

# MODULAR CONTACTOR R40-.. 4-pole, 3TE, low noise

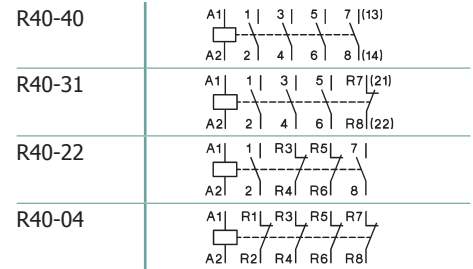
Technical Data acc. to IEC/EN60947-4-1, IEC/EN60947-5-1, VDE 0660

		Type	R40..
<b>Main Contacts</b> <sup>1) 2) 3)</sup>			
Rated insulation voltage $U_i$		V~	440 <sup>4)</sup>
Rated operation voltage $U_e$		V~	440
Frequency of operations $z$	AC1, AC3	1/h	600
Mechanical life		$S \times 10^6$	1
<b>Utilization category AC1 / AC7a, Switching of resistive load</b>			
Rated operational current $I_e (=I_{th})$	open	at 60°C	<b>A</b> <b>40</b>
Contact life		$S \times 10^6$	0,1
Minimum switch voltage		V/mA	24/100
Short time current	10s-current	A	216
Power loss per pole at $I_e/AC1$		W	3
<b>Utilization category AC2 and AC3 / AC7b, Switching of three-phase motors</b>			
Rated operational current $I_e$		A	27
Rated operational power	220V	kW	7,5
50-60Hz	230-240V	kW	8
	380-415V	kW	12,5
Contact life		$S \times 10^6$	0,15
<b>Power consumption of coils</b>			
AC operated		inrush	VA 33-45
		sealed	VA 6-8
		W	2,6
<b>Operation range of coils</b>			
in multiples of control voltage $U_s$		-40°C to +40°C	0,85-1,1
<b>Maximum ambient temperature</b>			
		open	°C -40 to +60
		enclosed	°C -40 to +40
Storage			°C -50 to +90
<b>Short circuit protection</b>			
Max. fuse Coordination-type "1"		gL (gG)	A 63
Rated short circuit current		"r"	kA 3
		"Iq"	kA 10
<b>Switching time at control voltage <math>U_s \pm 10\%</math></b>			
		make time	ms 11-15
		release time	ms 6-13
		arc duration	ms 10-15
<b>Cable cross-sections</b>			
Main connector		solid or stranded	mm <sup>2</sup> 2,5-25
		flexible	mm <sup>2</sup> 2,5-16
		flexible with multicore cable end	mm <sup>2</sup> 2,5-16
Clamps per pole			1
Magnetic coil		solid or stranded	mm <sup>2</sup> 0,75-2,5
		flexible	mm <sup>2</sup> 0,5-2,5
		flexible with multicore cable end	mm <sup>2</sup> 0,5-1,5
Clamps per pole			1
<b>Auxiliary Contacts</b> <sup>1) 2) 3)</sup>			
Rated insulation voltage $U_i$		V~	440 <sup>4)</sup>
Thermal rated current = $I_{th}$	40°C	A	40
Ambient temperature	60°C	A	40
<b>Utilization category AC15</b>			
Rated operational current $I_e$	220-240V	A	3
	380-415V	A	2
	440V	A	1,6
<b>Utilization category DC13</b>			
Rated operational current $I_e$	24-60V	A	2
per pole	110V	A	0,4
	220V	A	0,1
<b>Short circuit protection</b>			
Short-circuit current 1kA, contact welding not accepted, max. fuse size		gL (gG)	A 10



Example

## Wiring diagrams



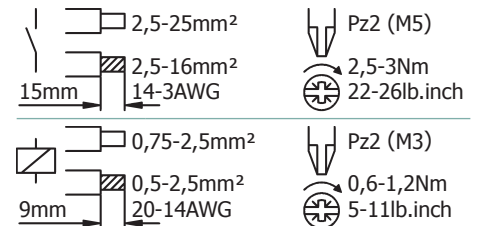
## Weight

0,36kg

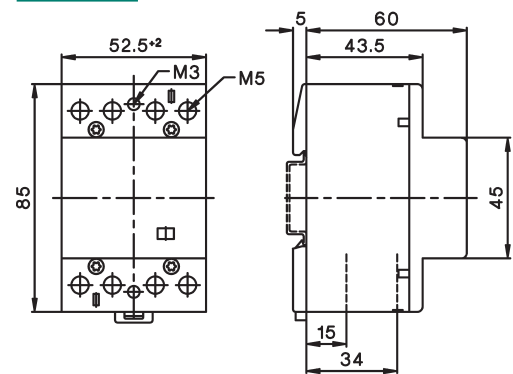
## Coil voltages

R40-.. 230	220-240V 50Hz / 230-264V 60Hz
R40-.. 24	24V 50/60Hz
R40-.. 200FR	180-210V 50Hz / 200-240V 60Hz

## Cable cross-sections, screw driver, tightening torque



## Dimensions



- 1) Rated frequency 50/60Hz
- 2) Max. occ switching overvoltage < 4kV
- 3) Duty cycle: 100%
- 4) Suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry):  $U_{imp} = 4kV$

Technical data are subject to change without notice

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