

# Modular Contactors R40..., R63..

## 2-pole - 40A or 63A

- 40A or 63A (AC1)
- High power ratings, compact size, 2 modules (35mm)
- Climate resistant, ambient temperature: -40°C..+60°C
- Switching indicator

### 2-pole

Rated current AC1 A	Heating Power		Motor	Type	Pack pcs.
	230V 1~ kW	400V 3~ kW	AC3 400V 3~ kW	NO NC coil V AC	
40	9	-	-	R40-20 24	6
40	9	-	-	R40-20 230	6
63	14,3	-	-	R63-20 24	6
63	14,3	-	-	R63-20 230	6



### Ratings

Incandescent lamp  
Fluorescent lamp  
Fluorescent lamp (dual-connection)  
Fluorescent lamp (parallel compensated)

	R40	R63
Incandescent lamp	25A / 5700W	35A / 8000W
Fluorescent lamp	32A / 3400W	52A / 5500W
Fluorescent lamp (dual-connection)	34A / 6300W	54A / 10000W
Fluorescent lamp (parallel compensated)	16A / 3100W	25A / 5100W

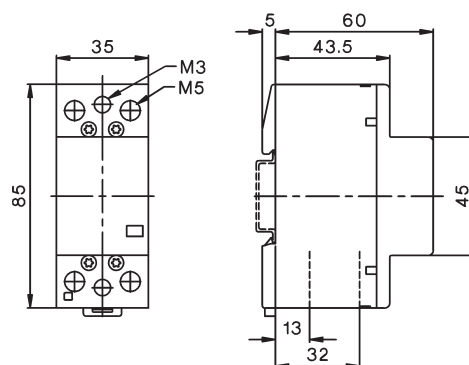
### Power consumption of coil

AC operated	inrush sealed	VA VA W	20 - 25 4 - 6 1,5 - 2,5
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### Cable cross section

Main connector	solid or stranded flexible Clamps per pole	mm <sup>2</sup> mm <sup>2</sup> 1	2,5 - 25 2,5 - 16 1
Magnetic coil	solid or stranded flexible flexible with multicore cable end Clamps per pole	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> 1	0,75 - 2,5 0,5 - 2,5 0,5 - 1,5 1

### Dimensions



Technical data are subject to change without notice

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**BENEDIKT**  
GMBH



Modular Contactors

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# Modular Contactors

Rated Current	Heating Power AC1 at		Type	coil voltage	Pack pcs.	Weight kg/pc.	Wiring Diagram
	1-phase	3-phase					
<b>AC1 400V A</b>	230V kW	400V kW	<b>24</b> <b>230</b> <b>24VM</b> <b>230VM</b> ↓	24V 50/60Hz 220-240V 50Hz, 230-264V 60Hz 24V 50/60Hz, 24V DC 220-240V 50/60Hz, 220V DC			

## One-pole 1 module (17,5mm), AC-operated (low noise)



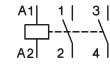
<b>20</b>	4,6	-	<b>R20-10 24</b>	12	0,12
<b>20</b>	4,6	-	<b>R20-10 230</b>	12	0,12



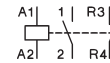
## Two-pole 1 module (17,5mm), AC-operated (low noise)



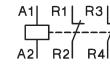
<b>20</b>	4,6	-	<b>R20-20 24</b>	12	0,12
<b>20</b>	4,6	-	<b>R20-20 230</b>	12	0,12



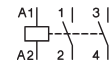
<b>20</b>	4,6	-	<b>R20-11 24</b>	12	0,12
<b>20</b>	4,6	-	<b>R20-11 230</b>	12	0,12



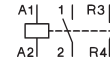
<b>20</b>	4,6	-	<b>R20-02 24</b>	12	0,12
<b>20</b>	4,6	-	<b>R20-02 230</b>	12	0,12



