

RIC63-040/UC230V

4 pole | 63 A | 13.3 kW



Main circuit

Available contact materials	⚡ AgSnO ₂
Rated voltage	400 V AC
Rated current AC-1	63 A
Recommended minimum contact load	50 mA, 17 V
Inrush current	240 A, 100 ms / 1500 A, 300 μs
Rated load AC-1	13.3 kW
Rated load AC-3	6 kW
Rated load DC-1	see fig. 2
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000
Electrical endurance at rated load AC-3 (cycles)	≥ 150 000
Electrical endurance at rated load DC-1 (cycles)	≥ 100 000
Switching frequency at rated load AC-1 (cycles / h)	≤ 600
Switching frequency at rated load AC-3 (cycles / h)	≤ 600
Switching frequency at rated load DC-1 (cycles / h)	≤ 300

Control circuit

Nominal voltage	see table product references	
Operating voltage range	0.85 ... 1.1 U _N	
Pick-up voltage	≤ 0.85 U _N	
Release voltage	≥ 0.1 U _N	
Pick-up time	15 ... 20 ms	
Release time	35 ... 45 ms	
Power consumption AC / DC	5 VA / 5 W	
Frequency range	50 / 60 Hz (AC)	40 ... 500 Hz (UC)

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage open contact	6 kV / 1 min
Pollution degree	3
Overvoltage category	III
Clearance of open contact	3.6 mm

Wiring

Contact type control / main circuit	Screw connection M3 / M5
Conductor cross section control / main circuit	2.5 mm ² / 16 mm ²
Stripping Length control / main circuit	8 mm / 10 mm
Nominal screw torque control / main circuit	0.6 Nm / 3.5 Nm
Screwdrive control / main circuit	PZ1 / PZ2
Max. wire count control / main circuit	1
Dual sleeve control / main circuit	1

Housing and environmental conditions

Storage temperature (no ice)	-30 ... 80 °C
Ambient temperature operation 2 devices, 1 spacer	40 ... 55 °C
Ambient temperature operation 3 devices, 1 spacer	-15 ... 40 °C
Relative humidity, no condensation	95 %
Ingress Protection	IP 20
Weight	420 g
Color	grey
Housing material	PA 6
Operation Altitude	Max. 2 000 m
Mounting	DIN rail
Dimensions	see fig. 3
Mounting position	see installation instructions

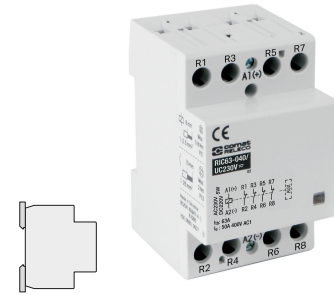


fig. 1. Wiring diagram

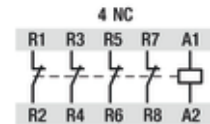


fig. 2. DC load limit curve

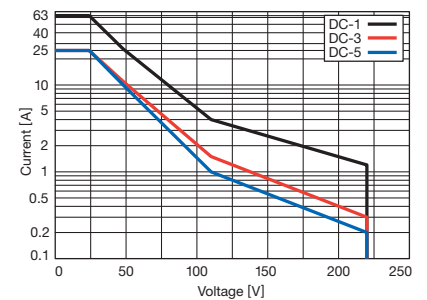
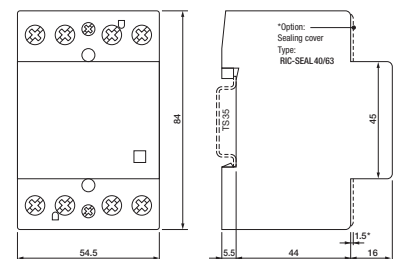


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61095

Approvals

RIC63-040/UC230V

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Safety

MTTF - Mean time to failure, AC-1 (h)	2,500
MTTF = $1/\lambda = B10/(0.1 n_{op})$, AC-3 (h)	3,750
MTTF _d - Mean time to failure dangerous, AC-1 (h)	3,333
MTTF _d = $1/\lambda = B10_d/(0.1 n_{op})$	5,000
B10 - Number of operating cycles until 10 % of devices fail, AC-1	75,000
B10 - Number of operating cycles until 10 % of devices fail, AC-3	112,500
B10 _d - Number of operating cycles until 10 % of devices fail dangerous, AC-1	100,000
B10 _d = B10/ratio of dangerous failures, AC-3	150,000
λ - Failure rate, AC-1 (1/h)	0.0004
$\lambda = (0.1 n_{op})/B10$, AC-3 (1/h)	0.000266
λ_d - Failure rate dangerous, AC-1 (1/h)	0.0003
$\lambda_d = (0.1 n_{op})/B10_{op}$, AC-3 (1/h)	0.0002
Ratio of dangerous failures (%)	75
n_{op} - Operating cycles (operating cycles/h)	300

Product references

Description	Type	230
4 NC	RIC63-040/UC...V	✓

Other voltages on request. Please contact support@comatreleco.com.
 «...» List control circuit voltage to complete product references.

Accessories

Sealing cover	RIC-SEAL40/63
Spacer	RIC-DIST
Auxiliary contact	RIC-AUX02, RIC-AUX11, RIC-AUX20

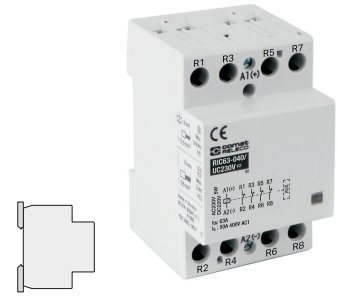


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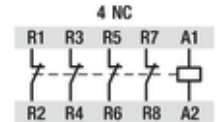


fig. 2. DC load limit curve

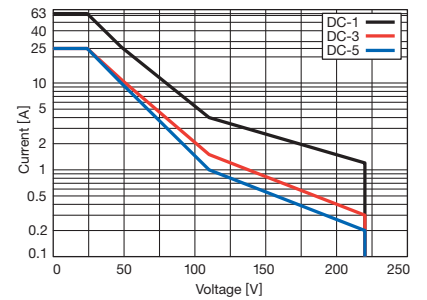
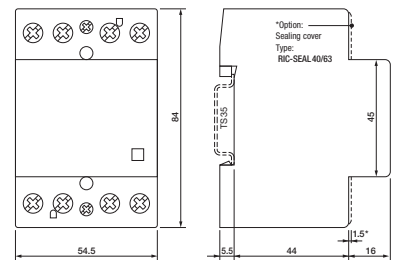


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