

# Power circuit coupling LOR couplers



## Description

LOR couplers are built without blowout coil and arc chutes. They are not suitable for breaking on-load at voltages above 24 V AC or DC.

- AC switching up to 1000 V AC
- DC switching up to:
  - 1000 V DC for R85 ... R550
  - 1500 V DC for R800 ... R5100

For other voltages, please consult us.

2 NO + 2 NC auxiliary contacts are fitted as standard. For additional auxiliary contact, refer to "Auxiliary contact fitting details".

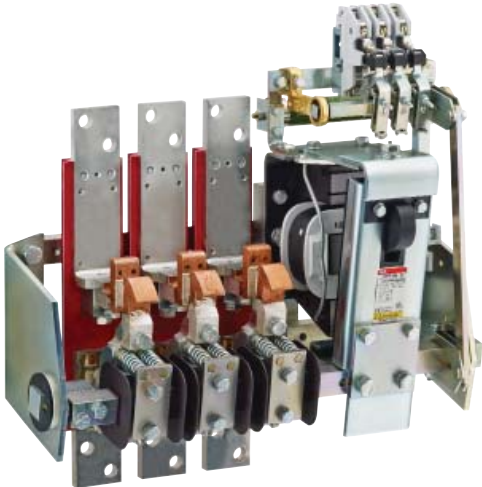
## Example of use

- Automatic short-circuiting of the starting resistances of a slip-ring or DC motors without the possibility of opening on-load
- Electrolytic installations and electro-plating plants
- Induction furnaces (please consult us).

## Other variants:

Please consult us for:

- LOR couplers with N.C. poles
- LOR..AMA and LOR..AME couplers with latching.



# LORR couplers

## Power circuit up to 1000 V AC or 1500 V DC

## Control circuit 120V 50/60 Hz



LORR550-20

### Description

LORR are used for controlling:

- AC power circuits up to 1000 V AC
- DC power circuits up to:
  - 1000 V DC for ratings 85...550 A
  - 1500 V DC for ratings 800...5100 A

**They are not suitable for breaking on-load at voltages above 24 V AC or DC.**

These contactors are designed with:

- variable number of poles according to the application
- control circuit: AC operated
- 2 NO + 2 NC auxiliary contacts available, as standard.

### Ordering details

| Conventional<br>thermal current<br>I <sub>th</sub> (θ ≤ 40 °C) | Rated<br>operational voltage |          | Number<br>of poles<br> | Rated control circuit voltage<br>U <sub>c</sub><br>(1)<br>V 50/60 Hz | Auxiliary<br>contacts<br>fitted (2)<br> | Type        | Order code      | Weight<br><br>pkg<br>(1 pce)<br><br>kg |
|----------------------------------------------------------------|------------------------------|----------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|----------------------------------------|
|                                                                | V AC                         | V DC (3) |                                                                                                         |                                                                      |                                                                                                                           |             |                 |                                        |
| 90                                                             | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR85-10   | FPL7235110R2113 | 2.6                                    |
|                                                                |                              |          | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR85-20   | FPL7235210R2113 | 3                                      |
|                                                                |                              |          | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR85-30   | FPL7235310R2113 | 3.4                                    |
|                                                                |                              |          | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR85-40   | FPL7235410R2113 | 3.8                                    |
| 185                                                            | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR170-10  | FPL7535110R2113 | 3.2                                    |
|                                                                |                              |          | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR170-20  | FPL7535210R2113 | 4.1                                    |
|                                                                |                              |          | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR170-30  | FPL7535310R2113 | 5                                      |
|                                                                |                              |          | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR170-40  | FPL7535410R2113 | 5.9                                    |
| 300                                                            | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR260-10  | FPL7835110R2113 | 4.7                                    |
|                                                                |                              |          | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR260-20  | FPL7835210R2113 | 5.9                                    |
|                                                                |                              |          | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR260-30  | FPL7835310R2113 | 7.1                                    |
|                                                                |                              |          | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR260-40  | FPL7835410R2113 | 8.3                                    |
| 420                                                            | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR400-10  | FPL9435110R2113 | 11.4                                   |
|                                                                |                              |          | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR400-20  | FPL9435210R2113 | 14.7                                   |
|                                                                |                              |          | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR400-30  | FPL9435310R2113 | 18                                     |
|                                                                |                              |          | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR400-40  | FPL9435410R2113 | 21.3                                   |
| 630                                                            | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR550-10  | FPL8435110R2113 | 11.4                                   |
|                                                                |                              |          | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR550-20  | FPL8435210R2113 | 14.7                                   |
|                                                                |                              |          | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR550-30  | FPL8435310R2113 | 18                                     |
|                                                                |                              |          | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR550-40  | FPL8435410R2113 | 21.3                                   |
| 1100                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR800-10  | FPL8635110R2113 | 29                                     |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR800-20  | FPL8635210R2113 | 34                                     |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR800-30  | FPL8635310R2113 | 42                                     |
|                                                                |                              | 1500     | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR800-40  | FPL8635410R2113 | 54                                     |
| 1400                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR1400-10 | FPL6135110R2113 | 30                                     |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR1400-20 | FPL6135210R2113 | 36                                     |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR1400-30 | FPL6135310R2113 | 44                                     |
|                                                                |                              | 1500     | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR1400-40 | FPL6135410R2113 | 56                                     |
| 1700                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR1700-10 | FPL6235110R2113 | 34                                     |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR1700-20 | FPL6235210R2113 | 42                                     |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR1700-30 | FPL6235310R2113 | 50                                     |
|                                                                |                              | 1500     | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR1700-40 | FPL6235410R2113 | 66                                     |
| 2100                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR2100-10 | FPL6335110R2113 | 36                                     |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR2100-20 | FPL6335210R2113 | 44                                     |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR2100-30 | FPL6335310R2113 | 52                                     |
|                                                                |                              | 1500     | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR2100-40 | FPL6335410R2113 | 68                                     |
| 2500                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR2500-10 | FPL6735110R2113 | On request                             |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR2500-20 | FPL6735210R2113 |                                        |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR2500-30 | FPL6735310R2113 |                                        |
|                                                                |                              | 1500     | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR2500-40 | FPL6735410R2113 |                                        |
| 3200                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR3200-10 | FPL6535110R2113 | On request                             |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR3200-20 | FPL6535210R2113 |                                        |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR3200-30 | FPL6535310R2113 |                                        |
|                                                                |                              | 1500     | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR3200-40 | FPL6535001R2113 |                                        |
| 3800                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR3800-10 | FPL6635110R2113 | On request                             |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR3800-20 | FPL6635210R2113 |                                        |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR3800-30 | FPL6635002R2113 |                                        |
|                                                                |                              | 1500     | 4                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR3800-40 | FPL6635003R2113 |                                        |
| 4500                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR4500-10 | FPL6835110R2113 | On request                             |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR4500-20 | FPL6835210R2113 |                                        |
|                                                                |                              | 1500     | 3                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR4500-30 | FPL6835001R2113 |                                        |
| 5100                                                           | 1000                         | 1000     | 1                                                                                                       | 120V                                                                 | 2 2                                                                                                                       | LORR5100-10 | FPL6935110R2113 | On request                             |
|                                                                |                              | 1500     | 2                                                                                                       |                                                                      | 2 2                                                                                                                       | LORR5100-20 | FPL6935001R2113 |                                        |

(1) Other control voltages, please consult us.

(2) Other auxiliary contact arrangements, please consult us.

(3) Please consult us for power circuit above 1000 V AC or 1500 V DC.