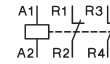
<b>25</b>	5,5	-	<b>R25-20 24</b>	12	0,14
<b>25</b>	5,5	-	<b>R25-20 230</b>	12	0,14



<b>25</b>	5,5	-	<b>R25-11 24</b>	12	0,14
<b>25</b>	5,5	-	<b>R25-11 230</b>	12	0,14



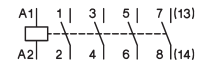
<b>25</b>	5,5	-	<b>R25-02 24</b>	12	0,14
<b>25</b>	5,5	-	<b>R25-02 230</b>	12	0,14



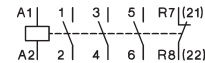
## Four-pole 2 modules (35mm) <sup>1)</sup>, AC-operated (low noise)



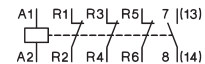
<b>25</b>	5,7	17	<b>R25-40 24</b>	6	0,21
<b>25</b>	5,7	17	<b>R25-40 230</b>	6	0,21



<b>25</b>	5,7	17	<b>R25-31 24</b>	6	0,21
<b>25</b>	5,7	17	<b>R25-31 230</b>	6	0,21



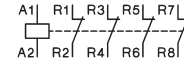
<b>25</b>	5,7	17	<b>R25-13 24</b>	6	0,21
<b>25</b>	5,7	17	<b>R25-13 230</b>	6	0,21



<b>25</b>	5,7	-	<b>R25-22 24</b>	6	0,21
<b>25</b>	5,7	-	<b>R25-22 230</b>	6	0,21



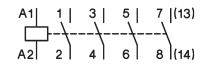
<b>25</b>	5,7	17	<b>R25-04 24</b>	6	0,21
<b>25</b>	5,7	17	<b>R25-04 230</b>	6	0,21



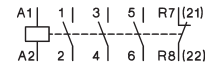
## Four-pole 2 modules(35mm), AC/DC-operated <sup>1)</sup>, (hum free)



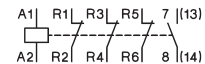
<b>25</b>	5,7	17	<b>R25-40 24VM</b>	6	0,22
<b>25</b>	5,7	17	<b>R25-40 230VM</b>	6	0,22



<b>25</b>	5,7	17	<b>R25-31 24VM</b>	6	0,22
<b>25</b>	5,7	17	<b>R25-31 230VM</b>	6	0,22



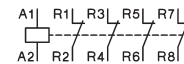
<b>25</b>	5,7	17	<b>R25-13 24VM</b>	6	0,22
<b>25</b>	5,7	17	<b>R25-13 230VM</b>	6	0,22



<b>25</b>	5,7	-	<b>R25-22 24VM</b>	6	0,22
<b>25</b>	5,7	-	<b>R25-22 230VM</b>	6	0,22



<b>25</b>	5,7	17	<b>R25-04 24VM</b>	6	0,22
<b>25</b>	5,7	17	<b>R25-04 230VM</b>	6	0,22



1) Sealable with Sealing Cover P721, available aux. contact block RH11(see page 135)  
2) Sealable with Sealing Cover P721, available aux. contact block RH11-1(see page 135)

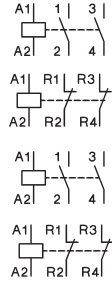
# Modular Contactors

<b>Rated Current</b>	Heating Power AC1 at	<b>Type</b>	coil voltage	
<b>400V</b>	1-phase 3-phase	<b>24</b>	24V 50/60Hz	
<b>A</b>	230V 400V	<b>230</b>	220-240V 50Hz, 230-264V 60Hz	
	kW kW	↓	Pack pcs.	Weight kg/pc.



