

Suppressors for motors

Mounting methods:

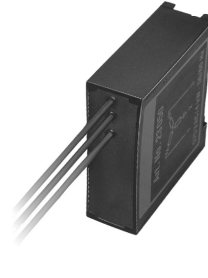
- on the motor terminal box
- inside the motor terminal box
- inside the distribution box
- on 35 mm DIN-rail to EN 60715

RC 3 U

with M16 x 1.5 screw



RC 3 BU

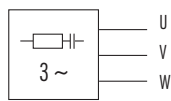


RC 3 BUG

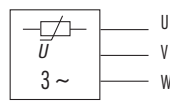


Circuit diagram

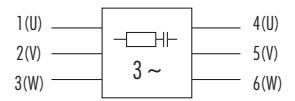
RC-suppression



Varistor-suppression (VDR)



6-wire

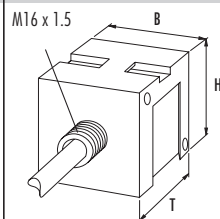


Ordering data		Art.-No.	Art.-No.	Art.-No.			
Voltage	Motor rating	suppression	suppression	suppression			
	3 x 400 V AC	4 kW	RC	23022	RC/UL	23050	RC
	4 kW			VDR/UL	23115	VDR	23100
	4 kW			VDR/UL	23115	RC	
	7.5 kW			VDR/UL	23115	RC	23104
	10 kW	RC	23011	VDR/UL	23118	RC	23106
	10 kW	RC/6-wire	23043				
	20 kW			VDR/UL	23118		
3 x 575 V AC	4 kW			RC/UL	23050		
	7.5 kW	RC/UL	23035			RC	23104
	20 kW					VDR	23102
	45 kW					RC/6-wire	¹⁾ 23103
3 x 690 V AC	4 kW			RC/UL	23056	RC	23104
	7.5 kW					RC	23104
	20 kW					VDR	23105

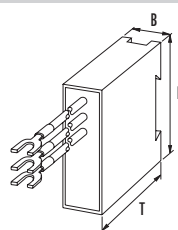
Technical data

Frequency	for RC: 50...60 Hz	for VDR: 10...400 Hz
Material	flame retardant plastic to UL 94	
Potting compound	2-component epoxy	
Temperature range	-20...+60 °C	
Connection method	approx. 500 mm PVC cable	approx. 200 mm single core
	3 x 0.75 mm ² resp. 6 x 0.75 mm ²	0.5 mm ²
		approx. 500 mm single core
		1 mm ²
		self-securing M4 fork terminal ends
Dimensions (H x B x T)	41 x 41 x 41 mm	40 x 15 x 43 mm
		61 x 25 x 92 mm

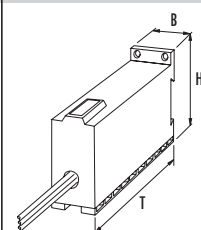
Dimension drawing



For DIN-rail mounting use
2 x Art.-No. 20900 adapter feet.



For DIN-rail mounting use
1 x Art.-No. 20900 adapter feet.



For DIN-rail mounting use
2 x Art.-No. 20900 adapter feet.

Notes

For other voltages, frequencies and motor ratings, please inquire. Do not use RC motor suppressors on variable frequency drives.
¹⁾ 1 x Art.-No. 23103 required per phase.

Suppressors for motors

Mounting methods:

- with M16 x 1.5 and M20 x 1.5
- on motor terminal box with plug connectors

RC 3 R

with M16 x 1.5 screw



RC 3 R

with M16 x 1.5 screw



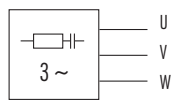
RC 3 RG

with M20 x 1.5 screw

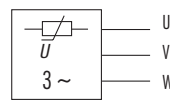


Circuit diagram

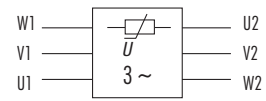
RC-suppression



Varistor-suppression (VDR)



6-wire

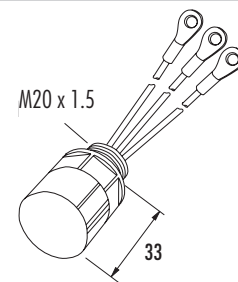
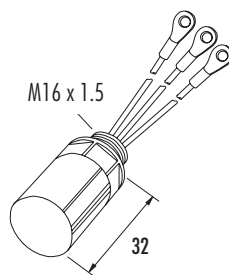


