



 PRODUCT-DETAILS

AF75-40-00RT 48-130V 50Hz / 48-130V 60Hz / 48-130V DC

AF75-40-00RT 48-130V 50Hz / 48-130V 60Hz / 48-130V DC Contactor



General Information

Extended Product Type:	AF75-40-00RT 48-130V 50Hz / 48-130V 60Hz / 48-130V DC
Product ID:	1SBL417210R6900
EAN:	3471522245595
Catalog Description:	AF75-40-00RT 48-130V 50Hz / 48-130V 60Hz / 48-130V DC Contactor
Long Description:	<p>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: 4 N.O. 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.</p>

Display Name: AF75-40-00RT 48-130V 50Hz / 48-130V 60Hz / 48-130V DC

Ordering

Minimum Order Quantity: 1 piece
 Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SNC001003C0202
 Instructions and Manuals: FPTC407767P0002
 CAD Dimensional Drawing: 2CDC001079B0201

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: 4
 Number of Main Contacts NC: 0
 Number of Auxiliary Contacts NO: 0
 Number of Auxiliary Contacts NC: 0
 Number of Poles: 4P
 Standards: IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, 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
 Rated Frequency (f): Control Circuit 50 / 60 Hz
 Main Circuit 50 / 60 Hz
 Rated Operational Current AC-1 (I_e): (690 V) 40 °C 125 A
 (690 V) 55 °C 105 A
 (690 V) 70 °C 85 A
 Rated Operational Current AC-3 (I_e): (415 V) 55 °C 72 A
 (440 V) 55 °C 70 A
 (500 V) 55 °C 65 A
 (690 V) 55 °C 46 A
 (380 / 400 V) 55 °C 75 A
 (220 / 230 / 240 V) 55 °C 75

Rated Operational Current DC-1 (I_e):

- (110 V) 2 Poles in Series, 40 °C 120 A
- (110 V) 2 Poles in Series, 55 °C 105 A
- (110 V) 2 Poles in Series, 70 °C 85 A
- (110 V) 3 Poles in Series, 40 °C 120 A
- (110 V) 3 Poles in Series, 55 °C 105 A
- (110 V) 3 Poles in Series, 70 °C 85 A
- (110 V) 4 Poles in Series, 40 °C 120 A
- (110 V) 4 Poles in Series, 55 °C 105 A
- (110 V) 4 Poles in Series, 70 °C 85 A
- (220 V) 3 Poles in Series, 40 °C 120 A
- (220 V) 3 Poles in Series, 55 °C 105 A
- (220 V) 3 Poles in Series, 70 °C 85 A
- (220 V) 4 Poles in Series, 40 °C 120 A
- (220 V) 4 Poles in Series, 55 °C 105 A
- (220 V) 4 Poles in Series, 70 °C 85 A
- (72 V) 1-Pole, 40 °C 120 A
- (72 V) 1-Pole, 55 °C 105 A
- (72 V) 1-Pole, 70 °C 85 A
- (72 V) 2 Poles in Series, 40 °C 120 A
- (72 V) 2 Poles in Series, 55 °C 105 A
- (72 V) 2 Poles in Series, 70 °C 85 A
- (72 V) 3 Poles in Series, 40 °C 120 A
- (72 V) 3 Poles in Series, 55 °C 105 A
- (72 V) 3 Poles in Series, 70 °C 85 A
- (72 V) 4 Poles in Series, 40 °C 120 A
- (72 V) 4 Poles in Series, 55 °C 105 A
- (72 V) 4 Poles in Series, 70 °C 85 A

Rated Operational Current DC-3 (I_e):

- (110 V) 2 Poles in Series, 40 °C 120 A
- (110 V) 2 Poles in Series, 55 °C 105 A
- (110 V) 2 Poles in Series, 70 °C 85 A
- (110 V) 3 Poles in Series, 40 °C 120 A
- (110 V) 3 Poles in Series, 55 °C 105 A
- (110 V) 3 Poles in Series, 70 °C 85 A
- (110 V) 4 Poles in Series, 40 °C 120 A
- (110 V) 4 Poles in Series, 55 °C 105 A
- (110 V) 4 Poles in Series, 70 °C 85 A
- (220 V) 3 Poles in Series, 40 °C 120 A
- (220 V) 3 Poles in Series, 55 °C 105 A
- (220 V) 3 Poles in Series, 70 °C 85 A
- (220 V) 4 Poles in Series, 40 °C 120 A
- (220 V) 4 Poles in Series, 55 °C 105 A
- (220 V) 4 Poles in Series, 70 °C 85 A
- (72 V) 1-Pole, 40 °C 120 A
- (72 V) 1-Pole, 55 °C 105 A
- (72 V) 1-Pole, 70 °C 85 A
- (72 V) 2 Poles in Series, 40 °C 120 A
- (72 V) 2 Poles in Series, 55 °C 105 A
- (72 V) 2 Poles in Series, 70 °C 85 A
- (72 V) 3 Poles in Series, 40 °C 120 A
- (72 V) 3 Poles in Series, 55 °C 105 A
- (72 V) 3 Poles in Series, 70 °C 85 A
- (72 V) 4 Poles in Series, 40 °C 120 A
- (72 V) 4 Poles in Series, 55 °C 105 A
- (72 V) 4 Poles in Series, 70 °C 85 A

