

PRODUCT-DETAILS

# TEF4-ON

## TEF4-ON Frontal Electronic Timer



### General Information

Extended Product Type	TEF4-ON
Product ID	1SBN020112R1000
EAN	3471523130630
Catalog Description	TEF4-ON Frontal Electronic Timer

**Long Description**

TEF4-ON 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 contactor 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-ON is activated by closing the device on which the timer is mounted.

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85389091
Product Main Type	Accessories for Block Contactors

## Popular Downloads

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

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>
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour
Mounting Position	Mounting positions 1, 1 +/- 30°, 2, 3, 4, 5
Number of Auxiliary Contacts CO (SPDT)	0
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Poles	2
Power Loss	at 3 A per Pole 0.1 W
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-5-1 400 V acc. to UL/CSA 300 V
Rated Operational Current AC-15 (I <sub>θ</sub> )	(24 / 127 V) 3 A (220 / 240 V) 1.5 A
Rated Operational Current DC-13 (I <sub>θ</sub> )	(24 V) 1 A / 24 W
Rated Operational Voltage	Auxiliary Circuit 240 V AC Auxiliary Circuit 24 V DC
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	for 0.1 s 8 A for 1 s 8 A
Setting Range	0.1 ... 100 second [unit of time]
Standards	IEC/EN 60947-5-1, UL 508, CSA C22-2 No. 14-18
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  
 NFZ22E  
 NF31E  
 NFZ31E  
 NF40E  
 NFZ40E  
 NFC22E  
 NFC31E  
 NFC40E

Terminal Type	Screw Terminals
Tightening Torque	Auxiliary Circuit 1.2 N·m
Timer Relay Type	ON-Delay

## Technical UL/CSA

Pilot Duty UL/CSA	B300 R300
Tightening Torque UL/CSA	Auxiliary Circuit 11 in·lb

## 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
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-5-1, $\Theta = 40$ °C 5 A
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Maximum Operating Altitude Permissible	Without Derating 2000 m
REACH Declaration	2CMT2021-006202
Resistance to Vibrations acc. to IEC 60068-2-6	5 ... 300 Hz 3 g Closed position / 2 g Open position
RoHS Information	2CMT2021-006277

RoHS Status	Following EU Directive 2011/65/EU
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

## Certificates and Declarations

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	3471523130630
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

## Classifications

eClass	V11.0 : 27371308
E-Number (Finland)	3706012
E-Number (Sweden)	3210205
ETIM 6	EC002060 - Timer block
ETIM 7	EC002060 - Timer block
ETIM 8	EC002060 - Timer block
ETIM 9	EC002060 - Timer block
IDEA Granular Category Code (IGCC)	4746 >> Timer controls

Object Classification Code

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UNSPSC

39121523

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## Categories

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

