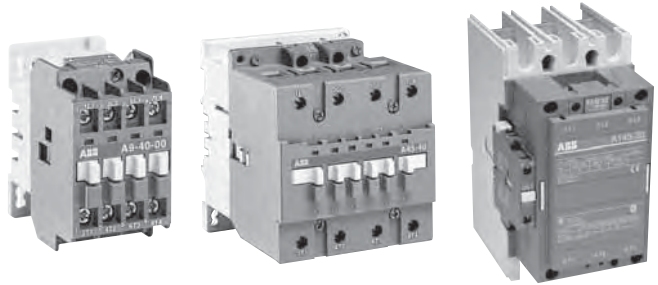


Lighting Contactors

ABB Lighting contactors A9 – A300

1



Applications

Lighting contactors can be used to control a variety of lighting loads including:

- Tungsten filament lighting loads (incandescent)
- Electric discharge lighting loads (ballast)

Description

The A-Line lighting contactors are available with or without an enclosure.

- Maximum operating voltage of 600VAC 60Hz
- Includes 3, 4, 8 or 12 pole versions, other versions on request
- Electrically or mechanically held contactors
- IP 20 protection for connection terminals
- Can be mounted onto a mounting plate or a 35 X 7.5mm DIN rail
- UL/CSA Approved

A9 - A300

Electrically & mechanically held



A9-40-00



A45-40-00



A145-30-11

| Normally Open Power Poles | | | Electrically Held | | | | | Mechanically Held | | | | |
|---------------------------|------------------------------------|-----------------------|-------------------|------------|--------------------|----------------|------------|-------------------|------------|--------------------|----------------|------------|
| Ballast Amp Rating | Incandescent (Tungsten) Amp Rating | Number of Power Poles | Open Type | | UL Type 1 Enclosed | | | Open Type | | UL Type 1 Enclosed | | |
| | | | Catalog number | List price | Enclosure Size | Catalog number | List price | Catalog number | List price | Enclosure Size | Catalog number | List price |
| 15 | 15 | 4 | A9-40-00-84 | \$ 120 | A | A9C4P1-84 | \$ 175 | A9L-40-00-84 | \$ 214 | A | A9LC4P1-84 | \$ 269 |
| 15 | 15 | 8 | A9-80-00-84 | 272 | A | A9C8P1-84 | 327 | A9L-80-00-84 | 460 | A | A9LC8P1-84 | 515 |
| 15 | 15 | 12 | A9-120-00-84 | 392 | A | A9C12P1-84 | 447 | A9L-120-00-84 | 674 | A | A9LC12P1-84 | 729 |
| 30 | 20 | 4 | A16-40-00-84 | 165 | A | A16C4P1-84 | 220 | A16L-40-00-84 | 259 | A | A16LC4P1-84 | 314 |
| 30 | 20 | 8 | A16-80-00-84 | 362 | A | A16C8P1-84 | 417 | A16L-80-00-84 | 550 | A | A16LC8P1-84 | 605 |
| 30 | 20 | 12 | A16-120-00-84 | 527 | A | A16C12P1-84 | 582 | A16L-120-00-84 | 809 | A | A16LC12P1-84 | 864 |
| 30 | 30 | 4 | A16-40L-00-84 | 175 | A | A16C4PL1-84 | 230 | A16L-40L-00-84 | 269 | A | A16LC4PL1-84 | 324 |
| 30 | 30 | 8 | A16-80L-00-84 | 372 | A | A16C8PL1-84 | 427 | A16L-80L-00-84 | 560 | A | A16LC8PL1-84 | 615 |
| 30 | 30 | 12 | A16-120L-00-84 | 537 | A | A16C12PL1-84 | 592 | A16L-120L-00-84 | 819 | A | A16LC12PL1-84 | 874 |
| 35 | 35 | 4 | A26-40-00-84 | 228 | A | A26C4P1-84 | 283 | A26L-40-00-84 | 322 | B | A26LC4P1-84 | 409 |
| 35 | 35 | 8 | A26-80-00-84 | 488 | A | A26C8P1-84 | 543 | A26L-80-00-84 | 676 | B | A26LC8P1-84 | 764 |
| 35 | 35 | 12 | A26-120-00-84 | 716 | B | A26C12P1-84 | 803 | A26L-120-00-84 | 998 | B | A26LC12P1-84 | 1,085 |
| 50 | 50 | 3 | A30-30-10-84 | 252 | A | A30C3P1-84 | 328 | A30L-30-10-84 | 346 | C | A30LC3P1-84 | 522 |
| 60 | 60 | 3 | A40-30-10-84 | 297 | A | A40C3P1-84 | 373 | A40L-30-10-84 | 391 | C | A40LC3P1-84 | 567 |
| 60 | 60 | 4 | A45-40-00-84 | 360 | B | A45C4P1-84 | 536 | A45L-40-00-84 | 454 | C | A45LC4P1-84 | 730 |
| 65 | 65 | 3 | A50-30-00-84 | 300 | B | A50C3P1-84 | 424 | A50L-30-00-84 | 394 | C | A50LC3P1-84 | 618 |
| 65 | 65 | 4 | A50-40-00-84 | 413 | B | A50C4P1-84 | 568 | A50L-40-00-84 | 507 | C | A50LC4P1-84 | 772 |
| 85 | 85 | 3 | A63-30-00-84 | 342 | B | A63C3P1-84 | 502 | A63L-30-00-84 | 436 | C | A63LC3P1-84 | 696 |
| 105 | 105 | 3 | A75-30-00-84 | 383 | B | A75C3P1-84 | 576 | A75L-30-00-84 | 477 | C | A75LC3P1-84 | 770 |
| 105 | 105 | 4 | A75-40-00-84 | 525 | B | A75C4P1-84 | 672 | A75L-40-00-84 | 619 | C | A75LC4P1-84 | 866 |
| 120 | 120 | 3 | A95-30-00-84 | 420 | B | A95C3P1-84 | 720 | --- | --- | --- | --- | --- |
| 200 | 200 | 3 | A145-30-00-84 | 785 | E | A145C3P1-84 | 1,336 | --- | --- | --- | --- | --- |
| 300 | 300 | 3 | A210-30-00-84 | 1,595 | F | A210C3P1-84 | 3,624 | --- | --- | --- | --- | --- |
| 400 | 400 | 3 | A300-30-00-84 | 1,835 | F | A300C3P1-84 | 3,864 | --- | --- | --- | --- | --- |

