

PRODUCT-DETAILS

## AF370-40-00-14 AF370-40-00-14 Contactor



General Information		
Extended Product Type	AF370-40-00-14	Ļ
Product ID	1SFL607102R1400	-
EAN	7320500504413	3
Catalog Description	AF370-40-00-14 Contactor	
Long Description	The AF370-40-00-14 is a 4 pole - 1000 V IEC or 600 V UL contactor with Main Circuit Bars, controlling motors up to 200 kW / 400 V AC (AC-3) / and switching power circuits up to 525 A (AC-1) or 420 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.	
Ordering		
Minimum Order Quantity	1 piece	•
Customs Tariff Number	85364900	- - -
Popular Downloads		
Data Sheet, Technical Information	1SBC100192C0206	- ) -
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## AF370-40-00-14

Instructions and Manuals	1SFC100008M0201
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SFB535001G1123

Dimensions	
Product Net Width	184 mm
Product Net Depth / Length	180 mm
Product Net Height	225 mm
Product Net Weight	5.7 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	C
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors $\Theta$ = 40 °C 525 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(1000 V) 40 °C 400 A (1000 V) 60 °C 350 A (1000 V) 70 °C 290 A (690 V) 40 °C 525 A (690 V) 60 °C 425 A (690 V) 70 °C 350 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 370 A (440 V) 55 °C 370 A (380 / 400 V) 55 °C 370 A (220 / 230 / 240 V) 55 °C 370 A
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 200 kW (440 V) 200 kW (380 / 400 V) 200 kW (220 / 230 / 240 V) 110 kW
Rated Breaking Capacity AC-3	8 x le AC-3
Rated Making Capacity AC-3	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 630 A
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2960 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1208 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1709 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 5000 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour
Rated Insulation Voltage $(U_i)$	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> )	Main Circuit 8 kV

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5 millior	
300 cycles per hou	
(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C	
50 Hz 250 500 \ 60 Hz 250 500 \ DC Operation 250 500 \	
Holding at Max. Rated Control Circuit Voltage 50 Hz 20.4 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 20.4 V·A Holding at Max. Rated Control Circuit Voltage DC 4.7 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 550 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 550 V·A Pull-in at Max. Rated Control Circuit Voltage DC 650 W	
Between Coil De-energization and NO Contact Opening 45 80 ms Between Coil Energization and NO Contact Closing 30 60 ms	
Flexible 2 x 70 185 mm² Rigid Al-Cable 1 x 185 240 mm² Rigid Cu-Cable 2 x 70 185 mm²	
Flexible with Ferrule 2x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 2.5 mm Flexible 2x0.75 2.5 mm Solid 2 x 1 4 mm Stranded 1 x 1 4 mm	
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP2( acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00	
Main Circuit: Bars	
(600 V AC) 420 A (200 208 V AC) Three Phase 50 Hp (200 V AC) Three Phase 125 hp (208 V AC) Three Phase 125 hp (220 240 V AC) Three Phase 150 hp (440 480 V AC) Three Phase 125 Hp	
(440 480 V AC) Three Phase 125 H (440 480 V AC) Three Phase 300 h (550 600 V AC) Three Phase 150 H (550 600 V AC) Three Phase 350 h	
Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C	
Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C	
Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C	
Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C	
Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C Without Derating 3000 n	
Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C Without Derating 3000 m 9AKK108467A5658	

Toxic Substances Control Act - TSCA

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2CMT2023-006525

WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Circular Value	
ABB EcoSolutions	Ye
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 76.3 %
End of Life Instructions	1SFC100104D0201
Group Waste to Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility
Improved Resource Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Sustainable Material Content	Recycled Metal - 33 %
Eco Transparency	
Environmental Product Declaration - EPD	1SFC100104D0201
Certificates and Declarations	
Certificates and Declarations	
Certificates and Declarations	14-LD1092198-PDA
	14-LD1092198-PDA BV_36353_A0Bv
ABS Certificate	
ABS Certificate BV Certificate	BV_36353_A0BV
ABS Certificate BV Certificate CB Certificate	BV_36353_A0BV SE-89316
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity	BV_36353_A0BV SE-89316 CQC2014010304676670
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity	BV_36353_A0BV SE-89316 CQC2014010304676670 2020980304001305
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA	BV_36353_A0BV SE-89316 CQC2014010304676670 2020980304001305 2CMT2015-005438
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA EAC Certificate	BV_36353_A0BV SE-89316 CQC2014010304676670 2020980304001305 2CMT2015-005439 2CMT2020-006118
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA EAC Certificate LR Certificate	BV_36353_A0BV SE-89316 CQC2014010304676670 2020980304001305 2CMT2015-005439 2CMT2020-006118 9AKK107046A8618 LR_14_70011(E1)
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA EAC Certificate LR Certificate PRS Certificate	BV_36353_A0BV           SE-89316           CQC2014010304676670           2020980304001305           2CMT2015-005439           2CMT2020-006118           9AKK107046A8618           LR_14_70011(E1)           TE_2092_880423_16
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity	BV_36353_A0BV SE-89316 CQC2014010304676670 2020980304001305 2CMT2015-005439 2CMT2020-006118 9AKK107046A8618

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	212 mm
Package Level 1 Depth / Length	262 mm
Package Level 1 Height	212 mm
Package Level 1 Gross Weight	6.4 kg
Package Level 1 EAN	7320500504413

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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	
ETIM 8	EC000066 - Power contactor, AC switching	
eClass	V11.0 : 27371003	
UNSPSC	39121529	
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors	
E-Number (Finland)	3707252	

## Categories

 $\text{Low Voltage Products and Systems} \rightarrow \text{Control Products} \rightarrow \text{Contactors} \rightarrow \text{Block Contactors} \rightarrow \text{AF Contactors} \rightarrow \text{AF370}$ 

