



EMC SUPPRESSORS

SMALL DEVICE, BIG IMPACT

- Meets EMC guidelines
- Reduces voltage peaks
- Prevents coil short circuits

MURRELEKTRONIK SOLVES YOUR INTERFERENCE PROBLEMS

- Optimum interference results by adjusting your inductive load
- Prefabricated modules make it easy to install – reliably mounted every time
- Prevents operative failures and outages and increases availability
- Long service life of contacts and switching elements lower maintenance costs

THE RIGHT SUPPRESSION FOR ALL STANDARD INDUCTIVE LOADS

For Contactors

- Integrated system solutions for all standard contactors
- Universal suppressors for contactors or relays that snap in or stick to the mounting surface

For Motors

- Suppression directly next to the interference source or inside the motor terminal box
- Motor connector has 10 poles and an earth connection point with integrated suppressor module and pre-wired cable
- Integrated system solutions for direct connection to the contactor
- Universal suppressors snap in next to the motor contactor

For Valves

- Suppressors are simply mounted between valve base and valve plug instead of the flat gasket

EMC Suppressors

 <p>For Contactors ABB, General Electric, Eaton, Omron, Rockwell A. B., Schneider-Telemecanique, Siemens</p> <p>Universal Suppressors</p> <p style="text-align: right;"><i>Page 1.8.1</i></p>	 <p>For Motors – Installation on the Motor RC 3 U, RC 3 R, RC 3 ST</p> <p style="text-align: right;"><i>Page 1.8.12</i></p>
 <p>For Motors – Installation in the Cabinet RC 3 BUR, HRC 3 AS, RC 3 RT</p> <p style="text-align: right;"><i>Page 1.8.15</i></p>	 <p>For Valves Form A, B, BI, C, CI</p> <p style="text-align: right;"><i>Page 1.8.17</i></p>

EMC SUPPRESSORS

Suppressors for contactors



BC



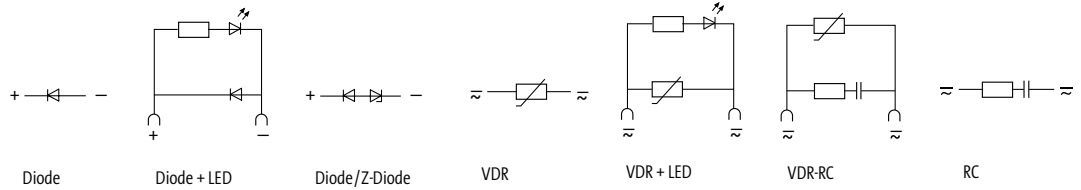
A 16



A 110

Approvals:

Circuit diagram



Appropriate contactors

B 6, BC 6, VB 6, KC 6

A 9...A 16

A 26...A 110

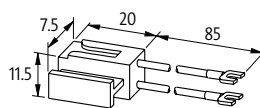
Order Data

Order Data		Art.-No.		Art.-No.		Art.-No.	
Voltage	Suppression	Approval		Approval		Approval	
24...240 V DC	Diode				26440		
24 V DC	Diode + LED						
	Diode/Z-Diode						
24 V AC/DC	VDR	CSA	26277				
	VDR + LED						
	RC						
48 V DC	Diode/Z-Diode						
48 V AC/DC	VDR	CSA	26278				
	RC						
110 V AC/DC	VDR						
	VDR + LED						
	VDR-RC						
	RC			CSA	21172	CSA	21173
230 V AC/DC	VDR	CSA	26079				
	VDR + LED						
	VDR-RC						
	VDR-RC + LED						
	RC			CSA	21172	CSA	21173
400 V AC/DC	VDR						
	RC						
415 V AC/DC	RC						

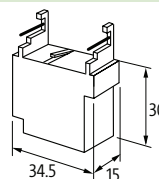
Technical Data

Damping factor	$\sim 1.5 \times U_n$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	self-securing cable forks

Dimension drawing



plug contact



Notes

EMC SUPPRESSORS

Suppressors for contactors



Approvals:

