

PRODUCT-DETAILS

AF63-30-11 100-250V 50Hz / 100-250V 60Hz / 100-250V DC

AF63-30-11 100-250V 50Hz / 100-250V 60Hz / 100-250V DC Contactor



Conoral	Information
General	intormation

Extended Product Type	AF63-30-11 100-250V 50Hz / 100-250V 60Hz / 100-250V DC
Product ID	1SBL377001R7011
EAN	3471522115003

Catalog Description

AF63-30-11 100-250V 50Hz / 100-250V 60Hz / 100-250V DC Contactor

Long Description

AF63 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC and 220 V DC. The contactors can also be used for many other applications such as bypass, capacitor switching, lighting, DC power circuits... The AF... contactors are fitted with an electronic coil interface which accepts a wide control voltage range, on AC 50/60 Hz or DC supplies. The same contactor can accept various supply voltages according to the different countries where the electrical equipment will be installed, or some fluctuation in the control voltage due to the local supply or network. The AF... contactors are also fully suitable for operation in AC or DC control circuit liable to voltage interruptions or voltage dip risks. Advantages: - Wide voltage range, e.g. 100 ... 250 V AC and DC - Can manage large voltage variations - Reduced power consumption - Very distinct closing and opening - Noise free - Can withstand voltage interruptions or voltage dips in the control supply (≤ 20 ms). The AF... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles and 2 built-in auxiliary contacts, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available.

Classifications

Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching

EC000066 - Magnet contactor, AC-switching

ETIM 5

EC000066 - Magnet contactor, AC-switching

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	140 mm
Package Level 1 Depth / Length	146 mm
Package Level 1 Height	96 mm
Package Level 1 Gross Weight	1.22 kg
Package Level 1 EAN	3471522115003
Package Level 2 Units	box 20 piece
Package Level 2 Gross Weight	24.4 kg

CB Certificate	CB_CN45489
CCC Certificate	CCC_2018010304134049 CCC_2010010304402983
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CE	1SBD250803U1000
EAC Certificate	EAC_RU C-FR ME77 B01010
Environmental Information	1SBD250021E1002
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407734P0003
RoHS Information	1SBD250803U1000
UL Certificate	UL_20120830-E312527-10-1
UL Listing Card	UL_E312527

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Close to Contactor without Thermal O/L Relay -40 +70 °C
	Close to Contactor Fitted with Thermal O/L Relay -25 +55 °C
Maximum Operating	3000 m
Altitude Permissible	
RoHS Status	Following EU Directive 2011/65/EU

Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary	1

Contacts NC Main Circuit 690 V Rated Operational Voltage Main Circuit 690 V Extended Prequency (f) Supply Circuit 50 80 Hz Conventional Extension acc. to IEC 60947-4-1, open Contactors q = 40° C1 5.8 A Rated Operational Current (680 V) 4 0° C115.8 (680 V) 7.0 °C 16.8 A AC-1 (l_s) (680 V) 7.0 °C 16.9 A Rated Operational Current (220 / 230 / 240 V) 5.5 °C 6.9 A AC-3 (l_s) (220 / 230 / 240 V) 5.5 °C 6.9 A Rated Operational Power (220 / 230 / 240 V) 5.5 °C 6.9 A AC-3 (l_s) (220 / 230 / 240 V) 5.5 °C 6.9 A Rated Operational Power (220 / 230 / 240 V) 5.5 °C 6.9 A AC-3 (l_s) (220 / 230 / 240 V) 5.5 °C 6.9 A Rated Operational Power (220 / 230 / 240 V) 5.5 °C 6.9 A AC-3 (l_s) (200 / 230 / 240 V) 5.5 °C 6.9 A Read Operational Power (220 / 230 / 240 V) 5.9 °C 6.9 A AC-4 (l_s) (200 / 230 / 240 V) 5.9 °C 6.9 A Read Operational Current (220 / 240 V) 4.4 °C 7.0 °C 7.	Contacts NO	
Rated Prequency (f) Supply Circuit 50 60 Hz		1
Conventional Free-air	Rated Operational Voltage	Main Circuit 690 V
Rated Operational Current (690 V) 4 0": C1126 A (690 V) 7 0": C126 A	Rated Frequency (f)	Supply Circuit 50 60 Hz
AC-1 (I _e) Rated Operational Current (220 / 230 / 240 V) 55 ° C6 5A AC-3 (I _e) (380 / 400 V) 55 ° C6 5A (440 V) 75 ° C6		acc. to IEC 60947-5-1, q = 40 °C 16 A acc. to IEC 60947-4-1, Open Contactors q = 40 °C 125 A
AC-3 (I _e) (380 / 400 V) 15 ° C 65 A (144 V) 55 ° C 65 A (144 V)	·	(690 V) 40 °C 115 A (690 V) 55 °C 95 A (690 V) 70 °C 80 A
AC-3 (Pg) (380 / 400 fv) 30 KWT (415 V) 37 kWT (416 V) 37 kWT (500 V) 37 KWT (50	·	(220 / 230 / 240 V) 55 °C 65 A (380 / 400 V) 55 °C 65 A (415 V) 55 °C 65 A (440 V) 55 °C 65 A (500 V) 55 °C 55 A (690 V) 55 °C 43 A
AC-15 (I _e) AC-15 (I _e) (24 / 127 V) 5 A (380 / 440 V) 3 A (800 V) 2 A (80	Rated Operational Power AC-3 (P _e)	(220 / 230 / 240 V) 18.5 KWT (380 / 400 V) 30 KWT (415 V) 37 KWT (440 V) 37 KWT (500 V) 37 KWT (690 V) 37 KWT
Devices gG Type Fuses 125 A Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1300 A Capacity Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630 A Maximum Electrical AC-1 300 cycles per hour Switching Frequency AC-2 / AC-4 150 cycles per hour Rated Operational Current (125 V) 0.55 / 698 A DC-13 (I _e) (24 V) 6 / 144 A CD-13 (I _e) (250 V) 0.3 / 75 A (48 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 1 / 72 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 1 / 72 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A (49 V) 2.8 / 132 A (250 V) 0.3 / 75 A Read Insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V Rated Insulation Voltage (U _{Imp}) 8 kV Maximum	·	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Capacity Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630 A Maximum Electrical AC-1 300 cycles per houn AC-2 / AC-2 / AC-4 150 cycles per houn AC-3 300 cycles per houn AC-3 300 cycles per houn Rated Operational Current C125 V) 0.55 / 69 A (24 V) 6 / 144 A (25 V) 0.7 75 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A Rated Insulation Voltage (U ₁) Rated Insulation Voltage (U ₂) Rated Insulation Voltage (U ₃) Rated Insulation Voltage (U ₄) Rated Insulation Voltage (U ₁) Rated Insulation Voltage (U ₂) Rated Insulation Voltage (U ₃) Rated Insulation Voltage (U ₄) Rated Insulation Voltage (U ₁) Rated Control Circuit (Voltage Other 100 250 V Othage (U ₂) Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2.10 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1.2 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 1. 95 N Between Coil De-energization and NC Contact Opening 30 110 ms Between Coil De-energization and NC Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 30		Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 125 A
Switching Frequency Rated Operational Current DC-13 (I _e) Rated Operational Current C24 V) 6.7144 (25 V) 0.55 / 69 A C30 V) 0.57 / 69 A C42 V) 6.7144 (25 V) 0.57 / 69 A C48 V) 2.8 / 134 A C72 V) 1.772 A Rated Insulation Voltage Rated Insulation Voltage Rated Insulation Voltage Rated Insulation Voltage Rated Impulse Withstand Voltage (U _{imp}) Rated Impulse Withstand Voltage (U _{imp}) Maximum Mechanical Switching Frequency Rated Control Circuit Voltage (U _c) C0 IC Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rat	_	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630 A
