PRODUCT-DETAILS

AX12-30-01-86

AX12-30-01-86 400-415V50Hz/415V-440V60Hz Contactor

General Information

Extended Product Type	AX12-30-01-86
Product ID	1SBL911074R8601
EAN	3471522394866
Catalog Description	AX12-30-01-86 400-415V50Hz/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	3471522394866
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) 25 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 3/4 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 7.5 Hp (550 ... 600 V AC) Three Phase 10 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 °C 26 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I_e)	(690 V) 40 °C 25 A (690 V) 70 °C 18 A (220 / 240 V) 55 °C 22 A
Rated Operational Current AC-3 (I_e)	(220 / 230 / 240 V) 55 °C 12 A (380 / 400 V) 55 °C 12 A (415 V) 55 °C 12 A (440 V) 55 °C 9 A (500 V) 55 °C 9 A (690 V) 55 °C 7 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) 4 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) 2 A (500 V) 2 A (690 V) 2 A (380 / 440 V) 3 A
Rated Short-time Withstand Current (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 120 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 26 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 280 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 70 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for Ie > 100 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

Dimensions

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

Popular Downloads

Data Sheet, Technical Information	No
Instructions and Manuals	9AKK107492A7057

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

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