

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 frontal electronic timers are used for realizing timing function and are available in ON-delay and OFF-delay versions.

Compact solution in cabinet compared to separate timers

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.

Safe and cost-reduced wiring.

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.

Available for a wide control voltage range 24...240 V AC/DC

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. The OFF-delay version operates without additional control supply.

Ordering

Minimum Order Quantity	1 piece
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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	Flexible with Ferrule 1/2x 0.5 ... 2.5 mm ²
Auxiliary Circuit	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
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
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U _{imp})	4 kV
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 400 V acc. to UL/CSA 300 V
Rated Operational Current AC-15 (I _θ)	(24 / 127 V) 3 A (220 / 240 V) 1.5 A
Rated Operational Current DC-13 (I _θ)	(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 _{cw})	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 N°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
Conventional Free-air Thermal Current (I_{th})	acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 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
Resistance to Vibrations acc. to IEC 60068-2-6	5 ... 300 Hz 3 g Closed position / 2 g Open position
RoHS Information	2CMT2021-006277
WEEE B2C / B2B	Business To Business

Certificates and Declarations (Document Number)

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
Environmental Information	1SBD250192E1000
Instructions and Manuals	1SBC101026M6801
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
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	K
UNSPSC	39121523

Categories

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