

Product No: AF12300114

ABB CONTACTOR 28A ACI 12A AC3 3P 3NO 250-500VACDC COIL INC AUX AF12300114

FEATURES

- Add-on auxiliary contact.
- Built-in surge suppression.
- Reduced panel energy consumption.
- Very distinct closing and opening.
- DIN Rail or panel mounting.



| General Information | |
|---------------------|---------------|
| Brand | ABB |
| Product Type | AF Contactors |

| Technical Attributes | |
|---|--|
| Cable Sections - Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Rigid Solid 1/2x 1 2.5 mm ² Rigid Stranded 1/2x 1 2.5 mm ² |
| Cable Sections - Control Circuit | Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid Solid 1/2x 1 2.5 mm ² Rigid Stranded 1/2x 1 2.5 mm ² |
| Cable Sections - Main Circuit | Flexible with Ferrule 1/2x 0.75 6 mm² Flexible with Insulated Ferrule 1x 0.75 4 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Rigid Solid 1/2x 1 4 mm² Rigid Stranded 1/2x 1 6 mm² |
| Clamp Type | Screw Terminals |
| Conventional Free-Air Thermal Current - Ith (A) | according to IEC 60947-4-1, Open Contactors q = $40 ^{\circ}\text{C}$ 35 A according to IEC 60947-5-1, q = $40 ^{\circ}\text{C}$ 16 A |
| DIN Rail Mounting | TH35-15 (35 x 15 mm Mounting Bar) according to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Bar) according to IEC 60715 |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V |



| | 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 A |
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| Maximum Electrical Switching Frequency | AC-1 600 cycles per hour AC-15 1200 cycles per hour AC-2 / AC-4 300 cycles per hour AC-3 1200 cycles per hour DC-13 900 cycles per hour |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| No. of Auxiliary Contacts | 1 NC |
| No. of Main Contacts | 3 NO |
| No. of Poles | 3 |
| Operate Time | Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NO Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NO Contact Closing 40 95 ms |
| Rated Control Voltage | 50 Hz 250 500 V 60 Hz 250 500 V Operation in DCin CD 250 500 V |
| Rated Frequency (Hz) | 50 / 60 |
| Rated Impulse Withstand Voltage (kV) | 6 |
| Rated Insulation Voltage | acc. to IEC 60947-4-1 690 V acc. to IEC 60947-5-1 690 V according to UL/CSA 600 V |
| Rated Operational Current AC-1 (A) | (690V) 40°C 28A (690V) 60°C 28A (690V) 70°C 24A |
| Rated Operational Current AC-3 (A) | (415V) 60°C 12A (440V) 60°C 12A (500V) 60°C 12.5A (690V) 60°C 9A (380 / 400 V) 60 °C 12 A (220 / 230 / 240 V) 60 °C 12 A |
| Rated Operational Power AC-3 (kW) | (400V) 5.5kW (415V) 5.5kW (440V) 5.5kW (500V) 7.5kW (690V) 7.5kW (380 / 400 V) 5.5 kW (220 / 230 / 240 V) 3 kW |
| Rated Operational Voltage AC (V) | Auxiliary Circuit 690 V Main Circuit 690 V |



| Rated Short-time Withstand Current Low Voltage - Icw (A) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A, for 0.1 s 140 A, for 1 s 100 A |
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| Wire Stripping Length (mm) | 10 |

| Dimensions | |
|-----------------|----------------------|
| Dimensions (mm) | 86 * 45 * 77 [H*W*D] |

| Protection & Standards | |
|------------------------|---|
| Degree of Protection | according to IEC 60529, IEC 60947-1, EN 60529 IP20 Auxiliary Terminals according to IEC 60529, IEC 60947-1, EN 60529 IP20 coils according to IEC 60529, IEC 60947-1, EN 60529 IP20 Main Terminals |
| Standards | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1 |