

PRODUCT-DETAILS

# A40-30-32 24V 50Hz / 24V 60Hz

## A40-30-32 24V 50Hz / 24V 60Hz Contactor



### General Information

Extended Product Type	A40-30-32 24V 50Hz / 24V 60Hz
Product ID	1SBL321001R8132
EAN	3471522078810
Catalog Description	A40-30-32 24V 50Hz / 24V 60Hz Contactor

Long Description	<p>A40 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 2-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 1st stack with 3 main poles and 1 built-in auxiliary contact, 2nd stack with 4 built-in auxiliary contacts, side-mounted add-on auxiliary contact blocks (The built-in auxiliary contact elements are mechanically linked) - 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)	1SBL291001R8100

### Popular Downloads

Data Sheet, Technical Information	1SBC100122C0202_Ch02
Instructions and	FPTC407722P0001

## Manuals

**Dimensions**

Product Net Width	54 mm
Product Net Depth / Length	141 mm
Product Net Height	90 mm
Product Net Weight	0.77 kg

**Technical**

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	3
Number of Auxiliary Contacts NC	2
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 690 V
Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 65 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 40 °C 60 (690 V) 55 °C 60 (690 V) 70 °C 42
Rated Operational Current AC-3 ( $I_e$ )	(415 V) 55 °C 37 A (440 V) 55 °C 37 A (500 V) 55 °C 33 A (690 V) 55 °C 25 A (380 / 400 V) 55 °C 37 A (220 / 230 / 240 V) 55 °C 40
Rated Operational Power AC-3 ( $P_e$ )	(415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
Rated Operational Power AC-6b ( $P_e$ )	(230 / 240 V) 40 °C, 50 / 60 Hz 15 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 15 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 12 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 26 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 20 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 26 kvar (440 V) 40 °C, 50 / 60 Hz 29 kvar (440 V) 55 °C, 50 / 60 Hz 29 kvar (440 V) 70 °C, 50 / 60 Hz 22 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 35 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 35 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 25 kvar (690 V) 40 °C, 50 / 60 Hz 46 kvar (690 V) 55 °C, 50 / 60 Hz 46 kvar (690 V) 70 °C, 50 / 60 Hz 34.5 kvar
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
Rated Operational	(500 V) 2 A

Current AC-15 ( $I_e$ )	(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
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 ( $I_e$ )	(24 V) 6 / 144 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A (125 V) 0.55 / 69 A (250 V) 0.3 / 75 A
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 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 24 V 60 Hz 24 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 NC Contact Closing 7 ... 14 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NC Contact Opening 6 ... 18 ms Between Coil Energization and NO Contact Closing 8 ... 21 ms
Connecting Capacity Main Circuit	Flexible with Cable End 2.5 ... 10 mm <sup>2</sup> Rigid Cable 2.5 ... 16 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup> Rigid Cable 1 ... 4 mm <sup>2</sup>
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) 60 A
---------------------------	-----------------

## 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 ( $U_c$ ) -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
RoHS Status	Following EU Directive 2011/65/EU

## Certificates and Declarations (Document Number)

BV Certificate	BV_2634H07559E0
CB Certificate	CB_FR_602227A
CCC Certificate	CCC_2013010304615752
CQC Certificate	CQC2013010304615752 CQC2004010309133982
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001609 2020980304001227
Declaration of Conformity - CE	1SBD250801U1000
DNV Certificate	DNV-GL_TAE00000TX
DNV GL Certificate	DNV-GL_TAE00000TX
EAC Certificate	EAC_RU C-FR ME77 B03599
Environmental Information	1SBD250006E1002
Instructions and Manuals	FPTC407722P0001
LR Certificate	LRS_9830011E4
RINA Certificate	RINA_ELE172319XG001
RMRS Certificate	RMRS_0507015250
RoHS Information	1SBD250801U1000
UL Certificate	UL_071301E39231

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	100 mm
Package Level 1 Depth / Length	149 mm
Package Level 1 Height	61 mm
Package Level 1 Gross Weight	0.77 kg
Package Level 1 EAN	3471522078810
Package Level 2 Units	box 20 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	15.4 kg
Package Level 3 Units	240 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
eClass	V11.0 : 27371003
UNSPSC	39121529

---

## Categories

---

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