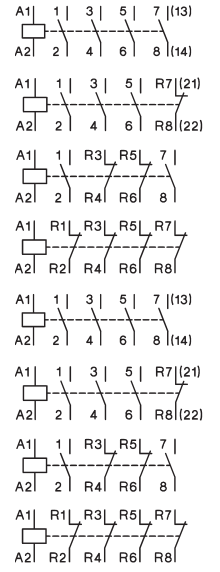
## Two-pole 2 modules (35mm), AC-operated (low noise)

<b>40</b>	9	-	<b>R40-20 24</b>	6	0,23
<b>40</b>	9	-	<b>R40-20 230</b>	6	0,23
<b>40</b>	9	-	<b>R40-02 24</b>	6	0,23
<b>40</b>	9	-	<b>R40-02 230</b>	6	0,23
<b>63</b>	14,3	-	<b>R63-20 24</b>	6	0,23
<b>63</b>	14,3	-	<b>R63-20 230</b>	6	0,23
<b>63</b>	14,3	-	<b>R63-02 24</b>	6	0,23
<b>63</b>	14,3	-	<b>R63-02 230</b>	6	0,23



## Four-pole 3 modules (52,5mm)<sup>1)</sup>, AC-operated (low noise)

<b>40</b>	9	27,5	<b>R40-40 24</b>	4	0,35
<b>40</b>	9	27,5	<b>R40-40 230</b>	4	0,35
<b>40</b>	9	27,5	<b>R40-31 24</b>	4	0,35
<b>40</b>	9	27,5	<b>R40-31 230</b>	4	0,35
<b>40</b>	9	-	<b>R40-22 24</b>	4	0,35
<b>40</b>	9	-	<b>R40-22 230</b>	4	0,35
<b>40</b>	9	27,5	<b>R40-04 24</b>	4	0,35
<b>40</b>	9	27,5	<b>R40-04 230</b>	4	0,35
<b>63</b>	14,3	43	<b>R63-40 24</b>	4	0,36
<b>63</b>	14,3	43	<b>R63-40 230</b>	4	0,36
<b>63</b>	14,3	43	<b>R63-31 24</b>	4	0,36
<b>63</b>	14,3	43	<b>R63-31 230</b>	4	0,36
<b>63</b>	14,3	-	<b>R63-22 24</b>	4	0,36
<b>63</b>	14,3	-	<b>R63-22 230</b>	4	0,36
<b>63</b>	14,3	43	<b>R63-04 24</b>	4	0,36
<b>63</b>	14,3	43	<b>R63-04 230</b>	4	0,36



## Auxiliary Contact Block 1/2 module (8,8mm) for contactor R25, R40, R63 (4p.) max. 1 piece for contactor R40 and R63 (2p.) max. 1 piece



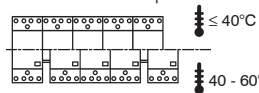
<b>Rated current</b>	AC15 AC1	<b>Type</b>	Pack pcs.	Weight kg/pc.	<b>Wiring Diagram</b>
<b>230V</b>	400V 400V				
<b>A</b>	A A	for contactor			
<b>3</b>	2 10	R25 <sup>2)</sup> , R40, R63	<b>RH11</b>	3	0,026
<b>3</b>	2 10	R25-..VM	<b>RH11-1</b>	3	0,026



## Accessories



<b>RC-unit</b>	2x for R20.. to R63.. for 12V to 250V AC 220nF / 100 Ohm not for R25-..VM	<b>RC-R 230</b>	2	0,05
<b>Spacing piece</b>	1/2 module (8,8mm) for R20.. to R63.. for ambient temperature >40°C	<b>P730</b>	10	0,012
<b>Sealing cover</b>	for R25.. (4p.)	<b>P721</b>	10	0,002
<b>Sealing cover</b>	for R40-.., R63-..	<b>P690</b>	10	0,003



1) Sealable with Sealing Cover P690, available aux. contact block RH11  
2) AC-operated R25-.., 4-pole

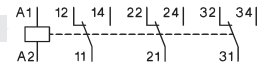
## Day-Night Reloading Contactors

Type	Pack pcs.	Weight kg/pc.	Wiring Diagram
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**Compact Module, for separate tariff counters** 2 modules (35mm), AC-operated (low noise)