Ordering data		Art.-No.	Art.-No.	Art.-No.
Voltage 3 x 400 V AC	Motor rating	suppression	suppression	suppression
	4 kW	VDR/UL	23170	VDR
	4 kW			23175
	4 kW			
	7.5 kW	VDR	23171	
	10 kW			VDR
3 x 575 V AC	4 kW	VDR/UL	23172	RC/UL
	7.5 kW	VDR/UL	23173	
	10 kW			VDR
	20 kW			VDR/6-wire
	20 kW			VDR
	20 kW			VDR/6-wire
3 x 690 V AC	7.5 kW	VDR	¹⁾ 23174	
	20 kW			VDR/6-wire
	20 kW			²⁾ 23148
	20 kW			VDR

Technical data

Frequency	for RC: 50...60 Hz	for VDR: 10...400 Hz
Material	flame retardant plastic to UL 94	
Potting compound	2-component epoxy	
Temperature range	-20...+60 °C	
Connection method	approx. 100 mm single core 0.5 mm ²	approx. 150 mm single core 1 mm ²
Ring terminals	isolated M6	isolated M4
Dimensions	40 mm, Ø 24.5 mm	44 mm, Ø 39 mm

Dimension drawing



Notes

For other voltages, frequencies, motor ratings, resp. cable/wire lengths please inquire.
Do not use RC motor suppressors on variable frequency drives. ¹⁾ wire diameter 1.5 mm² ²⁾ to max. 660 V AC

Suppressors for motors

- Mounting methods:**
- on motor terminal box with plug connectors

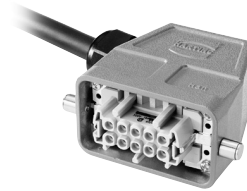
RC 3 ST

connector with cable and integrated motor suppression
cable outlet at the back



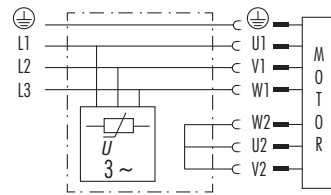
RC 3 ST

connector with cable and integrated motor suppression

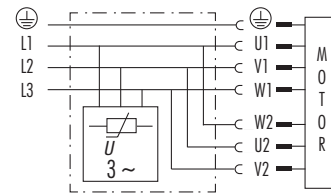


Circuit diagram

Varistor-suppression (star)



Varistor-suppression (delta)



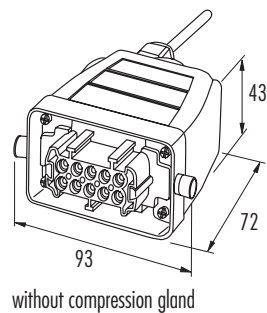
Ordering data

Voltage	Motor rating	Cable length	suppression	Art.-No.	Art.-No.
max.	5.5 kW	5 m	VDR/star	236139	VDR/star
3 x 575 V AC	5.5 kW	6 m	VDR/star	236140	
	5.5 kW	8 m	VDR/star	236141	
	5.5 kW	10 m	VDR/star	236142	VDR/star
	5.5 kW	6 m	VDR/delta	236143	236149

Technical data

Frequency	10...400 Hz	
Plug connector	female, 10-pol. + PE	
Housing	aluminium pressure diecasting	
Temperature range	-20...+60 °C	
Connection method	PUR cable black, 4 x 1.5 mm ² ; numbered wires, halogen free	PUR cable black, 4 x 1.5 mm ² ; numbered wires, DESINA® conform
Dimensions	see dimension drawing	

Dimension drawing



Notes

Suppressors for motors

Mounting methods:

- on 35 mm DIN-rail to EN 60715
- bolted together, stacked
- DIN-rail mounted under the control gear

HRC 3



HRC 3 K



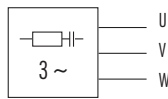
RC 3 BUR

connects onto Siemens SIRIUS contactors
3 RT 10

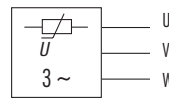


Circuit diagram

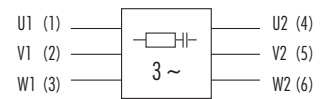
RC-suppression



Varistor-suppression (VDR)



