

# B7-30-10-84

ABB contact for Canada [Print to Pdf..](#)

## General Information

<b>Extended Product Type:</b>	B7-30-10-84
<b>Product ID:</b>	GJL1311001R8104
<b>EAN:</b>	4013614189586
<b>Catalog Description:</b>	B7-30-10-84 Mini Contactor
<b>Long Description:</b>	The B7-30-10 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential buldings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting.



## Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Mini Contactors

## Accessories [Show accessory images](#)

## Ordering

<b>EAN:</b>	4013614189586
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## Dimensions

<b>Product Net Width:</b>	52.5 mm
<b>Product Net Height:</b>	57.5 mm
<b>Product Net Depth:</b>	46.5 mm
<b>Product Net Weight:</b>	0.175 kg

## Container Information

<b>Package Level 1 Units:</b>	10 piece
<b>Package Level 1 Width:</b>	115.0 mm
<b>Package Level 1 Height:</b>	54.0 mm
<b>Package Level 1 Length:</b>	280.0 mm
<b>Package Level 1 Gross Weight:</b>	1.820 kg
<b>Package Level 1 EAN:</b>	4013614416644

## Technical

<b>Number of Poles:</b>	4
<b>Mini Contactor Type:</b>	Mini Contactor

<b>Rated Operational Voltage:</b>	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC DC Main Circuit 12 ... 690 V AC DC Main Circuit 690 V AC
<b>Rated Frequency (f):</b>	Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Auxiliary Circuit 6 kV Main Circuit 6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V acc. to UL/CSA 600 V
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	3
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(220/240V) 40°C 20 A (220/240V) 55°C 16 A (380/440V) 40°C 20 A (380/440V) 55°C 16 A (690V) 40°C 6 A (690V) 55°C 6 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(220 / 230 / 240V) 3.00 kW (400V) 5.50 kW (400V) Three Phase 5.50 kW (440V) 5.50 kW (500V) 5.50 kW (690V) 3.00 kW
<b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	at 40°C Ambient Temp, in Free Air, from a Cold State 10s 96 kA
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Main Circuit 20.00 A
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	110 ... 127 V AC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)
<b>Degree of Protection:</b>	Main Circuit Terminals IP20
<b>Mechanical Durability:</b>	10000000 cycle
<b>Minimum switching capacity [V/mA]:</b>	>17 VLT>200 mA
<b>Maximum Electrical Switching Frequency:</b>	AC-1 300 cycles per hour AC-15 360 cycles per hour AC-3 600 cycles per hour DC-1 600 cycles per hour DC-13 360 cycles per hour DC-3 600 cycles per hour
<b>Connecting Capacity-Main Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity-Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity-Control Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup>

	Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Main Circuit 9 mm
<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
<b>Mounting on DIN Rail:</b>	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
<b>Power Loss:</b>	Per Pole 2 W
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

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## Environmental

<b>Ambient Air Temperature:</b>	Operation -20 ... +55 °C Storage -40 ... +80 °C
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 15g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 5 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

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## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Connecting Capacity-Main Circuit UL/CSA:</b>	Stranded 1/2x 22 ... 10 AWG
<b>Connecting Capacity-Auxiliary Circuit UL/CSA:</b>	Stranded 1/2x 22 ... 10 AWG
<b>Horse Power Rating UL/CSA:</b>	208V AC Three Phase 3.00 Hp 220 ... 240V AC Three Phase 3.00 Hp 440 ... 480V AC Three Phase 5.00 Hp 550 ... 600V AC Three Phase 5.00 Hp
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb
<b>General Use Rating UL/CSA:</b>	600V AC 16.00 A

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## Certificates and Declarations (Document Number)

<b>BV Certificate:</b>	1SAA938000-0203
<b>CB Certificate:</b>	1SAA938000-2002
<b>CCC Certificate:</b>	1SAA938001-3804
<b>cUL Certificate:</b>	1SAA938003-1701
<b>Declaration of Conformity - CE:</b>	1SAD938510-0001
<b>DNV Certificate:</b>	1SAA938000-0305
<b>EAC Certificate:</b>	1SAA920000-2702
<b>GL Certificate:</b>	1SAA938000-0403
<b>LR Certificate:</b>	1SAA938000-0503

**RMRS Certificate:** 1SAA938000-0703  
**RoHS Information:** 1SAA938003-4403  
**UL Certificate:** 1SAA938000-1604

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## Classifications

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**Object Classification Code:** Q  
**ETIM 4.0:** EC000066 - Magnet contactor, AC-switching  
**ETIM 5.0:** EC000066 - Magnet contactor, AC-switching  
**UNSPSC:** 39121529

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