



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

Popular Downloads

Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101026M6801
Instructions and Manuals (Part 2)	1SAC200017M0002
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, $\theta = 40\text{ }^{\circ}\text{C}$ 5 A
Rated Operational Current AC-15 (I _e)	(24 / 127 V) 3 A (220 / 240 V) 1.5 A
Rated Operational Current DC-13 (I _e)	(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	3600 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 ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²

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	ON-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 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	97073e4f-8bb2-4aee-b212-91f7b6ef7384 China

Simplified SCIP

55fde234-e5fd-4fb4-a21a-ef9638c95391 Portugal
366394a3-e986-4596-b935-68d7ff49e443 Estonia
076cfc3f-e8ea-4d16-99c3-c0bf6638a963 Poland
8bd0fc0b-516c-4dff-a1a0-af5b448d34cc Sweden
d2411e78-8664-4a7e-a6c4-5158470276de Bulgaria
2c8f5a6a-8a54-4194-837e-53c6d56c2970 Germany
537934c6-88db-4ec8-be26-d4c86ca36be2 France
e5bfb542-9cb2-4488-a8ec-aa75db2b0661 Sweden
7091ab00-8071-4b74-9681-3d32837ca129 Germany
85e6523c-2c2c-4ac0-931f-f5a6f1978bf4 France
f19b4a05-ccfa-49c6-b6f6-b7bbd7b6dd38 Spain
0c220aa3-af06-4246-b1d4-1863b7b9f033 Hungary
9f2bdf89-aab8-48c9-8fbe-d94c5803cace Belgium
8bed182e-6f48-4d86-a6ea-d158ca93029b Greece
bcd937f0-2283-4513-9602-5be0f1364a5f Hungary
11ee9f07-cc5a-4aa1-a394-c7bb8dee301f Netherlands
abd3576b-99eb-45d3-aaa5-6f7b6ac7b0cf Poland
f2fc2781-2f32-4e9f-ada8-4c182cc40b46 Czech Republic
e2cedb92-a5b7-40f1-9d04-c02f19a4fc9c Germany
fee9314d-7d8b-469a-8548-da3de3096ec7 Denmark
64b500cc-74fe-4fb2-8028-ce86ce961e87 Germany
bfff5e44-9b71-4899-9f6f-c8ba6fa56bbe Finland
09a118af-4833-4e39-8301-812fa3f87c63 Belgium
3392838b-e9c4-43dd-a82e-def606d4f065 Germany
3c6e0337-d0b1-4527-8f2c-31976f7043c3 Croatia
ecbf7f21-941e-4685-bdac-60e57647f8e7 Norway
cf60ec30-c7df-4476-ac99-0d88d1f7222 Poland

WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

2L 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	3471523130630
Package Level 2 Units	box 80 piece
Package Level 2 Width	254 mm
Package Level 2 Depth /	319 mm

Length	
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)	3706012	
E-Number (Sweden)	3210205	

Categories

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

