

PRODUCT-DETAILS

AF50-30-22 100-250V 50Hz / 100-250V 60Hz / 100-250V DC

AF50-30-22 100-250V 50Hz / 100-250V 60Hz / 100-250V DC Contactor



General Information

Extended Product Type	AF50-30-22 100-250V 50Hz / 100-250V 60Hz / 100-250V DC
Product ID	1SBL357001R7022
EAN	3471522236609

Catalog Description

AF50-30-22 100-250V 50Hz / 100-250V 60Hz / 100-250V DC Contactor

Long Description

AF50 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 2-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, 2nd stack with 4 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.

Ordering

Minimum Order Quantity	1 piece

Customs Tariff Number 85364900

opular Downloads	
ata Sheet, Technical 1SNC0010 formation	03C0202
structions and Manuals FPTC4077	′34P0003
vimensions	
roduct Net Width	70 mm
roduct Net Depth / ength	140.3 mm
roduct Net Height	110 mm
roduct Net Weight	1.22 kg
echnical	
umber of Main Contacts O	3
umber of Main Contacts C	0
umber of Auxiliary ontacts NO	2
umber of Auxiliary ontacts NC	2
tandards IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, CSA C22-2 N°14, IEC (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), IEC 61373, For compliance confirm applicable parts based on your application and combination, please your ABB sales representation.	ole parts), nation on e consult
ated Operational Voltage Main Circ	entatives.
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CCC Certificate

CQC Certificate

	(220 / 240 V) 4 A (380 / 400 V) 3 A
Short-Circuit Protective Devices	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 100 A
Maximum Breaking Capacity	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
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Rated Operational Current DC-13 (I _e)	(24 V) 6 / 144 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A (125 V) 0.55 / 69 A (250 V) 0.3 / 75 A
Rated Insulation Voltage (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) 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp})	8 kV
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 100 250 V 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
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
Connecting Capacity Main Circuit	Flexible with Cable End 6 16 mm² Rigid Cable 6 25 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 mm²
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Connecting Terminals (delivered in open position) Main Poles	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
Terminal Type	Screw Terminals
Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 +55 °C Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor for Storage -60 +80 °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 2011/65/EU
Certificates and Declarations (Document N	

CCC_2008010304269002

CQC2018010304134049

	CQC2010010304402983
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001624 2020980304001225
Declaration of Conformity - CE	1SBD250803U1000
EAC Certificate	EAC_RU C-FR ME77 B01010
Environmental Information	1SBD250020E1002
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407734P0003
RMRS Certificate	RMRS_1802704280
RoHS Information	1SBD250803U1000
UL Certificate	UL_20120830-E312527-10-1
UL Listing Card	UL_E312527

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	142 mm
Package Level 1 Depth / Length	190 mm
Package Level 1 Height	136 mm
Package Level 1 Gross Weight	1.22 kg
Package Level 1 EAN	3471522236609
Package Level 2 Units	box 8 piece
Package Level 2 Width	503 mm
Package Level 2 Depth / Length	153 mm
Package Level 2 Height	307 mm
Package Level 2 Gross Weight	9.76 kg
Package Level 3 Units	84 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
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529

Categories

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