**3-pole 400V 25A** **R25-TN 230** 1 0,22



2 Switch positions:

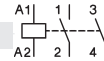
**Day** (Reloading, contact 11-14 ... closed, remains in position Night, until the next occurs)

**Night** (Basis operation) contact 11-12 ... closed

**Contactor Module, for double tariff counters** 1 module (17,5mm), AC-operated (low noise)



**2-pole 400V 25A** **R25-TN20 230** 1 0,13



4 Switch position:

**Day** (Reloading, contact 1-2 ... closed, remains in position Night, until the next occurs)

**Night** (automatic operation, contact 1-2 ... only at night closed)

**On** (Permanently On)

**Off** (permanently Off)

**Switch Module** 1 module (17,5mm)



**2-pole 400V 25A** **RH25-20** 1 0,13



## Modular Contactors

### Switching of lamps

Lamp Type	Power W	Current A	Capacitors $\mu\text{F}$	Max. lamps per pole at 230V 50Hz and max. 60°C			
				R20..	R25..	R40..	R63..
<b>Incandescent lamps</b>	60	0,27	-	36	50	92	129
	100	0,45	-	21	30	55	77
	200	0,91	-	10	15	27	38
	300	1,36	-	7	10	19	26
	500	2,27	-	4	6	11	16
	1000	4,5	-	2	3	6	8
<b>Fluorescent lamps</b> uncompensated or serial compensated	11	0,16	1,3	60	75	210	310
	18	0,37	2,7	25	30	90	140
	24	0,35	2,5	25	30	90	140
	36	0,43	3,4	20	25	70	140
	58	0,67	5,3	14	17	45	70
	65	0,67	5,3	13	16	40	65
<b>Fluorescent lamps</b> dual-connection	11	0,07	-	2 x 100	2 x 110	2 x 220	2 x 250
	18	0,11	-	2 x 50	2 x 55	2 x 130	2 x 200
	24	0,14	-	2 x 40	2 x 44	2 x 110	2 x 160
	36	0,22	-	2 x 30	2 x 33	2 x 70	2 x 100
	58	0,35	-	2 x 20	2 x 22	2 x 45	2 x 70
	65	0,35	-	2 x 15	2 x 16	2 x 40	2 x 60
<b>Fluorescent lamps</b> parallel compensated	11	0,09	2	33	43	67	107
	18	0,13	2	25	32	50	80
	24	0,16	3	25	32	50	80
	36	0,27	4	22	32	50	80
	58	0,45	7	14	18	36	46
	65	0,5	7	14	18	36	46
85	0,6	8	12	16	33	44	