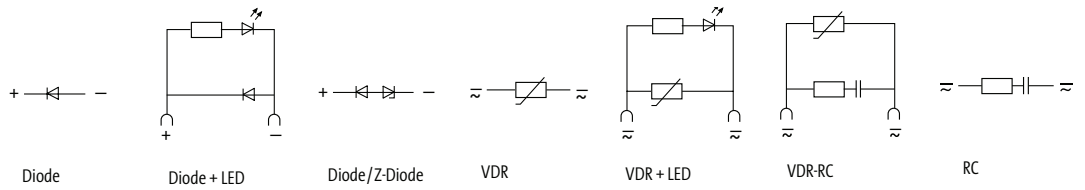
M



CL



Circuit diagram



Appropriate contactors

M	CL00, 01, 02, 25	CL03, 04, 45	CL05...10
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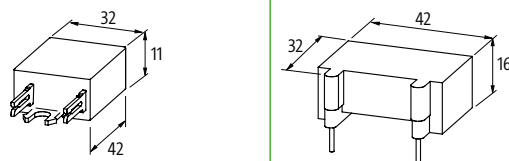
Order Data

Voltage	Suppression	Art.-No.	Art.-No.	Art.-No.	Art.-No.
24...240 V DC	Diode	2000-68300-1100000	2000-69100-1100000	2000-69200-1100000	
24 V DC	Diode + LED				
	Diode/Z-Diode				
24 V AC/DC	VDR	2000-68300-4400000	2000-69100-4400000	2000-69200-4400000	2000-69100-4400000
	VDR + LED				
	RC	2000-68300-4300000	2000-69100-4300000	2000-69200-4300000	2000-69101-4300000
48 V DC	Diode/Z-Diode				
48 V AC/DC	VDR	2000-68300-4400000	2000-69100-4400000	2000-69200-4400000	2000-69100-4400000
	RC	2000-68300-4300000	2000-69100-4300000	2000-69200-4300000	2000-69101-4300000
110 V AC/DC	VDR		2000-69100-7400000	2000-69200-7400000	2000-69100-7400000
	VDR + LED				
	VDR-RC				
	RC		2000-69100-7300000		
230 V AC/DC	VDR		2000-69100-2420000	2000-69200-2420000	
	VDR + LED				
	VDR-RC				
	VDR-RC + LED				
	RC			2000-69200-2320000	2000-69101-2320000
400 V AC/DC	VDR		2000-69100-5420000	2000-69200-5420000	2000-69100-5420000
	RC				
415 V AC/DC	RC				

Technical Data

Damping factor	$\sim 1.5 \times U_n$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	plug contact

Dimension drawing



Notes

Art.-No. 2000-69200-1100000 – also for CL05...10 DC-coils.

EMC SUPPRESSORS

Suppressors for contactors

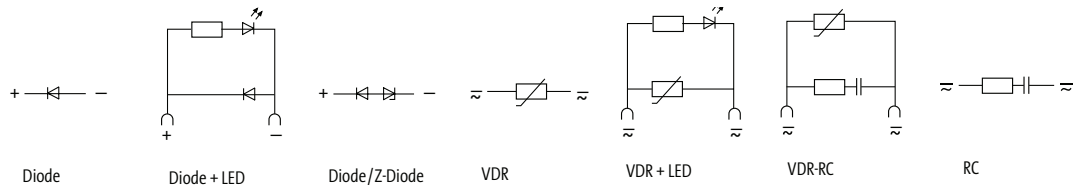


Approvals: **UL** **US**

X-Start



Circuit diagram



Appropriate contactors

DIL M7...15 DIL MP20, DIL A	DIL M17...32	DIL M40...95
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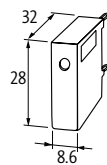
Order Data

Voltage	Suppression	Art.-No.	Art.-No.	Art.-No.
24...240 V DC	Diode			
24 V DC	Diode + LED			
	Diode/Z-Diode			
24 V AC/DC	VDR			
	VDR + LED	26013	26015	
	RC			
48 V DC	Diode/Z-Diode			
48 V AC	VDR + LED	26013	26015	
	RC			
110 V AC/DC	VDR			
	VDR + LED	26014		
	VDR-RC			
	RC	20007	20008	20009
230 V AC/DC	VDR			
	VDR + LED	26014		
	VDR-RC			
	VDR-RC + LED			
	RC	20007	20008	20009
400 V AC/DC	VDR			
	RC			

Technical Data

Damping factor	$\sim 1.5 \times U_N$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	plug contact

Dimension drawing



Notes

LED indicator for 24 V DC without suppression available on request.

