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 PRODUCT-DETAILS

# TEF4-OFF

## TEF4-OFF Frontal Electronic Timer




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**General Information**

Extended Product Type	TEF4-OFF
Product ID	1SBN020114R1000
EAN	3471523130654
Catalog Description	TEF4-OFF Frontal Electronic Timer

Long Description	<p>TEF4-OFF is a frontal electronic timer used to realize the timing function and allow a compact solution in the cabinet compared to separate timers. TEF4 electronic timers are front-mounted and locked on AF, AFC contactors or NF, NFC electronic relays. A mechanical indicator allows to show the state of the contactor. TEF4 electronic timers are supplied by a direct plug-in parallel connection to the coil terminals A1 - A2 of the contactor or contactor relay. A varistor is integrated on the timer to offer a built-in protection against surges in the contactor coil. The TEF4 is available for a wide control voltage range 24...240 V AC/DC. TEF4 allow time-delayed functions up to 100 s in 3 distinct time ranges, independently of the control system. The time delay ranges are selected by a switch and the time delay can be adjusted by means of a rotary switch. The timing function of TEF4-OFF is activated by opening the device on which the timer is mounted. The OFF-delay version operates without additional control supply.</p>
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**Ordering**

Minimum Order Quantity	1 piece
Customs Tariff Number	85389091

## Popular Downloads

Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101026M6801
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product Net Width	43 mm
Product Net Depth / Length	67.7 mm
Product Net Height	41.6 mm
Product Net Weight	0.065 kg

## Technical

Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	1
Number of Poles	2P
Standards	IEC/EN 60947-5-1, UL 508, UL 60335-2-40 LZGH2 A2L, CSA C22-2 No. 14-18, CSA C22.2 No. 60335-2-40 LZGH2 A2L
Rated Operational Voltage	Auxiliary Circuit 240 V AC Auxiliary Circuit 24 V DC
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 5 A
Rated Operational Current AC-15 ( $I_{\theta}$ )	(24 / 127 V) 3 A (220 / 240 V) 1.5 A
Rated Operational Current DC-13 ( $I_{\theta}$ )	(24 V) 1 A / 24 W
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	for 0.1 s 8 A for 1 s 8 A
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-5-1 400 V acc. to UL/CSA 300 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	4 kV
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Maximum Mechanical Switching Frequency	1800 cycles per hour
Power Loss	at 3 A per Pole 0.1 W
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Tightening Torque	Auxiliary Circuit 1.2 N·m
Terminal Type	Screw Terminals
Timer Relay Type	OFF-Delay
Suitable For	AF09 AF09Z AF12 AF12Z AF16 AF16Z AF26 AF26Z

AF30  
 AF30Z  
 AF38  
 AF38Z  
 AF40  
 AF52  
 AF65  
 AF80  
 AF96  
 AFC09  
 AFC12  
 AFC16  
 AFC26  
 AFC30  
 AFC38  
 NF22E  
 NF22E  
 NFZ22E  
 NF31E  
 NFZ31E  
 NF40E  
 NFZ40E  
 NFC22E  
 NFC31E  
 NFC40E

Product Name Electronic Timer

### Technical UL/CSA

Tightening Torque Auxiliary Circuit 11 in-lb  
 UL/CSA

### Environmental

Ambient Air Temperature Close to Contactor for Storage -40 ... +80 °C  
Operation -25 ... +70 °C  
 Climatic Withstand Category B according to IEC 60947-1 Annex Q  
 Maximum Operating Altitude Permissible Without Derating 2000 m  
 Resistance to Vibrations 3g Closed Position & 2g Open Position 5 ... 300 Hz

### Material Compliance

Conflict Minerals Reporting Template (CMRT) 9AKK108467A5658  
 REACH Declaration 2CMT2021-006202  
 RoHS Information 2CMT2021-006277  
 RoHS Status Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019  
 SCIP b815070a-c1ae-446c-8830-f5e7343c90e3 China (CN)  
 WEEE B2C / B2B Business To Business  
 WEEE Category 5. Small Equipment (No External Dimension More Than 50 cm)

### Certificates and Declarations

A2L Certificate - UL 9AKK108469A4895  
9AKK108469A4896  
 ABS Certificate ABS\_20-2060694-PDA  
 CB Certificate CB\_CN46281  
 CCC Certificate CCC\_2012010303572179  
 CQC Certificate CQC2012010303572179  
 Declaration of Conformity - CCC 2020980303000172  
 Declaration of Conformity - CE 1SBD250008U1000

Declaration of Conformity - UKCA	1SBD250039U1000
UL Certificate	UL-US-L252354-192-31702102-2 UL-CA-L252354-392-31702102-2
UL Listing Card	UL E252354

## Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	82 mm
Package Level 1 Depth / Length	56 mm
Package Level 1 Height	51 mm
Package Level 1 Gross Weight	0.065 kg
Package Level 1 EAN	3471523130654
Package Level 2 Units	box 80 piece
Package Level 2 Width	254 mm
Package Level 2 Depth / Length	319 mm
Package Level 2 Height	200 mm
Package Level 2 Gross Weight	5.2 kg

## External Classifications and Standards

Object Classification Code	K
ETIM 7	EC002060 - Timer block
ETIM 8	EC002060 - Timer block
ETIM 9	EC002060 - Timer block
eClass	V11.0 : 27371308
UNSPSC	39121523
IDEA Granular Category Code (IGCC)	4746 >> Timer controls
E-Number (Finland)	3706000
E-Number (Sweden)	3210257

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