# Modular Contactors

## Switching of lamps

Lamp Type	Power W	Current A	Capacitors μF	Max. lamps per pole at 230V 50Hz and max. 60°C				
				R20..	R25..	R40..	R63..	
<b>Fluorescent lamps</b> with electronic fluorescent lamp ballast	18	0,09	-	40	40	100	150	
	36	0,16	-	20	20	52	75	
	58	0,25	-	15	15	30	55	
	80	0,4	-	7	10	20	30	
	2 x 18	0,17	-	20	20	50	60	
	2 x 28	0,25	-	15	15	37	45	
	2 x 36	0,32	-	10	10	25	30	
	2 x 58	0,49	-	7	7	15	20	
2 x 80	0,7	-	4	4	8	10		
<b>Transformers for metal halid low voltage lamps</b>	20	0,09	-	40	52	110	174	
	50	0,22	-	20	24	50	80	
	75	0,33	-	13	16	35	54	
	100	0,43	-	10	12	27	43	
	150	0,65	-	7	9	19	29	
	200	0,87	-	5	5	14	23	
300	1,3	-	3	4	9	14		
<b>Mercury-vapour lamps</b> (high-pressure lamps), uncompensated e. g. HQL, HPL	50	0,61	-	16	21	38	55	
	80	0,8	-	12	16	29	40	
	125	1,15	-	8	11	20	28	
	250	2,15	-	4	6	11	15	
	400	3,25	-	3	4	7	10	
	700	5,4	-	1	2	4	6	
	1000	7,5	-	1	1	3	4	
<b>Mercury-vapour lamps</b> (high-pressure lamps), compensated e. g. HQL, HPL	50	0,28	7	14	18	36	50	
	80	0,41	8	12	16	31	44	
	125	0,65	10	10	13	25	35	
	250	1,22	18	5	7	14	19	
	400	1,95	25	4	5	10	14	
	700	3,45	45	2	3	6	8	
	1000	4,8	60	1	2	4	6	
<b>Metal halide lamps</b> uncompensated e. g. HQI, HPI, CDM	35	0,53	-	22	24	57	65	
	70	1	-	12	14	30	35	
	150	1,8	-	6	8	17	18	
	250	3	-	4	5	10	12	
	400	3,5	-	3	4	8	10	
	1000	9,5	-	1	1	3	4	
	2000	16,5	-	-	-	2	2	
	400V per pole	2000	10,5	-	-	2	2	
	3500	18	-	-	-	1	1	
	<b>Metal halide lamps</b> compensated e. g. HQI, HPI, CDM	35	0,25	6	16	21	42	58
		70	0,45	12	8	11	21	29
		150	0,75	20	5	7	13	18
250		1,5	33	3	4	9	11	
400		2,1	35	2	4	9	10	
1000		5,8	95	1	1	3	4	
2000		11,5	148	-	-	2	2	
400V per pole		2000	6,6	58	-	-	3	4
3500		11,6	100	-	-	2	3	
<b>Metal halide lamps</b> with electronic fluorescent with electronic fluorescent lamp ballast (e. g.: PCI) 50-125 x I <sub>n lamp</sub> for 0,6ms		20	0,1	integrated	9	9	18	20
	28	0,15	integrated	-	-	-	18	
	35	0,2	integrated	6	6	11	13	
	70	0,36	integrated	5	5	10	12	
	150	0,7	integrated	4	4	8	10	
<b>Sodium-vapour lamps</b> (low pressure lamps), uncompensated	35	1,5	-	7	9	22	30	
	55	1,5	-	7	9	22	30	
	90	2,4	-	4	6	13	19	
	135	3,3	-	3	4	10	14	
	150	3,3	-	3	4	10	14	
	180	3,3	-	3	4	10	14	
	200	3,3	-	3	4	10	14	

# Modular Contactors

## Switching of lamps

Lamp Type	Power W	Current A	Capacitors μF	Max. lamps per pole at 230V 50Hz and max. 60°C			
				R20..	R25..	R40..	R63..
Sodium-vapour lamps (low pressure lamps), compensated	35	0,31	20	5	6	15	18
	55	0,42	20	5	6	15	18
	90	0,63	30	3	4	10	12
	135	0,94	45	2	3	7	8
	150	1	40	2	3	8	9
	180	1,16	40	2	3	8	9
	200	1,32	25	-	-	10	12
<b>Sodium-vapour lamps</b> (high pressure lamps), uncompensated	150	1,8	-	5	8	17	22
	250	3	-	4	5	10	13
	330	3,7	-	3	4	8	10
	400	4,7	-	2	3	6	8
1000	10,3	-	1	1	3	4	
<b>Sodium-vapour lamps</b> (high pressure lamps), compensated	150	0,83	20	5	7	20	25
	250	1,5	33	3	4	12	15
	330	2	40	2	3	10	13
	400	2,4	48	2	2	8	12
1000	6,3	106	1	1	4	6	
<b>Sodium-vapour lamps</b> (high pressure lamps) with serial electronic (e. g.: PCI) 50-125 x I <sub>nlamp</sub> for 0,6ms	20	0,1	integrated	9	9	18	20
	35	0,2	integrated	6	6	11	13
	70	0,36	integrated	5	5	10	12
	150	0,7	integrated	4	4	8	10
<b>LED-Lamps</b> consider the inrush current of the lamp ballast and the cosφ of the lamp	max. inrush current of contactor [A]			195A	233A	424A	565A
	$\frac{\text{inrush current of contactor}}{\text{inrush current of lamp/EVG}} =$			max. lamps per pole at 230V 50Hz and max. 60°C			

