



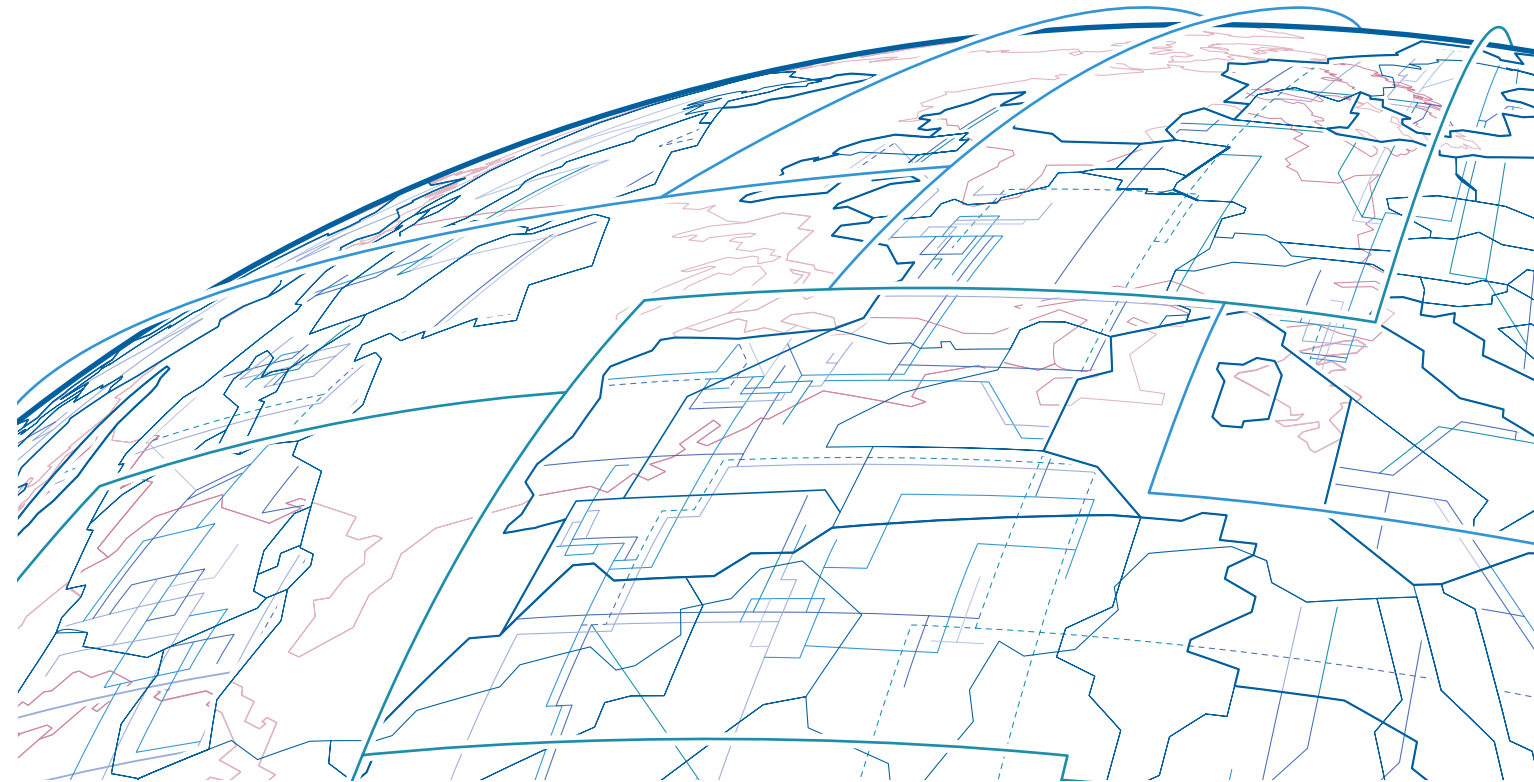
US Panorama

R contactor range

Engineered to perform

A complete solution Backed by ABB's global support

ABB is a \$42 billion global company, focused on innovation and eco-friendliness. The ABB Group of companies operates in over 100 countries with 150,000 employees worldwide.



