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General Information

AF12-30-01-41 **Extended Product Type:** 1SBL157001R4101 Product ID: EAN: 3471523110403

Catalog Description: AF12-30-01-41 24-60V50/60HZ Contactor

Long Description: AF12 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. They

> are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. AF... contactors include an electronic coil interface accepting a wide control voltage Uc min. ... Uc max. Only four coils cover control voltages between 24...500 V 50/60 Hz. AF contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF contactors have built-in surge protection and do not require additional surge suppressors. The AF... 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 (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: AC operated -

Accessories: a wide range of accessories is available.

Categories

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

Ordering

EAN: 3471523110403 Minimum Order Quantity: 1 piece **Customs Tariff Number:** 85369085

Dimensions

Product Net Width: 45 mm 77 mm **Product Net Depth: Product Net Height:** 86 mm **Product Net Weight:** 0.270 kg

Container Information

Package Level 1 Units: 1 piece Package Level 1 Width: 87 mm Package Level 1 Length: 79 mm Package Level 1 Height: 47 mm Package Level 1 Gross Weight: 0.27 kg 3471523110403 Package Level 1 EAN: Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 2 Length: 300 mm Package Level 2 Height: 315 mm Package Level 3 Units: 1229 piece

Technical

Number of Main Contacts NO: 3 **Number of Main Contacts NC:** 0 **Number of Auxiliary Contacts NO:** 0 **Number of Auxiliary Contacts NC:**

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

Auxiliary Circuit 50 / 60 Hz Rated Frequency (f):

Main Circuit 50 / 60 Hz Conventional Free-air Thermal acc. to IEC 60947-4-1. Open Contactors q = 40 °C 35 A

acc. to IEC 60947-5-1, q = 40 °C 16 A Current (Ith):

Rated Operational Current AC-1 (Ie): (690 V) 40 °C 28 A (690 V) 60 °C 28 A (690 V) 70 °C 24 A

Rated Operational Current AC-3 (I_e): (220 / 230 / 240 V) 60 °C 12 A

(380 / 400 V) 60 °C 12 A (415 V) 60 °C 12 A (440 V) 60 °C 12 A (500 V) 60 °C 12.5 A

(690 V) 60 °C 9 A Rated Operational Power AC-3 (P_e): (220 / 230 / 240 V) 3 kW (380 / 400 V) 5.5 kW (415 V) 5.5 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW **Rated Operational Current AC-15** (220 / 240 V) 4 A (24 / 127 V) 6 A (l_e): (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A Rated Short-time Withstand Current at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A (I_{cw}): at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 0.1 s 140 A for 1 s 100 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A **Maximum Breaking Capacity:** cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 A **Maximum Electrical Switching** AC-1 600 cycles per hour AC-15 1200 cycles per hour Frequency: 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** (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (l_e): (220 V) 0.27 A / 60 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (48 V) 2.8 A / 134 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W (72 V) 1 A / 72 W Rated Insulation Voltage (Ui): acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V Rated Impulse Withstand Voltage 6 kV (U_{imp}): **Maximum Mechanical Switching** 3600 cycles per hour Frequency: Rated Control Circuit Voltage (U_c): 50 Hz 24 ... 60 V 60 Hz 24 ... 60 V Between Coil De-energization and NC Contact Closing 13...98 ms **Operate Time:** Between Coil De-energization and NO Contact Opening 11...95 ms Between Coil Energization and NC Contact Opening 38...90 ms Between Coil Energization and NO Contact Closing 40...95 ms **Connecting Capacity-Main Circuit:** Flexible with Insulated Ferrule 1x 0.75...4 mm² Flexible with Insulated Ferrule 2x 0.75...2.5 mm² Flexible with Ferrule 1/2x 0.75...6 mm² Rigid 1/2x 1...6 mm² **Connecting Capacity-Auxiliary** Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Circuit: Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm² Rigid 1/2x 1...2.5 mm² Connecting Capacity-Control Circuit: Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 1x 0.75...2.5 mm² Flexible with Insulated Ferrule 2x 0.75...1.5 mm² Rigid 1/2x 1...2.5 mm² Wire Stripping Length: Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 Degree of Protection: 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:** Screw 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 **Maximum Operating Altitude** 3000 m

Permissible:

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

Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 q

Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g

Resistance to Vibrations acc. to IEC $\,$ 5...300 Hz 4 g closed position / 2 g open position 60068-2-6:

RoHS Status: Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1

Technical UL/CSA

General Use Rating UL/CSA:	(600 V AC) 28 A
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 1 Hp (240 V AC) Single Phase 2 Hp (200 208 V AC) Three Phase 3 Hp (220 240 V AC) Three Phase 3 Hp (440 480 V AC) Three Phase 7-1/2 Hp (550 600 V AC) Three Phase 10 Hp
Tightening Torque UL/CSA:	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb Main Circuit 13 in·lb

Certificates and Declarations (Document Number)

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ABS Certificate:	ABS_15-GE1349500-PDA_90682247
CB Certificate:	CB_SE_70855M1
cUL Certificate:	UL_20091124-E312527-7-1
Declaration of Conformity - CE:	1SBD250164C3000
DNV Certificate:	DNV-GL_E13871
EAC Certificate:	EAC_RU C-FR ME77 B01010
GL Certificate:	DNV-GL_E13871
GOST Certificate:	GOST_POCCFR.ME77.B07175.pdf
LR Certificate:	LRS_1300087E1
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251013E1000

Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529







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Product	Code	Reference	Product link
AF12-30-01-41 24-60V50/60HZ Contactor	1SBL157001R4101	AF12-30-01-41	Buy on EAN