

## PRODUCT-DETAILS

A30-30-10 220-230V 50Hz / 230-240V 60Hz

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Contactor

"No longer for sale" replaced by



### General Information

Extended Product Type	A30-30-10 220-230V 50Hz / 230-240V 60Hz
Product ID	1SBL281001R8010
EAN	3471522071804
Catalog Description	A30-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
Long Description	<p>A30 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The A... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, 1 built-in auxiliary contact, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.</p>

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SBL271001R8000

### Popular Downloads

Data Sheet, Technical	1SBC100122C0202_Ch02
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## Information

## Instructions and Manuals

FPTC407722P0001

## Dimensions

Product Net Width	54 mm
Product Net Depth / Length	108.3 mm
Product Net Height	90 mm
Product Net Weight	0.71 kg

## Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	0
Standards	Devices complying with international standards IEC 947-1 / 947-4-1, and European standards EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to IEC 947-1, EN 60 947-1 and amendment 2 to IEC 947-4-1
Rated Operational Voltage	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40^\circ\text{C}$ 65 A acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 40 °C 55 A (690 V) 55 °C 55 A (690 V) 70 °C 39 A
Rated Operational Current AC-3 ( $I_e$ )	(415 V) 55 °C 32 A (440 V) 55 °C 32 A (500 V) 55 °C 28 A (690 V) 55 °C 21 A (380 / 400 V) 55 °C 32 A (220 / 230 / 240 V) 55 °C 33
Rated Operational Power AC-3 ( $P_e$ )	(415 V) 15 kW (440 V) 18.5 kW (500 V) 18.5 kW (690 V) 18.5 kW (380 / 400 V) 15 kW (220 / 230 / 240 V) 9 kW
Rated Operational Power AC-6b ( $P_e$ )	(230 / 240 V) 40 °C, 50 / 60 Hz 13 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 13 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 11 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 22 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 18.5 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 22 kvar (440 V) 40 °C, 50 / 60 Hz 24 kvar (440 V) 55 °C, 50 / 60 Hz 24 kvar (440 V) 70 °C, 50 / 60 Hz 20.5 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 28 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 28 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 23 kvar (690 V) 40 °C, 50 / 60 Hz 38 kvar (690 V) 55 °C, 50 / 60 Hz 38 kvar (690 V) 70 °C, 50 / 60 Hz 32 kvar
Rated Breaking Capacity AC-3	8 x $I_e$ AC-3
Rated Making Capacity	10 x $I_e$ AC-3

## AC-3

Rated Operational Current AC-15 ( $I_{\theta}$ )	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A
Short-Circuit Protective Devices	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 63 A
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 65 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 820 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 340 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-2 / AC-4) 300 cycles per hour (AC-3) 1200 cycles per hour
Rated Operational Current DC-13 ( $I_{\theta}$ )	(24 V) 6 / 144 A (48 V) 2.8 / 134 A (72 V) 2 / 144 W (125 V) 1.1 / 138 W (250 V) 0.55 / 138 W
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-4-1 1000 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	8 kV
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
Coil Consumption	Average Holding Value 50 / 60 Hz 12 V·A Average Pull-in Value 50 Hz 125 V·A Average Pull-in Value 60 Hz 120 V·A
Operate Time	Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NO Contact Closing 8 ... 21 ms
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
Connecting Capacity Main Circuit	Flexible with Cable End 2.5 ... 10 mm² Rigid Cable 2.5 ... 16 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 ... 2.5 mm² Rigid Cable 1 ... 4 mm²
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
Connecting Terminals (delivered in open position) Main Poles	M 5 (+,-) pozidriv 2 screw with 2x (5.6x6.5 mm) connector
Terminal Type	Screw Terminals

## Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 50 A
Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 10 hp (220 ... 240 V AC) Three Phase 10 hp (440 ... 480 V AC) Three Phase 25 hp (550 ... 600 V AC) Three Phase 30 hp

## Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 55 °C Close to Contactor without Thermal O/L Relay (Uc) -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C
Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: A 20 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g

## Material Compliance

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

BV Certificate	BV_2634H07559E0
CB Certificate	CB_FR_602227A
CCC Certificate	CCC_2013010304615752 CCC_2004010309133982
CQC Certificate	CQC2013010304615752 CQC2004010309133982
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001609 2020980304001227
Declaration of Conformity - CE	1SBD250801U1000
Declaration of Conformity - UKCA	1SBD250818U1000
DNV Certificate	DNV-GL_TAE00000TX
DNV GL Certificate	DNV-GL_TAE00000TX
EAC Certificate	EAC_RU C-FR ME77 B03599
LOVAG Certificate	LOVAG_FR97008
LR Certificate	LRS_9830011E4
RINA Certificate	RINA_ELE172319XG001
RMRS Certificate	RMRS_0507015250
UL Certificate	UL_071301E39231

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	101 mm
Package Level 1 Depth / Length	115 mm

Package Level 1 Height	61 mm
Package Level 1 Gross Weight	0.71 kg
Package Level 1 EAN	3471522071804
Package Level 2 Units	box 63 piece
Package Level 2 Width	300 mm
Package Level 2 Depth / Length	245 mm
Package Level 2 Height	308 mm
Package Level 2 Gross Weight	44.73 kg
Package Level 3 Units	576 piece

Classifications

Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4756 >> Capacitor magnet contactor
E-Number (Finland)	3709220

Categories

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

