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 PRODUCT-DETAILS

# A45-40-00 230-240V 50Hz / 240-260V 60Hz

## A45-40-00 230-240V 50Hz / 240-260V 60Hz

### Contactors




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**General Information**

Extended Product Type	A45-40-00 230-240V 50Hz / 240-260V 60Hz
Product ID	1SBL331201R8800
EAN	3471522079886
Catalog Description	A45-40-00 230-240V 50Hz / 240-260V 60Hz Contactor
Long Description	A45 4-pole contactors are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces...) and generally for controlling power circuits up to 690 V AC and 440 V DC. The contactors can also be used for many other applications such lighting... The A... series 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 4 N.O. 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.

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**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

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**Container Information**

Package Level 1 Units	1 piece
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Package Level 1 Width	142 mm
Package Level 1 Depth / Length	190 mm
Package Level 1 Height	136 mm
Package Level 1 Gross Weight	1.39 kg
Package Level 1 EAN	3471522079886
Package Level 2 Units	box 8 piece
Package Level 2 Gross Weight	11.12 kg

### Certificates and Declarations (Document Number)

BV Certificate	BV_2634H07559E0
CB Certificate	CB_CN45324
CCC Certificate	CCC_2018010304129267
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CE	1SBD250802U1000
EAC Certificate	EAC_RU C-FR ME77 B01010
Environmental Information	1SBD250007E1003
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407701P0003
LR Certificate	LRS_9830011E4
RoHS Information	1SBD250802U1000
UL Certificate	UL_20120830-E312527-10-1
UL Listing Card	UL_E312527

### Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air (Uc) -40 ... +70 °C Near Contactor for Operation in Free Air (0.85 ... 1.1 Uc) -40 ... +55 °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 Contacts NO	4
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
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	Main Circuit 1000 V

## Voltage

Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 100 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) $40^\circ\text{C}$ 70 A (690 V) $55^\circ\text{C}$ 60 A (690 V) $70^\circ\text{C}$ 50 A
Rated Operational Current AC-3 ( $I_e$ )	(220 / 230 / 240 V) $55^\circ\text{C}$ 40 A (380 / 400 V) $55^\circ\text{C}$ 37 A (415 V) $55^\circ\text{C}$ 37 A (440 V) $55^\circ\text{C}$ 37 A (500 V) $55^\circ\text{C}$ 33 A (690 V) $55^\circ\text{C}$ 25 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 15 kW (380 / 400 V) 22 kW (415 V) 25 kW (440 V) 25 kW (500 V) 30 kW (690 V) 30 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
Short-Circuit Protective Devices	gG Type Fuses 80 A
Maximum Breaking Capacity	$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 900 A $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 490 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
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 230 ... 240 V 60 Hz 240 ... 260 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 18 5.5 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 18 5.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A 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 mm <sup>2</sup> Rigid Cable 6 ... 25 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 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
Terminal Type	Screw Terminals

## Dimensions

Product Net Width	92 mm
Product Net Depth / Length	119.5 mm
Product Net Height	110 mm

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Product Net Weight	1.39 kg
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## Popular Downloads

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Data Sheet, Technical Information	1SBC100122C0202_Ch02
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Instructions and Manuals	FPTC407701P0003
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## Ordering

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Minimum Order Quantity	1 piece
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Customs Tariff Number	85364900
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## Categories

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





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