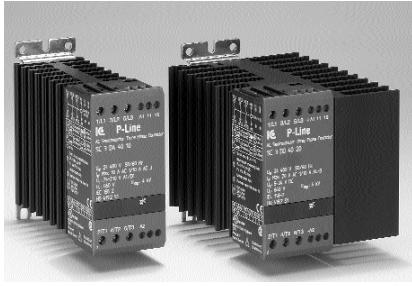


# 3 Phase dual pole electronic contactor (RC 32 Heatingelement)



- Rated operational voltage up to 480VAC 50/60 Hz
- Rated operational current up to 15 / 25A AC-1
- Control voltage from 5-24 VDC or 24-230 VAC/DC
- Compact modular design 45 or 90 mm
- LED Status indication
- Meets EN 60947-4-3 requirements
- Requires no additional components
- Built-in varistor protection
- IP-20 Protection

### Item selection and technical specifications

Load AC-1/51 Heating-element	Control voltage	Item number by 12-240VAC 50/60Hz Line Voltage	Load in kW by 230V	EAN Nr. 5705 609	Item number by 24-480VAC 50/60Hz Line Voltage	Load in kW by 400V	EAN Nr. 5705 609	Module-width
15A	5-24 VDC				RC 32 DD 4015	Max. 10.4 kW	002 428	W = 45mm
	24-230 VAC/DC				RC 32 DA 4015		002 404	W = 45mm
25A	5-24 VDC				RC 32 DD 4025	Max. 17.3 kW	002 435	W = 90mm
	24-230 VAC/DC				RC 32 DA 4025		002 411	W = 90mm

### Output load specification

Leakage current	1mA ACmax.	Min. operational current	10mA
Duty cycle	100%		

### Control terminal specifications

RC 32 DD XXXX (DC)		RC 32 DA XXXX (AC/DC)	
Control voltage	5-24 VDC	Control voltage	24-230 VAC/DC
Pick-up voltage max.	4.25 VDC	Pick-up voltage max.	20.4 VAC/DC
Drop-out voltage min.	1.5 VDC	Drop-out voltage min.	7.2 VAC/DC
Control current voltage	20 mA@24 VDC	Control current / power max.	8mA / 2.5VA@24 VDC
Max. control voltage	32 VDC	Max. control voltage	253 VAC/DC
Response time max.	1/2 cycle	Response time max.	1 cycle

### Thermal specification

Power dissipation for continuous operation PDmax	2.4 W/A	Operation in ambient temperatures exceeding 40°C is possible if the power dissipation is limited either by reducing the steady-state current or by reducing the duty-cycle as shown in the table. Max.cycle time 15min.		
Power dissipation for intermittent operation PD	2.4 W/A x dutycycle			
Cooling method	Natural convection			
Mounting	Vertical +/-30°			
Operating temperature range EN 60947-4-2	-5°C to 40°C			
Max. operating temperature with current derating	60°C			
Storage temperature EN 60947-4-2	-20°C to 80°C			
		By 40°C	By 50°C	By 60°C
		100% load Duty-cycle 100%	80% load Duty-cycle max. 0.8	65% load Duty-cycle max. 0.65

### Environment

Degree of protection	IP 20	Pollution degree	3
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### Insulation specifications

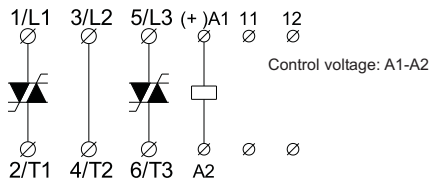
Rated insulation voltage	Ui 660 Volt
Rated impulse withstand voltage	Uimp. 4 kVolt
Installation category	III

# 3 Phase dual pole electronic contactor (RC 32 Heatingelement)

## Wiring specifications

RC 32 DX XXXX

11-12: for UP62 or other wiring purposes



## Short-circuit protection by fuses

Two type of short-circuit protection can be used:

### Short-circuit protection by fuses

Short-circuit protection is divided into 2 levels **Type 1** or **Type 2**

### Co-ordination Type 1: Short-circuit protects the installation

RC 32 DX XX15  
RC 32 DX XX25

Protection max. 50A gL/gG  
Protection max. 50A gL/gG

### Co-ordination Type 2: Short-circuit protects the installation and the semi-conductors inside the motor controller

RC 32 DX XX15  
RC 32 DX XX25

Protection max.  $i^2t$  of the fuse 610 A<sup>2</sup>S  
Protection max.  $i^2t$  of the fuse 610 A<sup>2</sup>S

Fuses from e.g. Ferraz, Siba, Bussmann can be used as short-circuit protection Type 2

More information concerning Co-ordination Type 2 see page 45

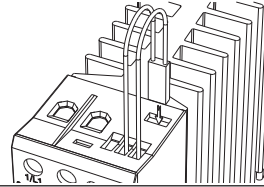
## EMC

This component meets the requirements of the product standard EN 60947-4-3 and is CE marked according to this standard. This products has been designed for class A equipment. Use of the product in domestic environments may cause radio interference, in which case the user may be required to employ additional mitigation methods.

## Mounting and cable wiring information

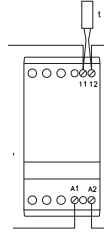
Mounting information see page 44 / Cable wiring see page 45

## Thermal overload protection (see also page 44)



Optional thermal overload protection is possible by inserting a thermostat in a slot on the right hand side of the electronic contactor. Type number UP62

Example 1

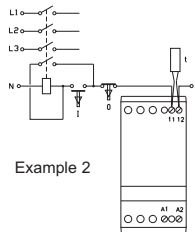


The thermostat can be connected in series with the control circuit of the electronic contactor.

When the temperature of the heatsink exceeds 90°C the electronic contactor will switch Off.

### Note:

When the temperature has dropped approx. 30°C the electronic contactor will automatically be switched on again.



Example 2

The thermostat is connected in series with the control circuit of the main contactor.

When the temperature of the heatsink exceeds 90°C the main contactor will switch Off.

### Note:

A manual reset is necessary to restart this circuit.

## Utilisation Categories (EN 60947-4-3)

- AC - 51 Switching of resistive loads
- AC - 55a Switching of electric discharge lamp controls
- AC - 55b Switching of incandescent lamps
- AC - 56a Switching of transformers

## Dimensions (see also page 44)

Type	H	D	W
45 mm module	94 mm	124.3 mm	45 mm
90 mm module	94 mm	124.3 mm	90 mm