

Advantages

→ Contactors RD series are universal power supply AC/DC with built-in varistor surge protection. RD contactors produce less noise (DC coil inside)



→ Special terminals provide reliable connection with cables.



→ Spring-loaded latch ensures reliable mounting on DIN rail TH 35

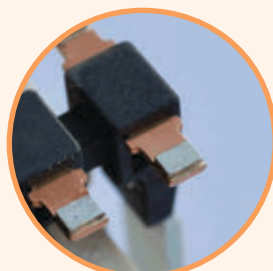


→ Contactors series R-R have operating mode switch:
 - Automatic mode (normal operation with control circuit-coil)
 - Manual mode (0 - permanently open, I - constantly closed).

In manual mode constantly close operation I presence of voltage on control circuit-coil returns contactor in automatic mode operation.



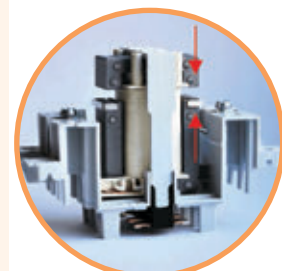
→ Contact status can be monitored visually or remote by auxiliary contacts



→ Silver contacts provide the best conductivity and lowest contact resistance



→ Spring loaded contacts to reduce bouncing effect and prolong contact life time



→ Specially designed mechanism consisting of two movable cores significantly reduces the noise level at switching

Modular contactors for installation into distribution boards - type R

2 pole, 2 modules (35 mm), 63 A(AC1, 400 V)

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
R 63-20 230V	002463482		240	6/60
R 63-20 24V	002463483		240	6/60
R 63-11 230V	002463484		240	6/60
R 63-11 24V	002463485		240	6/60

4 pole, 3 modules (52,5mm), 63 A(AC1, 400 V)

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
R 63-40 230 V	002463450		360	4
R 63-40 24 V	002463451		360	4
R 63-31 230 V	002463460		360	4
R 63-31 24 V	002463461		360	4
R 63-22 230 V	002463470		360	4
R 63-22 24 V	002463471		360	4
R 63-04 230 V	002463480		360	4
R 63-04 24 V	002463481		360	4

Auxiliary contactor block for contactors R25, R40, R63 (max. 1 piece)

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
RH 11	002461101		26	3

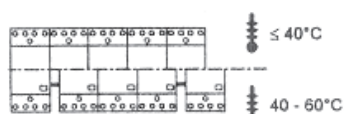
Sealing cover

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
P721	002461110	R 25	2	10
P690	002461120	R 40..., R 63...	3	10

Distance piece

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
P730	002461130	R20-R63	12	10

Distance piece



Distance piece is used where ambient temperature is higher than 40°C. Piece width is 1/2 module (8,8 mm)

Max 3 contactors can be side by side - use of distance piece is highly recommended.



Modular contactor for installation into distribution boards

Data according to IEC 947-4-1, IEC 947-5-1, VDE 0660, EN 60947-4-1, EN 60947-5-1								
Type			R20	R25 (2p)	R25 (4p)	R40	R63	RH11
Main Contacts								
Rated insulation voltage U_i	V AC		440 ²⁾	440 ²⁾	440 ²⁾	440 ²⁾	440 ²⁾	440 ²⁾
Rated operation voltage U_e	V AC		250	440	440	440	440	440
Frequency of operations with AC1, AC3	1/h		300	300	300	600	600	600
Mechanical life	$S \times 10^6$		1	1	1	1	1	1
Utilization category AC1								
Rated operational current $I_e (=I_{th})$	open at 60°C	A	20	25	25	40	60	-
Contact life		$S \times 10^6$	0,1	0,1	0,1	0,1	0,1	-
Minimum switch voltage		V/mA	24/100	24/100	24/100	24/100	24/100	17/5
Short time current	10s-current	A	72	72	72	216	240	-
Power loss per pole at $I_e/AC1$		W	2	3	2	3	7	0,5
Utilization category AC3								
Switching of three-phase motors								
Rated operational current I_e		A	-	-	9	27	30	-
Rated operational power of three-phase motors 50-60Hz	220V	kW	-	-	2,2	7,5	8	-
	230-240V	kW	1,1 ⁴⁾	-	2,5	8	8,5	-
	380-415V	kW	-	-	4	12,5	15	-
Contact life AC 3		$S \times 10^6$	-	-	0,15	0,15	0,15	-
Power consumption of coils								
AC operated	inrush sealed	VA	7-9	7-9	14-18	33-45	33-45	-
		VA	2,2-4,2	2,2-4,2	4,4-8,4	7	7	-
		W	0,8-1,6	0,8-1,6	1,6-3,2	2,6	2,6	-
Operation range of coils in multiples of control voltage U_s	(-40...+40°C)		0,85-1,1	0,85-1,1	0,85-1,1	0,85-1,1	0,85-1,1	-
Short-circuit protection								
Coordination-type "1" according to IEC 947-4-1 max. fuse size	gG/gL	A	35	35	35	63	80	-
Cable cross-sections								
Main connector	solid or stranded	mm ²	1,5-10	1,5-10	1,5-10	2,5-25	2,5-25	0,5-2,5 ³⁾
		mm ²	1,5-6	1,5-6	1,5-6	2,5-16	2,5-16	0,5-2,5 ³⁾
	flexible with multicore cable end	mm ²	1,5-6	1,5-6	1,5-6	2,5-16	2,5-16	0,5-1,5
Clamps per pole			1	1	1	1	1	2
Magnetic coil	solid or stranded	mm ²	0,75-2,5	0,75-2,5	0,75-2,5	0,75-2,5	0,75-2,5	-
		mm ²	0,5-2,5	0,5-2,5	0,5-2,5	0,5-2,5	0,5-2,5	-
	flexible with multicore cable end	mm ²	0,5-1,5	0,5-1,5	0,5-1,5	0,5-1,5	0,5-1,5	-
Clamps per pole			1	1	1	1	1	-
Auxiliary Contacts								
Rated insulation voltage $U_i^{1)}$	V AC		-	-	-	-	-	440 ²⁾
Thermal rated current I_{th}	40°C	[A]	-	-	-	-	-	10
Ambient temperature	60°C	[A]	-	-	-	-	-	6
Utilization category AC 15								
Rated operational current I_e	220-240V	[A]	-	-	-	-	-	3
	380-415V	[A]	-	-	-	-	-	2
	440V	[A]	-	-	-	-	-	1,6
Utilization category DC13								
Rated operational current I_e per pole	24-60V	[A]	-	-	-	-	-	2
	110V	[A]	-	-	-	-	-	0,4
	220V	[A]	-	-	-	-	-	0,1
Short circuit protection								
short-circuit current 1kA, contact welding not accepted max. fuse size	gG/gL	[A]	-	-	-	-	-	10
Switching time at control voltage $U_c \pm 10\%$								
	make time	ms	7-16	7-16	9-15	11-15	11-15	-
	release time		6-12	6-12	4-8	6-13	6-13	-
	arc duration		10-15	10-15	10-15	10-15	10-15	-

1) Suitable for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): U_{imp} 8kV.
2) Suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry): U_{imp} 4kV.
3) Maximum cable cross-section with prepared conductor.
4) AC5b motor 2-pole 230 V 1,1 kW.