

# A40-30-10 400-415V 50Hz / 415-440V 60Hz



A40-30-10 400-415V 50Hz / 415-440V 60Hz Contactor

## General Information

Extended Product Type	A40-30-10 400-415V 50Hz / 415-440V 60Hz
Product ID	1SBL321001R8610
EAN	3471522076861
Catalog Description	A40-30-10 400-415V 50Hz / 415-440V 60Hz Contactor
Long Description	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 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.

## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Popular Downloads

Data Sheet, Technical Information	1SBC100122C0202_Ch02
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	Main Circuit 690 V

Rated Frequency (f)	Supply Circuit 50 Hz Supply Circuit 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ }^{\circ}\text{C}$ 65 A acc. to IEC 60947-5-1, $q = 40\text{ }^{\circ}\text{C}$ 16 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) $40\text{ }^{\circ}\text{C}$ 60 A (690 V) $55\text{ }^{\circ}\text{C}$ 60 A (690 V) $70\text{ }^{\circ}\text{C}$ 42 A
Rated Operational Current AC-3 ( $I_e$ )	(220 / 230 / 240 V) $55\text{ }^{\circ}\text{C}$ 40 A (380 / 400 V) $55\text{ }^{\circ}\text{C}$ 37 A (415 V) $55\text{ }^{\circ}\text{C}$ 37 A (440 V) $55\text{ }^{\circ}\text{C}$ 37 A (500 V) $55\text{ }^{\circ}\text{C}$ 33 A (690 V) $55\text{ }^{\circ}\text{C}$ 25 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 11 kW (380 / 400 V) 18.5 kW (415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW
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 Current AC-15 ( $I_e$ )	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 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 ( $I_e$ )	(125 V) 1.1 / 138 A (24 V) 6 / 144 A (250 V) 0.55 / 138 A (48 V) 2.8 / 134 A (72 V) 2 / 144 A
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 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 400 ... 415 V 60 Hz 415 ... 440 V
Coil Consumption	Average Holding Value 50 / 60 Hz 12 V·A Average Holding Value 50 / 60 Hz 3 W Average Pull-in Value 50 Hz 125 V·A Average Pull-in Value 60 Hz 120 V·A
Operate Time	Between Coil Energization and NO Contact Closing 8 ... 21 ms Between Coil De-energization and NO Contact Opening 4 ... 11 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 Coil 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

## Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C 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 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 g Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Certificates and Declarations (Document Number)

BV Certificate	BV_2634H07559D0
CB Certificate	CB_FR_602227A
CCC Certificate	CCC_2013010304615752 CCC_2004010309133982
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	1SBD250006E1002
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407722P0001
LOVAG Certificate	LOVAG_FR97009
LR Certificate	LRS_9830011E4
RINA Certificate	RINA_ELE128713XG001
RMRS Certificate	RMRS_0507015250
RoHS Information	1SBD350054R1000
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	3471522076861
Package Level 2 Units	24 piece
Package Level 2 Gross Weight	17.04 kg
Package Level 3 Units	576 piece

## Classifications

Object Classification Code	Q
E-nummer	3227787

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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

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## Categories

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