## Data according to IEC60 947-4-1, IEC 60947-5-1, VDE 0660-5-1

Type	2-pole				4-pole			RH11	
	R20	R25	R40	R63	R25	R40	R63		
<b>Main Contacts</b> <sup>5) 6) 7)</sup>									
<b>Rated insulation voltage U<sub>i</sub></b>	V~	<b>440<sup>2)</sup></b>	<b>440<sup>2)</sup></b>	<b>440<sup>2)</sup></b>	<b>440<sup>2)</sup></b>	<b>440<sup>2)</sup></b>	<b>440<sup>2)</sup></b>	<b>440<sup>2)</sup></b>	
Rated operation voltage U <sub>e</sub>	V~	440	440	440	440	440	440	440	
<b>Frequency of operations z</b> AC1, AC3	1/h	300	300	600	600	300	600	600	
<b>Mechanical life</b>	S x 10 <sup>6</sup>	1	1	1	1	1	1	1	
<b>Utilization category AC1 / AC7a</b> <b>Switching of resistive load</b>									
Rated operational current I <sub>e</sub> (=I <sub>th</sub> ) open at 60°C	A	20	25	40	63	25	40	63	-
<b>Contact life</b>	S x 10 <sup>6</sup>	0,1	0,1	0,1	0,1	0,1	0,1	0,1	-
<b>Minimum Switch Voltage</b>	V/mA	24/100	24/100	24/100	24/100	24/100	24/100	24/100	17/5
<b>Short time current</b> 10s-current	A	72	72	216	240	72	216	240	-
<b>Power loss</b> per pole at I <sub>e</sub> /AC1	W	2	3	3	7	2	3	7	0,5
<b>Utilization category AC2 and AC3 / AC7b</b> <b>Switching of three-phase motors</b>									
Rated operational current I <sub>e</sub>	A	-	-	-	-	9	27	30	-
Rated operational power of three-phase motors									
220V	kW	-	-	-	-	2,2	7,5	8	-
230-240V	kW	-	-	-	-	2,5	8	8,5	-
380-415V	kW	-	-	-	-	4	12,5	15	-
2-pole motors	230V kW	1,1	1,3	2,6	5	-	-	-	-
<b>Contact life</b>	S x 10 <sup>6</sup>	0,15	0,15	0,15	0,15	0,15	0,15	0,15	-
<b>Power consumption of coils</b>									
AC operated									
inrush	VA	7 - 9	7 - 9			20 - 25	33 - 45	33 - 45	-
sealed	VA	2,2 - 4,2	2,2 - 4,2	5 - 7	5 - 7	4 - 6	6 - 8	6 - 8	-
	W	0,8 - 1,6	0,8 - 1,6			1,5 - 2,5	2,6	2,6	-
AC and DC-operated	W	-	-			3 - 4	-	-	-
<b>Operation range of coils</b> in multiples of control voltage U <sub>s</sub> (-40° - +40°C)		0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	-

1) Suitable for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): U<sub>imp</sub> = 8kV.

2) Suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry): U<sub>imp</sub> = 4kV.