6-wire

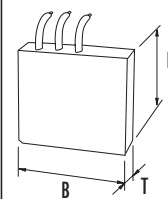
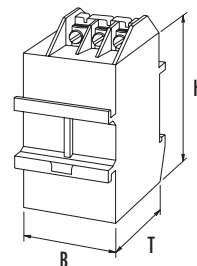
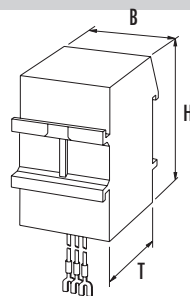


Ordering data		Art.-No.	Art.-No.	Art.-No.
Voltage 3 x 400 V AC	Motor rating	suppression	suppression	suppression
	4 kW	RC/UL	²⁾ 23000	RC
	4 kW	RC/UL	23004	RC
	4 kW	RC/UL	¹⁾ 233463	
	5.5 kW			RC/UL
	7.5 kW			236082
	10 kW	RC/UL	23002	RC
	20 kW	RC/6-wire/UL	23009	
3 x 575 V AC	20 kW	VDR/UL	23015	
	5.5 kW			RC/UL
	7.5 kW	RC/UL	23006	RC
	7.5 kW	RC/UL	¹⁾ 230563	23007
	10 kW	VDR/UL	23016	
	20 kW			RC
3 x 660 V AC	10 kW	RC	23017	23018

Technical data

Frequency	for RC: 50...60 Hz, for VDR: 10...400 Hz		
Material	flame retardant plastic to UL 94		
Potting compound	2-component epoxy		
Temperature range	-20...+60 °C		
Connection method	250 mm single core (Art.-No. 23000: 300 mm) 0.5 mm ² (Art.-No. 23000: 1.5 mm ²) self-securing M4 fork terminal ends	3-pole terminal 2 x (0.75...2.5 mm ²) M4	wire (solid core) 1.5 mm ²
Dimensions (H x B x T)	75 x 45 x 42 mm	75 x 45 x 42 mm	40 x 15 x 43 mm

Dimension drawing



Notes

For other voltages, frequencies and motor ratings, please inquire. Do not use RC motor suppressors on variable frequency drives.

¹⁾ Has ferrule ends. ²⁾ Max. nominal voltage 3 x 500 V AC +10 %

Suppressors for motors

Mounting methods:

- DIN-rail mounted under the control gear
- fixes onto contactors
- available with integrated coil suppression

HRC 3 AS

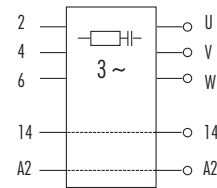
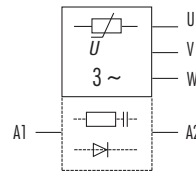
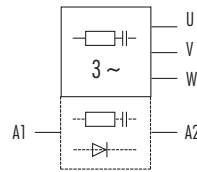


RC 3 RT

connects onto Siemens SIRIUS contactors
3 RT 10



Circuit diagram



Appropriate contactors

Motor contactors up to 5.5 kW from Siemens, Moeller, Sprecher + Schuh etc.

Siemens 3 RT 10

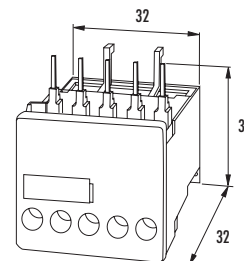
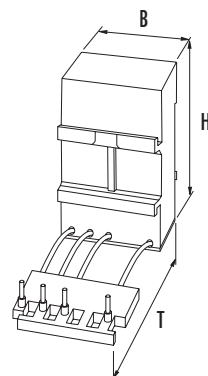
Ordering data

Voltage		Motor rating	suppression	Art.-No.	suppression	Art.-No.	suppression	Art.-No.
3 x 400 V AC	5.5 kW	RC	23160	VDR	23163	RC/UL + CSA	¹⁾ 23180	
		RC + Diode	23151	VDR + Diode	23155			
3 x 575 V AC	5.5 kW	RC	23161	VDR	23164	RC/UL + CSA	¹⁾ 23181	
		RC + Diode	23153	VDR + Diode	23157			

Technical data

Suppression coil	for RC: 230 V AC/20 VA, for Diode: 24...230 V DC/36 W
Frequency	for RC: 50...60 Hz, for VDR: 10...400 Hz
Material	flame retardant plastic to UL 94
Temperature range	-20...+60 °C
Connection method	ferrules, load side securely fixed
Dimensions (H x B x T)	75 x 45 x max. 100 mm (fully stretched)

Dimension drawing



Notes

For other voltages, frequencies and motor ratings, please inquire. Do not use RC motor suppressors on variable frequency drives.