

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



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

## General Information

<b>Extended Product Type:</b>	A30-30-10 220-230V 50Hz / 230-240V 60Hz
<b>Product ID:</b>	1SBL281001R8010
<b>EAN:</b>	3471522071804
<b>Catalog Description:</b>	A30-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
<b>Long Description:</b>	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.

## Additional Information

<b>ABB Industrial IT Suite:</b>	Control IT
<b>Ambient Air Temperature:</b>	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 U <sub>c</sub> ) -40 ... +55 °C Close to Contactor without Thermal O/L Relay (U <sub>c</sub> ) -40 ... +70 °C
<b>BV Certificate:</b>	BV_2634H07559D0
<b>Block Contactor Type:</b>	3-Pole Contactor
<b>CB Certificate:</b>	CB_FR_602227A
<b>CCC Certificate:</b>	CCC_2013010304615752 CCC_2004010309133982
<b>CSA Certificate:</b>	CSA_1033838_LR056745
<b>Climatic Withstand:</b>	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
<b>Coil Consumption:</b>	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
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55$ °C) °C
<b>Coil Voltage Code:</b>	80
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup> Rigid Cable 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity Main Circuit:</b>	Flexible with Cable End 2.5 ... 10 mm <sup>2</sup> Rigid Cable 2.5 ... 16 mm <sup>2</sup>
<b>Connecting terminals (delivered in open position) Built-in auxiliary terminals:</b>	M 3.5 (+,-) pozidriv 2 screws with cable clamp
<b>Connecting terminals (delivered in open position) Coils terminals:</b>	M 3.5 (+,-) pozidriv 2 screws with cable clamp
<b>Connecting terminals (delivered in open position) Main poles:</b>	M 5 (+,-) pozidriv 2 screw with 2x (5.6x6.5 mm) connector
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 65 A acc. to IEC 60947-5-1, q = 40 °C 16 A
<b>Country of Origin:</b>	Bulgaria (BG)
<b>Customs Tariff Number:</b>	85364900
<b>Data Sheet, Technical Information:</b>	1SBC100122C0202_Ch02
<b>Declaration of Conformity - CE:</b>	1SBD250801U1000
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
<b>Dropout Voltage in % of U<sub>c</sub>:</b>	Approximate 10 ... 65 %

Control Voltage in V AC:	Approximate 40 ... 60 V
E-number:	3227764
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471522071804
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
Environmental Information:	1SBD250005E1002
GOST Certificate:	GOST_POCCFRME77B07175
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	FPTC407722P0001
Invoice Description:	A30-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
LOVAG Certificate:	LOVAG_FR97008
LR Certificate:	LRS_9830011E4
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 820 A cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 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
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Mechanical Durability:	10 million
Minimum Order Quantity:	1 piece
Minimum Switching Capacity:	17 / 5 volt per milliamp
Mounted Auxiliary Contacts 1st Stack:	1 NO, 0 NC
Mounted Auxiliary Contacts 2nd Stack:	0 NO, 0 NC
Mounting Position:	Position 1 to 5 -Ambient temperature =<55°C and control voltage 0.85 - 1.1 U <sub>c</sub> , Ambient temperature 55 - 70°C and control voltage equal to U <sub>c</sub> , Position 6 - Ambient temperature =<55°C and control voltage 0.95 - 1.1 U <sub>c</sub> , Ambient temperature >55°C unauthorised
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Object Classification Code:	Q
Operate Time:	Between Coil Energization and NO Contact Closing 8 ... 21 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms
Order Multiple:	1 piece
Package Level 1 EAN:	3471522071804
Package Level 1 Gross Weight:	0.71 kg
Package Level 1 Height:	61 mm
Package Level 1 Length:	115 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	101 mm
Package Level 2 Units:	63 piece
Package Level 3 Units:	576 piece
Power Loss:	at Rated Operating Conditions per Pole 2.5 W at Rated Operating Conditions per Pole 0.9 W at Rated Operating Conditions per Pole 0.1 W
Product Main Type:	A30

<b>Product Name:</b>	Block Contactor
<b>Product Net Depth:</b>	108.3 mm
<b>Product Net Height:</b>	90 mm
<b>Product Net Weight:</b>	0.710 kg
<b>Product Net Width:</b>	54 mm
<b>RINA Certificate:</b>	RINA_ELE128713XG001
<b>RMRS Certificate:</b>	RMRS_0507015250
<b>Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:</b>	8 x I <sub>e</sub> AC-3
<b>Rated Breaking Capacity acc. to IEC 60947-5-1:</b>	10 x I <sub>e</sub> AC-15
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
<b>Rated Frequency (f):</b>	Supply Circuit 50 Hz Supply Circuit 60 Hz
<b>Rated Frequency Limits:</b>	25 ... 400 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	8 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
<b>Rated Making Capacity AC-3 acc. to IEC 60947-4-1:</b>	10 x I <sub>e</sub> AC-3
<b>Rated Making Capacity acc. to IEC 60947-5-1:</b>	10 x I <sub>e</sub> AC-15
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(690 V) 40 °C 55 A (690 V) 55 °C 55 A (690 V) 70 °C 39 A
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(220 / 230 / 240 V) 55 °C 33 A (380 / 400 V) 55 °C 32 A (415 V) 55 °C 32 A (440 V) 55 °C 32 A (500 V) 55 °C 28 A (690 V) 55 °C 21 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(220 / 230 / 240 V) 9 kW (380 / 400 V) 15 kW (415 V) 15 kW (440 V) 18.5 kW (500 V) 18.5 kW (690 V) 18.5 kW
<b>Rated Operational Power AC-6b (P<sub>e</sub>):</b>	(690 V) 70 °C, 50 / 60 Hz 32 kvar (690 V) 55 °C, 50 / 60 Hz 38 kvar (690 V) 40 °C, 50 / 60 Hz 38 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 23 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 28 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 28 kvar (440 V) 70 °C, 50 / 60 Hz 20.5 kvar (440 V) 55 °C, 50 / 60 Hz 24 kvar (440 V) 40 °C, 50 / 60 Hz 24 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 18.5 kvar

(400 / 415 V) 55 °C, 50 / 60 Hz 22 kvar  
(400 / 415 V) 40 °C, 50 / 60 Hz 22 kvar  
(230 / 240 V) 70 °C, 50 / 60 Hz 11 kvar  
(230 / 240 V) 55 °C, 50 / 60 Hz 13 kvar  
(230 / 240 V) 40 °C, 50 / 60 Hz 13 kvar

<b>Rated Operational Voltage:</b>	Main Circuit 690 V
<b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	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
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	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
<b>RoHS Date:</b>	20060502
<b>RoHS Information:</b>	1SBD350054R1000
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment
<b>Selling Unit of Measure:</b>	piece
<b>Short Description:</b>	A30-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
<b>Short-Circuit Protective Devices:</b>	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 63 A
<b>Standards:</b>	Devices complying with international standards IEC 947-1 / 947-4-1, and European standard s EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to I EC 947-1; EN 60 947-1 and amendment 2 to IEC 947-4-1
<b>Terminal Type:</b>	Screw Terminals
<b>UL Certificate:</b>	UL_071301E39231
<b>UNSPSC:</b>	39121529
<b>DNV GL Certificate:</b>	DNV-GL_TAE00000TX

