC BOUNCE TIMEMAX. 5 MSEC MIN. DROP OUT TIME100 MSEC	
	WEIGHT.....0,61 kg= 1.32 POUND MAX.	
	WIRE SECTION (AT NOMINAL LOAD).....MIN. 95mm² /0.147 sq. in./ AWG 0000	
	SUBJECT TO CHANGE	

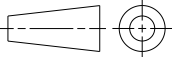


 1	K1144572	A	BISTABLE POWER RELAY 300A 12VDC Bistables Leistungsrelais 300A 12VDC	1
TE ORDER-NO.	REV.	DESCRIPTION		ITEM NO.



TE Connectivity

NAME				BISTABLE POWER RELAY 300A 12VDC			
				Bistables Leistungsrelais 300A 12VDC			
SIZE		CAGE CODE		DRAWING NO		RESTRICTED TO	
A 3		00779		C-31-311-11-E		-	
				SCALE		SHEET	
				5:1		1 OF 1	
						REV A1	

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN E.Hamarat	17OCT2019
DIMENSIONS:		CHK N.Mielke	27NOV2019
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: DIN ISO 2768 cL	APVD G.Kaiser	29NOV2019
	0 PLC ± 1 PLC ± 2 PLC ± 3 PLC ± 4 PLC ± ANGLES ±	PRODUCT SPEC	
MATERIAL	FINISH	APPLICATION SPEC	
		WEIGHT	
		CUSTOMER DRAWING	