| Normally Closed Power Poles | | | Electrically Held | | | | | Mechanically Held | | | | |
|-----------------------------|------------------------------------|-----------------------|-------------------|------------|--------------------|----------------|------------|-------------------|------------|--------------------|----------------|------------|
| Ballast Amp Rating | Incandescent (Tungsten) Amp Rating | Number of Power Poles | Open Type | | UL Type 1 Enclosed | | | Open Type | | UL Type 1 Enclosed | | |
| | | | Catalog number | List price | Enclosure Size | Catalog number | List price | Catalog number | List price | Enclosure Size | Catalog number | List price |
| 30 | 20 | 4 | A16-04-00-84 | \$ 165 | A | A16C4NCP1-84 | \$ 220 | A16L-04-00-84 | \$ 259 | A | A16LC4NCP1-84 | \$ 314 |
| 30 | 20 | 8 | A16-08-00-84 | 362 | A | A16C8NCP1-84 | 417 | A16L-08-00-84 | 550 | A | A16LC8NCP1-84 | 605 |
| 30 | 20 | 12 | A16-012-00-84 | 527 | A | A16C12NCP1-84 | 582 | A16L-012-00-84 | 809 | A | A16LC12NCP1-84 | 864 |

| 2 Normally Open & 2 Normally Closed Power Poles | | | Electrically Held | | | | | Mechanically Held | | | | |
|---|------------------------------------|-----------------------|-------------------|------------|--------------------|----------------|------------|-------------------|------------|--------------------|----------------|------------|
| Ballast Amp Rating | Incandescent (Tungsten) Amp Rating | Number of Power Poles | Open Type | | UL Type 1 Enclosed | | | Open Type | | UL Type 1 Enclosed | | |
| | | | Catalog number | List price | Enclosure Size | Catalog number | List price | Catalog number | List price | Enclosure Size | Catalog number | List price |
| 15 | 15 | 2NO/2NC | A9-22-00-84 | \$ 120 | A | A9C22P1-84 | \$ 175 | A9L-22-00-84 | \$ 214 | A | A9LC22P1-84 | \$ 269 |
| 30 | 20 | 2NO/2NC | A16-22-00-84 | 165 | A | A16C22P1-84 | 220 | A16L-22-00-84 | 259 | A | A16LC22P1-84 | 314 |
| 35 | 35 | 2NO/2NC | A26-22-00-84 | 228 | A | A26C22P1-84 | 283 | A26L-22-00-84 | 322 | B | A26LC22P1-84 | 409 |
| 60 | 60 | 2NO/2NC | A45-22-00-84 | 360 | B | A45C22CP1-84 | 536 | A45L-22-00-84 | 454 | C | A45LC22CP1-84 | 730 |
| 105 | 105 | 2NO/2NC | A75-22-00-84 | 525 | B | A75C22CP1-84 | 672 | A75L-22-00-84 | 619 | C | A75LC22CP1-84 | 866 |

A9 - A300

Electrically & mechanically held

Coil voltage selection

All catalog numbers include a 120VAC coil. To select other coil voltages, substitute the code from the Coil Voltage Selection Chart for the two digits after the last dash in the catalog number.

