# ② E 小A Thermal-Magnetic Circuit Breaker 3500

#### Description

Single pole thermal-magnetic circuit breaker with tease-free, trip-free, snap action mechanism and two button operation (M-type TM CBE to EN 60934). Featuring a flange for panel mounting and optional auxiliary contacts. Approved to CBE standard EN 60934 (IEC 60934).

#### **Typical applications**

Control systems, instrumentation, medical equipment, machine tools, robotics, communications systems.

#### **Ordering information**

Гуре				
3500	standard version			
	Terminal design			
	P10	blad	e terminals 6.3-0.8 (QC .250), tinned	
		Auxi	iliary contacts (optional)	
		Si	auxiliary contacts, silver plated	
			terminals one each N/O and N/C	
			Current ratings	
			0.0516 A	
3500 -	- P10	- Si -	- 10 A ordering example	

The exact part number required can be built up from the table of choices shown above. Ordering references for optional features should be omitted if not required.

#### Please be informed that we have minimum ordering quantities to be observed.

Standard current ratings and typical internal resistance values						
Current rating (A)	Internal resistance (Ω)	Current rating (A)	Internal resistance (Ω)			
0.05	447	3	0.19			
0.1	131	4	0.090			
0.2	40	5	0.061			
0.3	19.3	6	0.041			
0.4	10.4	7	0.034			
0.5	7.1	8	≤ 0.02			
0.6	4.3	10	≤ 0.02			
0.8	2.5	12	≤ 0.02			
1	1.67	14	≤ 0.02			
1.5	0.61	15	≤ 0.02			
2	0.38	16	≤ 0.02			
2.5	0.24					

### **Approvals**

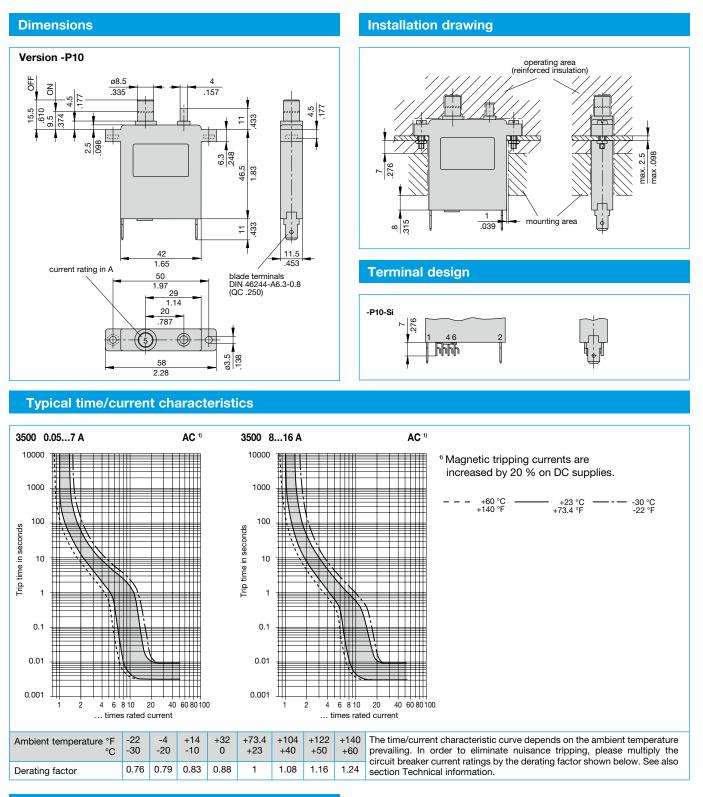
Authority	Standard	Rated voltage	Current ratings
VDE	IEC/EN 60934	AC 240 V DC 65 V	0.0516 A 0.0516 A
UL	UL 1077 C22.2 No 235	AC 250 V DC 80 V	0.0516 A 0.0516 A
CSA	C22.2 No 235	AC 250 V DC 80 V	0.0516 A 0.0516 A



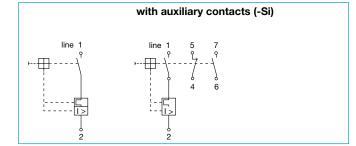
#### **Technical data**

For further details please	-		_		
Voltage rating	AC 240 V, 50/60 Hz; DC 65 V (UL: AC 250 V; DC 80 V)				
Current rating range	0.0516 A				
Auxiliary circuit	1 A, AC 240	1 A, AC 240 V/DC 65 V			
Typical life	5,000 operations at 1 x $I_N$ , inductive 5,000 operations at 2 x $I_N$ , resistive				
Ambient temperature	-30+60 °C (-22+140 °F)				
Insulation co-ordination (IEC 60664 and 60664 A)	rated impuls withstand vo 2.5 kV reinforced in		lution gree perating area		
Dielectric strength (IEC 60664 and 60664A) operating area main/aux. circuit aux. circuit 4-5/6-7	test voltage AC 3,000 V AC 1,500 V AC 840 V				
Insulation resistance	> 100 MΩ (DC 500 V)				
Interrupting capacity I <sub>cn</sub>	0.050.8 A 12 A 2.516 A	self-limiting 200 A 400 A			
Interrupting capacity (UL 1077)	l <sub>N</sub> 0.0516 A 0.0516 A	U <sub>N</sub> AC 250 V DC 80 V	1,000 A 1,000 A		
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 terminal area IP00				
Vibration	5 g (57-500 Hz), ± 0.38 mm (10-57 Hz) to IEC 60068-2-6, test Fc 10 frequency cycles/axis				
Shock	25 g (11 ms) to IEC 60068-2-27, test Ea				
Corrosion	96 hours at 5 % salt mist to IEC 60068-2-11, test Ka				
Humidity	240 hours at 95 % RH to IEC 60068-2-78, test Cab				
Mass	approx. 40 g				

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### Internal connection diagrams



This is a metric design and millimeter dimensions take precedence (mm) inch

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved.Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

www.e-t-a.de

## **Mouser Electronics**

Authorized Distributor

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### **E-T-A Circuit Breakers:**

<u>3500-P10-Si-5A</u> <u>3500-P10-SI-16A</u> <u>3500-P10-SI-15A</u> <u>3500-P10-0.08A</u> <u>3500-P10-020812-15A</u> <u>3500-P10-10A</u> <u>3500-P10-10A</u> <u>3500-P10-15A</u> <u>3500-P10-16A</u> <u>3500-P10-SI-6A</u> <u>3500-P10-Si-0.1A</u> <u>3500-P10-SI-1.5A</u> <u>3500-P10-SI-10A</u> <u>3500-P10-SI-1A</u> <u>3500-P10-SI-3A</u> <u>3500-P10-SI-4A</u> <u>3500-P10-3A</u> <u>3500-P10-4.5A</u> <u>3500-P10-4A</u> <u>3500-P10-5A</u> <u>3500-P10-5A</u> <u>3500-P10-5A</u> <u>3500-P10-2325-10A</u> <u>3500-P10-2325-15A</u> <u>3500-P10-2A</u> <u>3500-P10-35A</u>