3) Maximum cable cross-section with prepared conductor

5) Rated frequency 50/60Hz

6) Max. occ. switching overvoltage <4kV

7) Duty cycle: 100%



# Modular Contactors

Data according to IEC60 947-4-1, IEC 60947-5-1, VDE 0660-5-1

Type	R20	R25 (2p.)	R25 (4p.)	R25-..VM	R40 (2p./4p.)	R63 (2p./4p.)	RH11		
<b>Maximum ambient temperature</b>									
Operation	open °C			-40 to + 60		40 - 60°C			
	enclosed °C			-40 to + 40		≤ 40°C			
Storage	°C			-50 to + 90					
<b>Short circuit protection</b>									
max. fuse Coordination-type "1"gL (gG)	A	35	35	35	63	80	-		
Rated short circuit current	"I <sub>sc</sub> "	3	3	3	3	3	-		
	"I <sub>q</sub> "	3	3	10	10	10	-		
<b>Switching time</b> at control voltage U <sub>s</sub> ± 10%									
make time	ms	7 - 16	7 - 16	9 - 15	17 - 24	11 - 15	11 - 15		
release time	ms	6 - 12	6 - 12	4 - 8	17 - 23	6 - 13	6 - 13		
arc duration	ms	10 - 15	10 - 15	10 - 15	10 - 15	10 - 15	10 - 15		
<b>Cable cross-sections</b>									
Main connector	solid or stranded	mm <sup>2</sup>	1,5 - 10	1,5 - 10	1,5 - 10	1,5 - 10	2,5 - 25	2,5 - 25	0,5 - 2,5 <sup>3)</sup>
	flexible	mm <sup>2</sup>	1,5 - 6	1,5 - 6	1,5 - 6	1,5 - 6	2,5 - 16	2,5 - 16	0,5 - 2,5 <sup>3)</sup>
	flexible with multicore cable end	mm <sup>2</sup>	1,5 - 6	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	1	2
Magnetic coil	solid or stranded	mm <sup>2</sup>	0,75 - 2,5	0,75 - 2,5	0,75 - 2,5	0,75 - 2,5	0,75 - 2,5	0,75 - 2,5	-
	flexible	mm <sup>2</sup>	0,5 - 2,5	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 <sup>2</sup>	0,5 - 1,5	0,5 - 2,5	0,5 - 1,5	0,5 - 1,5	0,5 - 1,5	0,5 - 1,5	-
Clamps per pole			1	1	1	1	1	1	-
<b>Auxiliary Contacts</b> <sup>5) 6) 7)</sup>									
Rated insulation voltage U <sub>i</sub> <sup>1)</sup>	V AC	-	-	440 <sup>2)</sup>	440 <sup>2)</sup>	440 <sup>2)</sup>	440 <sup>2)</sup>	440 <sup>2)</sup>	
Thermal rated current I <sub>th</sub>	40°C	A	-	25	25	40	63	10	
Ambient temperature	60°C	A	-	25	25	40	63	6	
<b>Utilization category AC15</b>									
Rated operational current I <sub>e</sub>	220-240V	A	-	-	3	3	3	3	
	380-415V	A	-	-	2	2	2	2	
	440V	A	-	-	1,6	1,6	1,6	1,6	
<b>Utilization category DC13</b>									
Rated operational current I <sub>e</sub>	24-60V	A	-	-	2	2	2	2	
	110V	A	-	-	0,4	0,4	0,4	0,4	
per pole	220V	A	-	-	0,1	0,1	0,1	0,1	
<b>Short circuit protection</b>									
short-circuit current 1kA, contact welding not accepted									
max. fuse size	gL (gG)	A	-	-	10	10	10	10	