DC-13 (I _e) (24 V) 6 / 144 A (250 V) 0.3 / 75 A (28 V) 2.8 / 134 A (27 V) 1 / 72 A Rated Insulation Voltage (U ₁) Rated Insulation Voltage (U ₁) Rated Insulation Voltage (U ₁) Rated Impulse Withstand Voltage (U _{imp}) Rated Impulse Withstand Voltage (U _{imp}) Maximum Mechanical Switching Frequency Rated Control Circuit Voltage (U _c) Rough Insulation Flexible with Cable End 6 16 m ² Between Coil Energization and NC Contact Closing 35 115 ms Between Coil Energization and NC Contact Opening 27 95 ms Between Coil Energization and NC Contact Closing 30 100 ms Connecting Capacity Connecting Capacity Flexible with Cable End 6 25 m ² Connecting Capacity Flexible with Cable End 6 25 m ² Flexible with Cable End 0.75 2.5 mm ² Connecting Capacity Flexible with Cable End 0.75 2.5 mm ² Connecting Capacity		AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 300 cycles per hour
(U _i) acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 1000 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V Rated Impulse Withstand 8 kV Voltage (U _{imp}) Maximum Mechanical Switching Frequency Rated Control Circuit Voltage (U _c) 60 Hz 100 250 V DC Operation 100 250 V Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 30 115 ms Between Coil De-energization and NC Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 37 95 ms Between Coil Energization and NC Contact Closing 30 100 ms Connecting Capacity Main Connecting Capacity Main Flexible with Cable End 6 16 m² Circuit Rigid Cable 6 25 m² Connecting Capacity	-	(125 V) 0.55 / 69 A (24 V) 6 / 144 A (250 V) 0.3 / 75 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A
Voltage (U _{imp}) Maximum Mechanical 300 cycles per hour Switching Frequency Rated Control Circuit 50 Hz 100 250 V 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V DC Operate Time Determined In Max. Rated Control Circuit Voltage 50 Hz 210 V DC Departe Time Determined In Max. Rated Control Circuit Voltage 60 Hz 210 V DC Departe Time Detween Coil Departe Time Detween Coi	-	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Switching Frequency Rated Control Circuit Voltage (U _c) Coil Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Volt	•	8 kV
Voltage (U _c) 60 Hz 100 250 V DC Operation 100 250 V Coil Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Operate Time Between Coil De-energization and NC Contact Closing 35 115 ms Between Coil De-energization and NC Contact Opening 27 95 ms Between Coil Energization and NC Contact Opening 27 95 ms Between Coil Energization and NC Contact Closing 30 100 ms Connecting Capacity Main Flexible with Cable End 6 16 m² Circuit Flexible with Cable End 0.75 2.5 m² Connecting Capacity		300 cycles per hour
Holding at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.1 10 Fx Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.1 10 Fx Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.1 10 Fx Pull-in at Max. Rated Control Circuit Voltage 50 Hz 7 2.1 10 Fx Pull-in		50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
Between Coil De-energization and NO Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 27 95 ms Between Coil Energization and NO Contact Opening 27 95 ms Between Coil Energization and NO Contact Closing 30 100 ms Connecting Capacity Main Flexible with Cable End 6 16 m² Circuit Rigid Cable 6 25 m² Connecting Capacity Flexible with Cable End 0.75 2.5 mm²	Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A
Circuit Rigid Cable 6 25 m² Connecting Capacity Flexible with Cable End 0.75 2.5 m²²	Operate Time	Between Coil De-energization and NC Contact Closing 35 115 ms Between Coil De-energization and NO Contact Opening 30 110 ms Between Coil Energization and NC Contact Opening 27 95 ms Between Coil Energization and NO Contact Closing 30 100 ms
		Flexible with Cable End 6 16 m² Rigid Cable 6 25 m²
		Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 m²

Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Terminal Type	Screw Terminals

Dimensions	
Product Net Width	82 mm
Product Net Depth / Length	108 mm
Product Net Height	110 mm
Product Net Weight	1.22 kg

Popular Downloads	
Data Sheet, Technical Information	1SNC001003C0202
Instructions and Manuals	FPTC407734P0003

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors











