

PRODUCT-DETAILS

# A50-30-00 24V 50Hz / 24V 60Hz

## A50-30-00 24V 50Hz / 24V 60Hz Contactor



### General Information

Extended Product Type	A50-30-00 24V 50Hz / 24V 60Hz
Product ID	1SBL351001R8100
EAN	3471522081810
Catalog Description	A50-30-00 24V 50Hz / 24V 60Hz Contactor

#### Long Description

A50 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC / 1000 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, 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.

### 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
UNSPSC	39121529

### Container Information

Package Level 1 Units	1 piece
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Package Level 1 Width	140 mm
Package Level 1 Depth / Length	146 mm
Package Level 1 Height	96 mm
Package Level 1 Gross Weight	1.16 kg
Package Level 1 EAN	3471522081810
Package Level 2 Units	box 20 piece
Package Level 2 Width	503 mm
Package Level 2 Depth / Length	153 mm
Package Level 2 Height	307 mm
Package Level 2 Gross Weight	23.2 kg
Package Level 3 Units	160 piece

### Certificates and Declarations (Document Number)

BV Certificate	BV_2634H07559E0
CB Certificate	CB_CN45324
CCC Certificate	CCC_2018010304129267 CCC_2008010309289461
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CE	1SBD250801U1000
DNV Certificate	DNV-GL_TAE00000TX
DNV GL Certificate	DNV-GL_TAE00000TX
EAC Certificate	EAC_RU C-FR ME77 B01010
Environmental Information	1SBD250008E1003
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407700P0003
LR Certificate	LRS_9830011E4
RINA Certificate	RINA_ELE128713XG001
RMRS Certificate	RMRS_0507015250
RoHS Information	1SBD250801U1000
UL Certificate	UL_20120830-E312527-10-1
UL Listing Card	UL_E312527

### Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +55 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C Close to Contactor without Thermal O/L Relay (Uc) -40 ... +70 °C
Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 20 K40 Shock Direction: B2 15 K40 Shock Direction: C1 20 K40 Shock Direction: C2 20 K40 Closed, Shock Direction: B1 10 K40 Open, Shock Direction: B1 5 K40
RoHS Status	Following EU Directive 2011/65/EU

### Technical

Number of Main

3

Contacts NO	
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	
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	Main Circuit 1000 V
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40$ °C 100 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 40 °C 100 A (690 V) 55 °C 85 A (690 V) 70 °C 70 A
Rated Operational Current AC-3 ( $I_e$ )	(1000 V) 55 °C 23 A (220 / 230 / 240 V) 55 °C 53 A (380 / 400 V) 55 °C 50 A (415 V) 55 °C 50 A (440 V) 55 °C 45 A (500 V) 55 °C 45 A (690 V) 55 °C 35 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 15 KWT (380 / 400 V) 22 KWT (415 V) 25 KWT (440 V) 25 KWT (500 V) 30 KWT (690 V) 30 KWT
Rated Operational Power AC-6b ( $P_e$ )	(230 / 240 V) 40 °C, 50 / 60 Hz 22 KVR (230 / 240 V) 55 °C, 50 / 60 Hz 22 KVR (230 / 240 V) 70 °C, 50 / 60 Hz 20 KVR (400 / 415 V) 40 °C, 50 / 60 Hz 38 KVR (400 / 415 V) 70 °C, 50 / 60 Hz 34 KVR (400 / 415 V) 55 °C, 50 / 60 Hz 38 KVR (440 V) 40 °C, 50 / 60 Hz 42 KVR (440 V) 55 °C, 50 / 60 Hz 42 KVR (440 V) 70 °C, 50 / 60 Hz 37 KVR (500 / 550 V), 40 °C, 50 / 60 Hz 48 KVR (500 / 550 V) 55 °C, 50 / 60 Hz 48 KVR (500 / 550 V) 70 °C, 50 / 60 Hz 42 KVR (690 V) 40 °C, 50 / 60 Hz 65 KVR (690 V) 55 °C, 50 / 60 Hz 65 KVR (690 V) 70 °C, 50 / 60 Hz 58.5 KVR
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x $I_e$ AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x $I_e$ AC-3
Short-Circuit Protective Devices	gG Type Fuses 100 A
Maximum Breaking Capacity	$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 1300 A $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 630 A
Maximum Electrical Switching Frequency	AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 600 cycles per hour
Rated Insulation Voltage ( $U_i$ )	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	8 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 24 V 60 Hz 24 V
Coil Consumption	Average Holding Value 50 / 60 Hz 18 5.5 V·A

	Average Pull-in Value 50 Hz 190 V·A Average Pull-in Value 60 Hz 180 V·A
Operate Time	Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NO Contact Closing 8 ... 27 ms
Connecting Capacity Main Circuit	Flexible with Cable End 6 ... 16 m <sup>2</sup> Rigid Cable 6 ... 25 m <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup> Rigid Cable 1 ... 4 m <sup>2</sup>
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Connecting Terminals (delivered in open position) Main Poles	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
Terminal Type	Screw Terminals

## Dimensions

Product Net Width	70 mm
Product Net Depth / Length	108 mm
Product Net Height	110 mm
Product Net Weight	1.16 kg

## Popular Downloads

Data Sheet, Technical Information	1SBC100122C0202_Ch02
Instructions and Manuals	FPTC407700P0003

## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Categories

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