R contactors Engineered to perform in heavy duty applications

With over 100 years of experience in control, ABB meets AC and DC requirements from 63 A up to 5000 A with R contactor range.

We offer our application know-how through the R contactor range to perfectly match your utilization requirements, whatever the usage condition and the required configuration. Robustness and reliability bring R contactors technology beyond the limits of other contactors.

Secure Operation Reliability

- High making and breaking capacity
- Durability up to 5 million electrical operations
- Easy inspection access and availability of spare parts
- Experienced and proven for years

Improved Installation Efficiency

- Variable number of poles
- NO, NC or combined main poles configuration
- Main pole for On-load breaking or for coupling
- Magnetic or mechanical latch available

Increased Application Productivity

- Rated current up to 5000 A
- Rated voltage up to 1000 V AC or 1500 V DC
- IEC AC-1, AC-3, DC-1, DC-3 and DC-5 utilization categories.
- UL general use rated 800 - 2000A at 600VDC
- Mechanical switching frequency up to 1200 cycles per hour

... you can trust

From standard to tailor-made solutions

- Most commonly used configurations are presented in the R contactor catalog and are well documented
- 120V 60Hz coil and 2 NO + 2 NC auxiliary contacts as standard
- Other configurations and ratings are available on request

Engineered to perform in wide variety of applications



Industries

- Iron and steel industries
- Mining
- Cranes
- Induction furnaces



Power generation

- Hydroelectric power stations
- Photovoltaic power plants
- Power distribution
- Energy storage



Infrastructure

- Power panels
- Pump station
- Rail transportation

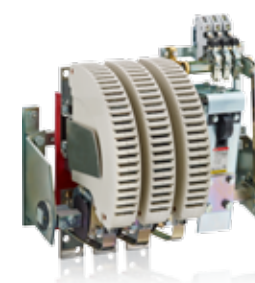
R contactors

Get the right product

Conventional applications

AC circuit switching

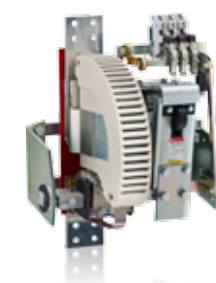
Up to 500 V AC
IOR contactors



AC-1 Rated operational current up to 5000 A
AC-3 Rated power up to 1500 kW (1520 A - 440 V)

DC circuit switching

Up to 1500 V DC with poles in series
IOR..CC contactors



DC-1 Rated operational current up to 5000 A
DC-3 / DC-5 operational current up to 2000 A

