

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	<p>TEF4 frontal electronic timers are used for realizing timing function and are available in ON-delay and OFF-delay versions.</p> <p>Compact solution in cabinet compared to separate timers</p> <p>TEF4 electronic timers are front-mounted and locked on AF contactors or NF contactor relays.</p> <p>A mechanical indicator allows to show the state of the contactor.</p> <p>Safe and cost-reduced wiring.</p> <p>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.</p> <p>Available for a wide control voltage range 24...240 V AC/DC</p> <p>TEF4-ON or TEF4-OFF 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 is activated by closing or opening the device on which the timer is mounted.</p> <p>The OFF-delay version operates without additional control supply.</p>
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### Ordering

E-Number (Sweden)	3210205
EAN	3471523130630
Minimum Order Quantity	1 piece
Customs Tariff Number	85389091

## Dimensions

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

## Container Information

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

## Environmental

Ambient Air Temperature	Close to Contactor for Storage -40 ... +80 °C Near Contactor for Operation in Free Air -25 ... +70 °C
Maximum Operating Altitude Permissible	2000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 ... 300 Hz 3 g Closed position / 2 g Open position
RoHS Status	Following EU Directive 2011/65/EU

## Technical UL/CSA

Tightening Torque UL/CSA	Auxiliary Circuit 11 IA
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## Additional Information

Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-5-1, q = 40 °C 5 A
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Maximum Electrical Switching Frequency	AC-15 1200 cycles per hour DC-13 900 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour
Medium Description	TEF4-ON Frontal Electronic Timer is used for realizing timing function. TEF4 electronic timers are front-mounted and locked on AF contactors or NF 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.

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
Order Multiple	1 piece
Product Main Type	Accessories for Block Contactors
Product Name	Electronic Timer
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV
Rated Insulation Voltage (U <sub>i</sub> )	acc. to UL/CSA 300 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 400 V
Rated Operational Current AC-15 (I <sub>e</sub> )	(220 / 240 V) 1.5 A (24 / 127 V) 3 A
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 1 A / 24 W
Rated Short-time Withstand Current (I <sub>cw</sub> )	for 0.1 s 8 A for 1 s 8 A
RoHS Date	20171115
Setting Range	0.1 ... 100 second [unit of time]
Suitable For	AF09 AF12 AF16 AF26 AF30 AF38 AF40 AF52 AF65 AF80 AF96 NF
Terminal Type	Screw Terminals
Tightening Torque	Auxiliary Circuit 1.2 N·m
Timer Relay Type	ON-Delay

## Certificates and Declarations (Document Number)

CB Certificate	CB_CN_24746
CCC Certificate	CCC_2012010303572179
Declaration of Conformity - CE	1SBD250008U1000
Environmental Information	1SBD250192E1000
Instructions and Manuals	1SBC101026M6801
RoHS Information	1SBD250008U1000
UL Certificate	UL_20120717_E252354
UL Listing Card	UL_E252354

## Classifications

ETIM 4	EC002498 - Accessories for low-voltage switch technology
ETIM 5	EC002498 - Accessories for low-voltage switch technology
ETIM 6	EC002060 - Timer block

ETIM 7	EC002060 - Timer block
Object Classification Code	K
UNSPSC	39121500
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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## Categories

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

