

ASL12-30-10S-86



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

General Information

Extended Product Type:	ASL12-30-10S-86
Product ID:	1SBL113004R8610
EAN:	3471523060067
Catalog Description:	ASL12-30-10S-86 110VDC Contactor
Long Description:	ASL12 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. The ASL...S contactors are the spring terminal version of the ASL... range. The ASL... 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-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N. C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected - Accessories: a wide range of accessories is available. ASL... contactors are fitted with low consumption DC coils and are suitable for a direct control by PLC outputs.

Ordering

Minimum Order Quantity:	40 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC100173C0201
Instructions and Manuals:	1SBC101020M9701

Dimensions

Product Net Width:	45 mm
Product Net Depth:	72.5 mm
Product Net Height:	68 mm
Product Net Weight:	0.280 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:	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14
Rated Operational Voltage:	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f):	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C } 22\text{ A}$ acc. to IEC 60947-5-1, $q = 40\text{ °C } 10\text{ A}$
Rated Operational Current AC-1 (I_e):	(690 V) $40\text{ °C } 22\text{ A}$ (690 V) $60\text{ °C } 17\text{ A}$ (690 V) $70\text{ °C } 14\text{ A}$
Rated Operational Current AC-3 (I_e):	(220 / 230 / 240 V) $60\text{ °C } 12\text{ A}$ (380 / 400 V) $60\text{ °C } 12\text{ A}$ (415 V) $60\text{ °C } 12\text{ A}$ (440 V) $60\text{ °C } 11\text{ A}$ (500 V) $60\text{ °C } 11\text{ A}$ (690 V) $60\text{ °C } 7\text{ A}$
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 3 kW (400 V) 5.5 kW (415 V) 5.5 kW (440 V) 5.5 kW (500 V) 5.5 kW (690 V) 5.5 kW
Rated Operational Current AC-15 (I_e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 124 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 22 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 75 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity:	$\cos\phi=0.45$ ($\cos\phi=0.35$ for $I_e > 100\text{ A}$) at 440 V 155 A $\cos\phi=0.45$ ($\cos\phi=0.35$ for $I_e > 100\text{ A}$) at 690 V 90 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-15 1200 cycles per hour AC-2 / AC-4 300 cycles per hour AC-3 1200 cycles per hour DC-13 900 cycles per hour

Rated Operational Current DC-13 (I_e):	(110 V) 0.55 A / 60 A (125 V) 0.55 A / 69 A (220 V) 0.27 A / 60 A (24 V) 6 A / 144 A (250 V) 0.27 A / 68 A (48 V) 2.8 A / 134 A (72 V) 1 A / 72 A
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U_{imp}):	6 kV
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Rated Control Circuit Voltage (U_c):	DC Operation 110 V
Operate Time:	Between Coil De-energization and NC Contact Closing 15 ... 20 ms Between Coil De-energization and NO Contact Opening 13 ... 17 ms Between Coil Energization and NC Contact Opening 31 ... 53 ms Between Coil Energization and NO Contact Closing 36 ... 59 ms
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ²
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ²
Wire Stripping Length:	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm
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
Terminal Type:	Spring Terminals

Environmental

Ambient Air Temperature:	Close to Contactor for Storage -60 ... +80 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 °C Close to Contactor without Thermal O/L Relay -40 ... +70 °C
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible:	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6:	5 ... 300 Hz 3 g Closed position / 2 g Open position

**Resistance to Shock acc. to IEC
60068-2-27:**

Closed, Shock Direction: B1 10 g
Closed, Shock Direction: C1 20 g
Closed, Shock Direction: C2 20 g
Open, Shock Direction: B1 5 g
Open, Shock Direction: C1 9 g
Open, Shock Direction: C2 14 g
Shock Direction: A 20 g
Shock Direction: B2 15 g

Technical UL/CSA

General Use Rating UL/CSA:

(600 V AC) 12 A

Horsepower Rating UL/CSA:

(120 V AC) Single Phase 1/2 Hp
(240 V AC) Single Phase 1.5 Hp
(200 ... 208 V AC) Three Phase 2 Hp
(220 ... 240 V AC) Three Phase 3 Hp
(440 ... 480 V AC) Three Phase 7.5 Hp
(550 ... 600 V AC) Three Phase 10 Hp

Certificates and Declarations (Document Number)

CB Certificate:

CB_CN13475-M1

CCC Certificate:

CCC_2007010309251577

Declaration of Conformity - CE:

1SBD250014U1000

Environmental Information:

1SBD250157E1000

GOST Certificate:

GOST_POCCCNME77B07822.pdf

Instructions and Manuals:

1SBC101020M9701

RoHS Information:

1SBD251006E1001

UL Certificate:

UL_20120917-E312527-1-1

UL Listing Card:

UL_E312527

Container Information

Package Level 1 Units:

1 piece

Package Level 1 Width:

78 mm

Package Level 1 Length:

80 mm

Package Level 1 Height:

48 mm

Package Level 1 Gross Weight:

0.28 kg

Package Level 1 EAN:

3471523060067

Package Level 2 Units:

40 piece

Package Level 2 Width:

250 mm

Package Level 2 Length:

195 mm

Package Level 2 Height:

315 mm

Package Level 2 Gross Weight:

12.500 kg

Package Level 3 Units:

960 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
UNSPSC:	39121529