Advanced applications

N.O./N.C. main poles combination

AC circuit switching
NOR..MT contactors



Power circuit coupling

Up to 1000 V AC / 1500 V DC
LOR couplers



Slip-ring motor control

Up to 5000 V AC
FOR contactors



Energy saving and safety requirements

Equipped with latching
..AMA, ..AME contactor types



Power circuit coupling

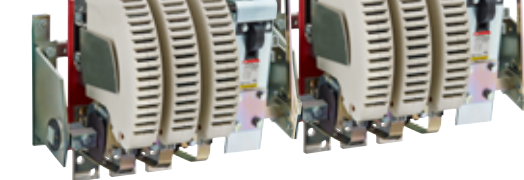
Umax 2250 V DC
AM-CC-JORE contactors



R contactors for AC circuit switching

Rated operational voltage

U_e from 500 up to **1000 V AC**



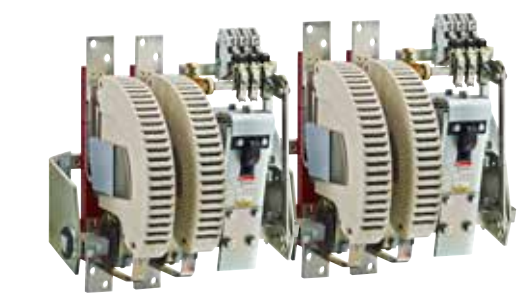
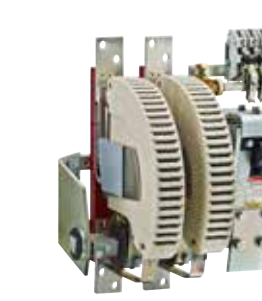
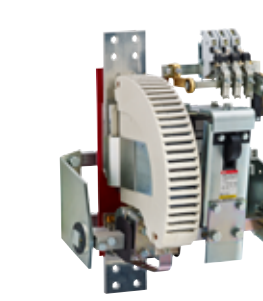
Contactor type*		IORR63..MT	IORR125..MT	IORR200..MT	IORR400..MT	IORR500..MT	IORR800..MT	IORR1400..MT	IORR1700..MT	IORR2100..MT	IORR2500..MT	IORR3200..MT	IORR3800..MT	IORR4500..MT	IORR5100..MT
	U _e														
AC-1	at 40°C	le 85 A	170 A	260 A	400 A	550 A	800 A	1250 A	1650 A	1850 A	2200 A	3000 A	3500 A	4000 A	4500 A
		le 85 A	160 A	260 A	400 A	550 A	800 A	970 A	1170 A	1270 A	-	-	-	-	-
AC-3	690 V AC	le 56 A	105 A	180 A	280 A	380 A	580 A	610 A	680 A	810 A	-	-	-	-	-
	1000 V AC max.	le 56 A	105 A	180 A	280 A	380 A	580 A	610 A	680 A	810 A	-	-	-	-	-
AC-3	690 V AC	Power 80 kW	150 kW	240 kW	400 kW	540 kW	780 kW	1000 kW	1200 kW	1300 kW	-	-	-	-	-

*120 V 60Hz coil and 2 N.O. + 2 N.C. auxiliary contacts as standard

R contactors for DC circuit switching

Rated operational voltage

U_e up to **1500 V DC**



Contactor type*		IORR63..CC	IORR125..CC	IORR200..CC	IORR400..CC	IORR500..CC
	U _e					
1 pole	General Use	600 V DC	le -	-	-	-
	DC-1	500 V DC	le 85 A	170 A	275 A	400 A
1 pole	DC-3 / DC-5	500 V DC	le 68 A	125 A	205 A	350 A
	DC-1	1000 V DC	le 85 A	170 A	275 A	400 A
2 poles	DC-3 / DC-5	1000 V DC	le 68 A	125 A	205 A	350 A
	DC-1	1500 V DC	le 85 A	170 A	275 A	400 A
3 poles	DC-3 / DC-5	1500 V DC	le 68 A	125 A	205 A	350 A
	DC-1	1500 V DC	le 85 A	170 A	275 A	400 A

*120 V 60Hz coil and 2 N.O. + 2 N.C. auxiliary contacts as standard

U _e	IORR800..CC	IORR1000..CC	IORR1400..CC	IORR1700..CC	IORR2100..CC	IORR2500..CC	IORR3200..CC	IORR3800..CC	IORR4500..CC	IORR5100..CC
600 V DC	800 A	1000 A	1300 A	1700 A	2000 A	-	-	-	-	-
750 V DC	800 A	1000 A	1250 A	1600 A	2000 A	2300 A	3200 A	3800 A	4500 A	5000 A
600 V DC	720 A	1000 A	1250 A	1600 A	2000 A	On request	On request	On request	On request	On request
1500 V DC	800 A	1000 A	1250 A	1600 A	2000 A	2300 A	3200 A	3800 A	4500 A	5000 A
1000 V DC	720 A	1000 A	1250 A	1600 A	2000 A	On request	On request	On request	On request	On request
1500 V DC	800 A	1000 A	1250 A	1600 A	2000 A	2300 A	3200 A	3800 A	4500 A	5000 A
1500 V DC	720 A	1000 A	1250 A	1600 A	2000 A	On request	On request	On request	On request	On request

Contact us

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R contactors



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