## Data according to UL508

Main Contacts (cULus)	Type	R20	R25 (2p.)	R25 (4p.)	R40 (2p./4p.)	R63 (2p./4p.)	RH11
Rated operational current "General Use"	A	20	25	25	40	63	10
Rated operational power of three-phase motors at 60Hz (3ph)	110-120V hp	-	-	1	2	3	-
	200-208V hp	-	-	2	5	7½	-
	220-240V hp	-	-	3	7½	10	-
	265-277V hp	-	-	3	7½	10	-
Rated operational power of AC motors at 60Hz (1ph)	110-120V hp	½	½	½	1	1½	-
	200-208V hp	1	1	1	2	3	-
	220-240V hp	1½	1 ½	1½	3	5	-
	265-277V hp	1½	2	2	3	5	-
Fuses	A	40	40	40	80	80	-
Suitable for use on a capability of delivering not more than	rms	5000	5000	5000	5000	5000	-
	V	300	300	300	300	300	300
Rated operation voltage	V~	300	300	300	300	300	300
<b>Auxiliary Contacts (cULus)</b>	heavy pilot duty	AC	-	-	-	-	C300

2) Suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry): U<sub>imp</sub> = 4kV.

3) Maximum cable cross-section with prepared conductor 4) AC7b motor 2-pole 230V 1,1kW

5) Rated frequency 50/60Hz

6) Max. occ. switching overvoltage <4kV

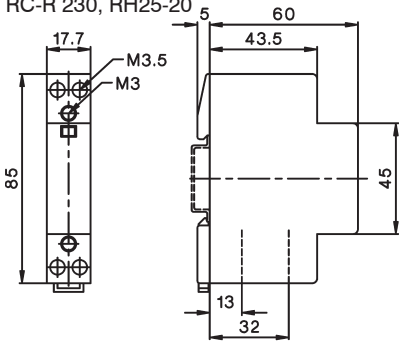
7) Duty cycle: 100%



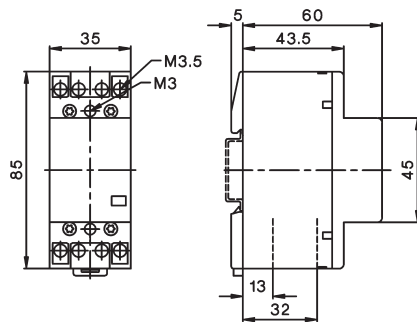
# Modular Contactors

## Dimensions

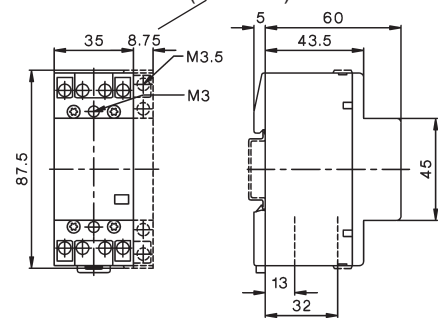
R20-..., R25-... (2-pole)  
RC-R 230, RH25-20



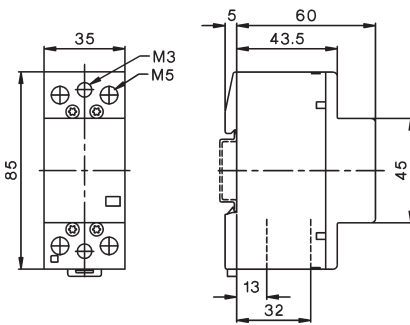
R25-TN



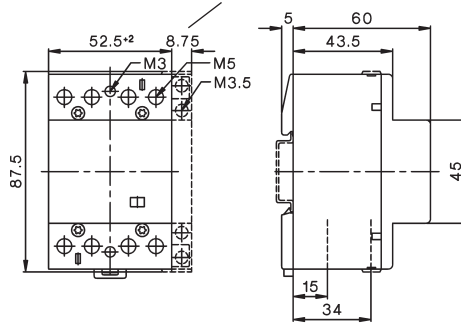
R25-... (4-pole) (+RH11)  
R25-...VM (+RH11-1)



R40-... (2-pole)  
R63-... (2-pole)



R40-... (4-pole) (+RH11)  
R63-... (4-pole) (+RH11)



Aux. contact block  
RH11, RH11-1

