

PRODUCT-DETAILS

# AX18-30-01-86

## AX18-30-01-86 400-415V50Hz/415V-440V60Hz

### Contactors



#### General Information

Extended Product Type	AX18-30-01-86
Product ID	1SBL921074R8601
EAN	3471522396860
Catalog Description	AX18-30-01-86 400-415V50Hz/415V-440V60Hz Contactor
Long Description	AX09...AX25 contactors are mainly used for controlling 3-phase motors and power circuits up to 690 V AC. These contactors are of the block type design with: – 3 main poles and 1 built-in auxiliary contact – control circuit: AC operated – add-on auxiliary contact blocks for front or side mounting and a wide range of accessories.

#### Classifications

Object Classification Code	Q
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
UNSPSC	39121529

#### Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	48 mm
Package Level 1 Depth /	78 mm

Length

Package Level 1 Height	79 mm
Package Level 1 Gross Weight	0.34 kg
Package Level 1 EAN	3471522396860
Package Level 2 Units	30 piece
Package Level 2 Width	240 mm
Package Level 2 Depth / Length	295 mm
Package Level 2 Height	145 mm
Package Level 2 Gross Weight	10.2 kg

Certificates and Declarations (Document Number)

CB Certificate	9AKK107492A7072
CCC Certificate	9AKK107492A7089
CCS Certificate	9AKK107492A7096
Declaration of Conformity - CE	1SBD250011U1000
Instructions and Manuals	9AKK107492A7057
RoHS Information	1SBD251301E1000

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 30 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 1 Hp (240 V AC) Single Phase 3 Hp (200 ... 208 V AC) Three Phase 5 Hp (220 ... 240 V AC) Three Phase 5 Hp (440 ... 480 V AC) Three Phase 10 Hp (550 ... 600 V AC) Three Phase 15 Hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 9 in-lb

Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C Close to Contactor without Thermal O/L Relay -40 ... +70 °C Near Contactor for Operation in Free Air -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
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical

Number of Main Contacts NO	3
Number of Main Contacts	0

NC

Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	1
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 $q = 40\text{ °C}$ 28 A acc. to IEC 60947-5-1, $q = 40\text{ °C}$ 16 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) $40\text{ °C}$ 27 A (690 V) $70\text{ °C}$ 20 A (220 / 240 V) $55\text{ °C}$ 25 A
Rated Operational Current AC-3 ( $I_e$ )	(220 / 230 / 240 V) $55\text{ °C}$ 18 A (380 / 400 V) $55\text{ °C}$ 18 A (415 V) $55\text{ °C}$ 18 A (440 V) $55\text{ °C}$ 12 A (500 V) $55\text{ °C}$ 12 A (690 V) $55\text{ °C}$ 9 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 4 kW (380 / 400 V) 7.5 kW (415 V) 9 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW
Rated Operational Current AC-15 ( $I_e$ )	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 2 A (500 V) 2 A (690 V) 2 A (380 / 440 V) 3 A
Rated Short-time Withstand Current ( $I_{cw}$ )	at $40\text{ °C}$ Ambient Temp, in Free Air, from a Cold State 10 s 145 A at $40\text{ °C}$ Ambient Temp, in Free Air, from a Cold State 15 min 28 A at $40\text{ °C}$ Ambient Temp, in Free Air, from a Cold State 1 min 60 A at $40\text{ °C}$ Ambient Temp, in Free Air, from a Cold State 1 s 300 A at $40\text{ °C}$ Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	$\cos\phi=0.45$ ( $\cos\phi=0.35$ for $I_e > 100\text{ A}$ ) at 440 V 250 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-3 1200 cycles per hour DC-13 900 cycles per hour
Rated Operational Current DC-13 ( $I_e$ )	(110 V) 1.1 A / 121 W (220 V) 0.55 A / 121 W (400 V) 2.8 A / 134 W (500 V) 2 A / 144 W (125 V) 1.1 A / 138 W (24 V) 6 A / 144 W (250 V) 0.55 A / 138 W
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-4-1 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 ( $U_c$ )	50 Hz 400 ... 415 V 60 Hz 415 ... 440 V
Operate Time	Between Coil De-energization and NC Contact Closing 9 ... 16 ms

Between Coil De-energization and NO Contact Opening 4 ... 11 ms  
 Between Coil Energization and NC Contact Opening 7 ... 21 ms  
 Between Coil Energization and NO Contact Closing 10 ... 26 ms

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 Screw Terminals

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## Dimensions

Product Net Width	44 mm
Product Net Depth / Length	74 mm
Product Net Height	74 mm
Product Net Weight	0.326 kg

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## Popular Downloads

Data Sheet, Technical Information	No
Instructions and Manuals	9AKK107492A7057

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## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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## Categories

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