EMC SUPPRESSORS

Suppressors for contactors

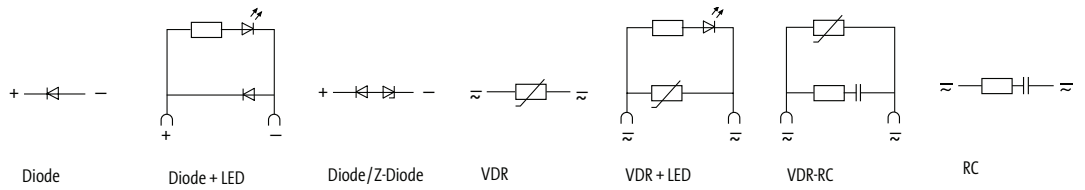


Approvals:

DIL E



Circuit diagram



Appropriate contactors

DIL E...

Order Data

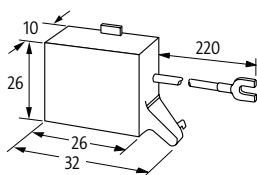
Art.-No.

Voltage	Suppression	Art.-No.
24...240 V DC	Diode	
24 V DC	Diode + LED	
	Diode/Z-Diode	
24 V AC/DC	VDR	
	VDR + LED	
	RC	
48 V DC	Diode/Z-Diode	
48 V AC/DC	VDR	
	RC	
110 V AC/DC	VDR	
	VDR + LED	
	VDR-RC	
	RC	21054
230 V AC/DC	VDR	26086
	VDR + LED	
	VDR-RC	
	VDR-RC + LED	
	RC	21054
400 V AC/DC	VDR	
	RC	

Technical Data

Damping factor	$\sim 1.5 \times U_N$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	self-securing cable forks

Dimension drawing



Notes

EMC SUPPRESSORS

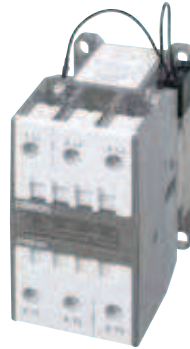
Suppressors for contactors

OMRON

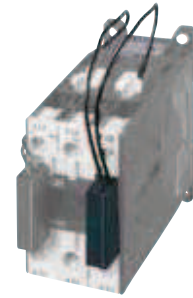
J7KNA



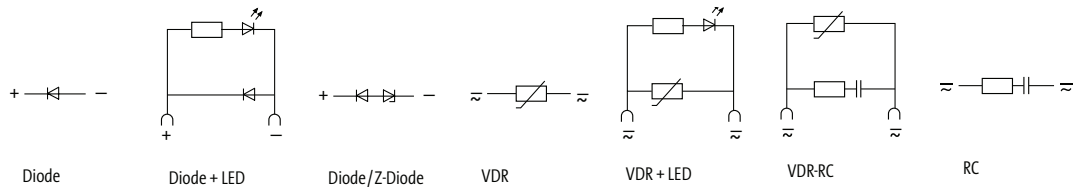
J7KN



J7KN



Circuit diagram



Appropriate contactors

J7KNA

J7KN

J7KN

Order Data

Art.-No.

Art.-No.

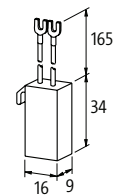
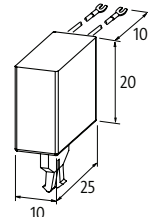
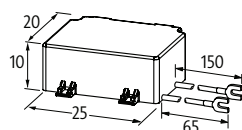
Art.-No.