Rated Operational Current DC-5 (I_e):	(110 V) 2 Poles in Series, 40 °C 100 A (110 V) 2 Poles in Series, 55 °C 100 A (110 V) 2 Poles in Series, 70 °C 85 A (110 V) 3 Poles in Series, 40 °C 120 A (110 V) 3 Poles in Series, 55 °C 105 A (110 V) 3 Poles in Series, 70 °C 85 A (110 V) 4 Poles in Series, 40 °C 120 A (110 V) 4 Poles in Series, 55 °C 105 A (110 V) 4 Poles in Series, 70 °C 85 A (220 V) 3 Poles in Series, 40 °C 75 A (220 V) 3 Poles in Series, 55 °C 75 A (220 V) 3 Poles in Series, 70 °C 75 A (220 V) 4 Poles in Series, 40 °C 100 A (220 V) 4 Poles in Series, 55 °C 100 A (220 V) 4 Poles in Series, 70 °C 85 A (72 V) 1-Pole, 40 °C 75 A (72 V) 1-Pole, 55 °C 75 A (72 V) 1-Pole, 70 °C 75 A (72 V) 2 Poles in Series, 40 °C 120 A (72 V) 2 Poles in Series, 55 °C 105 A (72 V) 2 Poles in Series, 70 °C 85 A (72 V) 3 Poles in Series, 40 °C 120 A (72 V) 3 Poles in Series, 55 °C 105 A (72 V) 3 Poles in Series, 70 °C 85 A (72 V) 4 Poles in Series, 40 °C 120 A (72 V) 4 Poles in Series, 55 °C 105 A (72 V) 4 Poles in Series, 70 °C 85 A
Rated Operational Power AC-3 (P_e):	(415 V) 40 kW (440 V) 40 kW (500 V) 45 kW (690 V) 40 kW (380 / 400 V) 37 kW (220 / 230 / 240 V) 22 kW
Rated Short-time Withstand Current Low Voltage (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 135 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 630 A
Rated Insulation Voltage (U_i):	acc. to IEC 60947-4-1 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Rated Control Circuit Voltage (U_c):	50 Hz 48 ... 130 V 60 Hz 48 ... 130 V DC Operation 48 ... 130 V
Power Loss:	at Rated Operating Conditions AC-1 per Pole 7 W at Rated Operating Conditions AC-3 per Pole 2 W
Mounting on DIN Rail:	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied) :	2 x M6 Screws Placed Diagonally
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP10 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Terminal Type:	Ring-Tongue Terminals
Product Name:	Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA: Main Circuit 600 V

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 (Uc) -40 ... 70 °C

Maximum Operating Altitude Permissible: Without Derating 3000 m

Shock and Vibration Withstand acc. to IEC Category 1, Class B 61373:

Pollution Degree: 3

Material Compliance

Conflict Minerals Reporting Template (CMRT): 9AKK108467A5658

REACH Declaration: 2CMT2021-006202

RoHS Declaration: 2CMT2021-006277

RoHS Information: Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

SCIP: dc055401-908e-4b9c-942e-ca66cbf19bbe Bulgaria

Simplified SCIP: 0e1bb077-9bf5-4ac5-b116-e69fda59aab6 Germany
100a2563-0db4-4eec-8ef5-066ac05c24af Italy
11ce86f3-e7ee-434f-a639-001cba3e83e2 Poland
22783de8-83cc-4656-807d-a36ea67b28de Hungary
24c3baec-7f67-4f80-be1f-79f50e473d6d Netherlands
319576ce-a1d8-443b-b548-0515aafd4750 Denmark
3f7214e6-31fe-4a6a-bc9c-6c07813618af Germany
46800cfb-77ae-4f23-9f6e-33bb6d70cce1 Croatia
4dc75e29-6744-41e6-97f9-388a160fd5f2 Greece
57b708b9-12f8-49f1-840d-01aa4d0c0e8f Germany
58f1e035-e964-40c5-a997-53ac2f6a5c32 Hungary
601300b5-3769-4236-aea8-88271ffbbba76 Czech Republic
75169ec8-dabd-447f-b43a-ef7a574f4010 Estonia
7fd2d326-0d20-48b8-8663-8851d2bc66ec France
848c1a46-aa5e-4d1c-99ec-fadc9e9a601c Belgium
98433922-8315-4aed-ad6d-43918bc7675c Spain
a90aff20-32e5-415c-a444-aa1942b9abc6 Poland
b56ce086-9f11-4168-9a2e-e4d2558f2393 Belgium
c362a33e-f8ea-432e-9d05-35a6b62bb966 Germany
d03057df-590d-4be1-acd0-47047ac075b8 Sweden
e4db9bfe-a837-47f0-b18c-165edf7655f5 Finland
e647ae7e-912d-46eb-a0c7-40170d531db4 Norway
e7c13181-35c8-4e9c-8fc6-33b0d017bea0 France
e83cd4bc-c7e2-47ad-aae7-6ac2594a6590 Portugal
ecc23fe6-f53a-42d2-b989-ee1b15728d7b Sweden
fab90a1e-7428-43b1-b60f-0fcbede68d47 Poland
ffa86fbd-ef77-49ff-829f-ac418fe68e4d Germany

WEEE B2C / B2B: Business To Business

WEEE Category: 5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

Environmental Product Declaration - EPD: No declaration needed

Certificates and Declarations

CCC Certificate:	CCC_2018010304134049
CQC Certificate:	CQC2018010304134049 CQC2010010304402983
Declaration of Conformity - CCC:	2020980304001624 2020980304001225
Declaration of Conformity - CE:	1SBD250803U1000
Declaration of Conformity - UKCA:	1SBD250820U1000
UL Certificate:	UL-US-L312527-291-50119991-3 UL-CA-2305459-0

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:	1.42 kg
Package Level 1 EAN:	3471522245595

External Classifications and Standards

Object Classification Code:	Q
ETIM 7:	EC000066 - Power contactor, AC switching
ETIM 8:	EC000066 - Power contactor, AC switching
ETIM 9:	EC000066 - Power contactor, AC switching
eClass:	V11.0 : 27371003
UNSPSC:	39121529

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > AF Contactors > AF75