Ex.: A 240V coil is required for an A75 contactor: A75-30-00-80

Coil voltage selection

| Hz | Cntr Type | Volts | | | | | | | | | | | | | | | |
|----|--------------|-------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 12 | 24 | 48 | 110 | 120 | 125 | 208 | 220 | 240 | 277 | 380 | 415 | 440 | 480 | 500 | 600 |
| 60 | A | | 81 | 83 | 84 | 84 | | 34 | 36 | 80 | 42 | | 86 | 86 | 51 | 53 | 55 |
| 50 | A | | 81 | 83 | 84 | | | | | 80 | | | 85 | 86 | | | 55 |

For other voltages, consult factory

Control transformer voltage selection chart

| Hz | Type | Volts | | | |
|-------|------|---------|---------------|---------------|---------------|
| | | 208/120 | 230 - 240/120 | 460 - 480/120 | 575 - 600/120 |
| 50/60 | A | 0 | 7 | 8 | 9 |

For other voltages, consult factory

Control transformer option

| Contactor size | VA rating | List price adder |
|----------------|-----------|------------------|
| A9 - A40 | 45 | \$ 300 |
| A9 - A40 | 50 | 360 |
| A50 - A75 | 75 | 435 |
| A95 | 100 | 560 |
| A145 | 150 | 720 |
| A210 - A300 | 250 | 795 |

Accessories Factory modifications



CAL5-11

CA5-10



WB75A-01



RV5/50

Accessories

Auxiliary contact blocks

| Mounting on contactors | Positioning | Contacts | Catalog number | List price |
|------------------------|-------------|----------|----------------|--------------|
| A 9 ... A 95 | Front face | 1 - | CA5-10 | \$ 15 |
| | | - 1 | CA5-01 | |
| A 9 ... A 40 | Front face | 3 1 | CA5-31M | 30 |
| | | 2 2 | CA5-22M | |
| | | 1 1 | CAL5-11 | |
| A 95 ... A 300 | Side | 1 1 | CAL18-11 | |
| A145... A 300 | Side | 1 1 | CAL18-11B | |

Mechanical latch

| For contactors | Voltage | Catalog number | List price |
|----------------|-------------------------|----------------|--------------|
| A 9 ... A 75 | 24 ... 28 V a.c./d.c. | WB75A-01 | \$ 84 |
| | 48 ... 55 V a.c./d.c. | WB75A-03 | |
| | 110 ... 127V a.c./d.c. | WB75A-04 | |
| | 230 ... 277 V a.c./d.c. | WB75A-05 | |
| | 380 ... 440 V a.c./d.c. | WB75A-07 | |
| | 440 ... 480 V a.c./d.c. | WB75A-08 | |

Surge suppressor, varistor

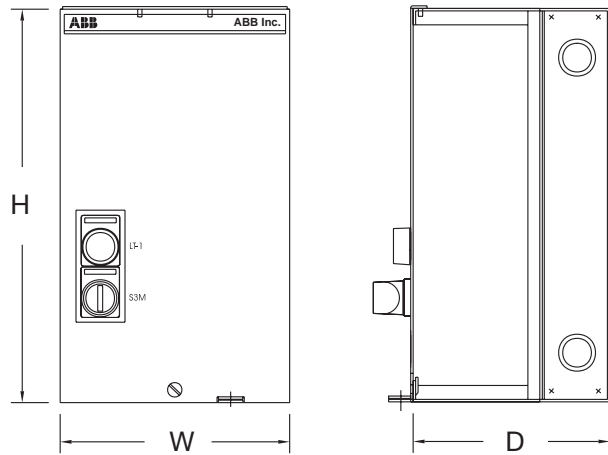
| For contactors | Voltage range | Catalog number | List price |
|----------------|-------------------------|----------------|--------------|
| A 9 ... A 110 | 24 ... 50 V a.c./d.c. | RV5/50 | \$ 30 |
| | 50 ... 133 V a.c./d.c. | RV5/133 | |
| | 110 ... 250 V a.c./d.c. | RV5/250 | |
| | 250 ... 440 V a.c./d.c. | RV5/440 | |

Factory modifications for enclosed contactors

Pilot devices

| Description | Suffix code | List price |
|--|-------------|--------------|
| Selector - 2 position maintained OFF - ON | C | \$ 72 |
| Selector - 3 position maintained HAND OFF - AUTO | D | 72 |
| Pilot light - ON (green) | R | 135 |

Approximate dimensions



Enclosure dimensions (in)

| Type | H | W | D |
|------|----|----|---|
| A | 11 | 6 | 5 |
| B | 13 | 9 | 7 |
| C | 14 | 12 | 8 |
| D | 24 | 12 | 8 |
| E | 30 | 24 | 9 |