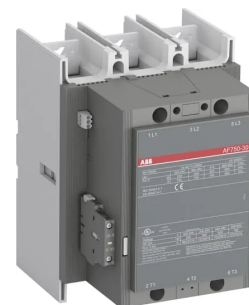


Product No: AF750301171

ABB CONTACTOR 1050A AC1750A AC3 3P 3NO 250-500VACDC COIL AF750301171

FEATURES

- Add-on auxiliary contact.
- Built-in surge suppression.
- Reduced panel energy consumption.
- Very distinct closing and opening.
- Can withstand short voltage dips and voltage sags.
- Can be used in 1000V applications.
- For connection with built-in cable clamps.
- Panel mounting.



General Information

Brand	ABB
Product Type	AF Contactors

Technical Attributes

No. of Auxiliary Contacts	1 NO + 1 NC
Cable Sections - Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 2 x 1 ... 4 mm ²
Cable Sections - Main Circuit	Bar 52 mm ² Rigid Al-Cable 300 mm ² Rigid Cu-Cable 300 mm ²
Clamp Type	Main Circuit: Bars
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage DC 7.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 985 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 985 V·A

Pull-in at Max. Rated Control Circuit Voltage DC
910 V·A

Conventional Free-Air Thermal Current - I _{th} (A)	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 1050 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 7500 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 7000 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 60 cycles per hour (AC-3) 300 cycles per hour
Maximum Mechanical Switching Frequency	300 cycles per hour
Mechanical Durability	3 million
No. of Main Contacts	3 NO
No. of Poles	3
Operate Time	Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil De-energization and NO Contact Opening 53 ... 73 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms Between Coil Energization and NO Contact Closing 50 ... 120 ms
Rated Breaking Capacity AC-3	8 x I _e AC-3
Rated Control Voltage	50 Hz 250 ... 500 V 60 Hz 250 ... 500 V DC Operation 250 ... 500 V
Rated Frequency (Hz)	50 / 60
Rated Impulse Withstand Voltage (kV)	8
Rated Insulation Voltage	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Making Capacity AC-3	10 x I _e AC-3
Rated Operational Current AC-1 (A)	(1000 V) 40 °C 1000 A (1000 V) 55 °C 875 A (1000 V) 70 °C 720 A (690 V) 40 °C 1050 A (690 V) 55 °C 875 A (690 V) 70 °C 720 A
Rated Operational Current AC-3 (A)	(415 V) 55 °C 750 A (440 V) 55 °C 750 A (500 V) 55 °C 750 A

(690 V) 55 °C 650 A
 (1000 V) 55 °C 300 A
 (380 / 400 V) 55 °C 750 A
 (220 / 230 / 240 V) 55 °C 750 A

Rated Operational Power AC-3 (kW)	(415 V) 425 kW (440 V) 450 kW (500 V) 520 kW (690 V) 600 kW (1000 V) 400 kW (380 / 400 V) 400 kW (220 / 230 / 240 V) 220 kW
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Rated Operational Voltage AC (V)	Main Circuit 1000 V
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Rated Short-time Withstand Current Low Voltage - I _{cw} (A)	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 6400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 7000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A
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Short-Circuit Protective Devices	gG Type Fuses 1000 A
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Dimensions

Dimensions (mm)	283 * 210 * 242 [H*W*D]
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