

PRODUCT-DETAILS

## AF75-22-00 20-60V DC AF75-22-00 20-60V DC Contactor



General Information	
Extended Product Type	AF75-22-00 20-60V DC
Product ID	1SBL417501R7200
EAN	3471522115423
Catalog Description	AF75-22-00 20-60V DC Contacto
Long Description	AF75 4-pole contactors are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces) and generally for controlling power circuits up to 690 V AC and 440 V DC. The contactors can also be used for many other applications such lighting 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 4-pole contactors are of the block type design Main poles and auxiliary contact blocks: 2 N.O. + 2 N.C. main poles, 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

Popular Downloads

Data Sheet, Technical Information	1SNC001003C0202
Instructions and Manuals	FPTC407734P0003

Dimensions	
Product Net Width	92 mm
Product Net Depth / Length	119.5 mm
Product Net Height	110 mm
Product Net Weight	1.42 kg

Technical	
Number of Main Contacts NO	2
Number of Main Contacts NC	2
Number of Auxiliary Contacts NO	С
Number of Auxiliary Contacts NC	0
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, CSA C22-2 N°14, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011 (on request), IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.
Rated Operational Voltage	Main Circuit 690 V
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 125 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 125 (690 V) 55 °C 105 (690 V) 70 °C 85
Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4- 1	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 160 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 Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	8 kV
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	DC Operation 20 60 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.8 W Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 2.8 W 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

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

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	Between Coil Energization and NO Contact Closing 30 100 ms
Connecting Capacity Main Circuit	Flexible with Cable End 6 16 mm <sup>2</sup> Rigid Cable 6 25 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm Rigid Cable 1 4 mm
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 IP10
Connecting Terminals (delivered in open position) Main Poles	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
Terminal Type	Screw Terminals
Technical UL/CSA	
General Use Rating UL/CSA	(600 V AC) 105 A
Environmental Ambient Air Temperature	Close to Contactor for Storage -60 +80 °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 I
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 3 g Shock Direction: A 20 g Shock Direction: B2 10 g Shock Direction: C1 20 g Shock Direction: C2 20 g
RoHS Status	Following EU Directive 2011/65/EU
Certificates and Declarations (Documen	t Number)
CB Certificate	CB_CN45489
CCC Certificate	CCC_2018010304134049
CQC Certificate	CQC2018010304134049 CQC2010010304402983

CQC Certificate	CQC2018010304134049 CQC2010010304402983
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001624 2020980304001225
Declaration of Conformity - CE	1SBD250803U1000
Environmental Information	1SBD250022E1002
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407734P0003
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	1.42 kg

## AF75-22-00 20-60V DC

## Weight

Package Level 1 EAN	3471522115423
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	11.36 kg
Package Level 3 Units	84 piece

Classifications Object Classification Code	
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