Voltage	Suppression	Art.-No.	Art.-No.	Art.-No.
24...240 V DC	Diode			Approval
24 V DC	Diode + LED			
	Diode/Z-Diode			
24 V AC/DC	VDR			cURus / CSA 26400
	VDR + LED	2000-68800-2300000	2000-69000-2300000	
	RC			
48 V DC	Diode/Z-Diode			
48 V AC	VDR			cURus / CSA 26401
	RC			
110 V AC/DC	VDR			
	VDR + LED			
	VDR-RC			
	RC	2000-68800-7300000		
230 V AC/DC	VDR			cURus / CSA 26403
	VDR + LED			
	VDR-RC			
	VDR-RC + LED			
	RC	2000-68800-2320000		
400 V AC/DC	VDR			cURus / CSA 26404
	RC			

Technical Data

Damping factor	$\sim 1.5 \times U_N$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	self-securing cable forks

Dimension drawing



Notes

Further types on request.

EMC SUPPRESSORS

Suppressors for contactors

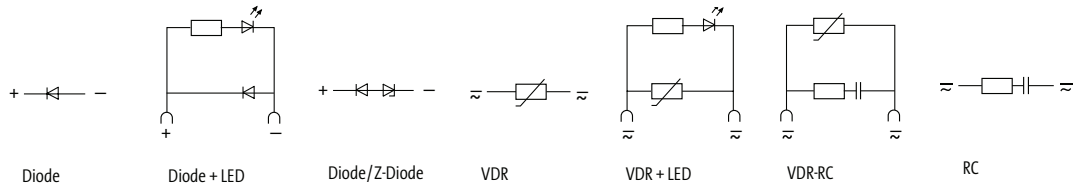


Approvals:

I00-C



Circuit diagram



Appropriate contactors

I00-C09...C85

Order Data

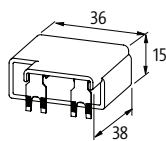
Art.-No.

Voltage	Suppression	Art.-No.
24...240 V DC	Diode	2000-68200-1100000
24 V DC	Diode + LED	
24 V AC/DC	Diode /Z-Diode	
	RC	2000-68200-4300000
	VDR	2000-68200-4400000
48 V AC/DC	RC	2000-68200-4300000
	VDR	2000-68200-4400000
110 V AC/DC	VDR	2000-68200-7400000
	VDR + LED	
	VDR-RC	
	RC	2000-68200-1320000
	VDR	2000-68200-2420000
230 V AC/DC	VDR + LED	
	VDR-RC	
	VDR-RC + LED	
	RC	2000-68200-1320000
	VDR	2000-68200-5320000
400 V AC/DC	RC	2000-68200-5320000
	VDR	2000-68200-5420000

Technical Data

Damping factor	$\sim 1.5 \times U_N$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	plug contact

Dimension drawing



Notes

EMC SUPPRESSORS

Suppressors for contactors



TeSys



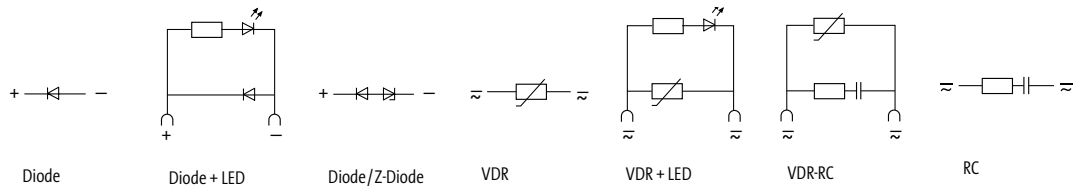
TeSys



TeSys



Circuit diagram



Appropriate contactors

LC 1 D09...D38 LC 1 DT20, DT40, LC 2 D09...D38 AC-coil	LC 1 D09...D38 LC 1 DT20, DT40, LC 2 D09...D38 DC-coil	CA 2 DN, CA 3 DN serie „d“ LC 1 DT20, DT40, LC 2 D09...D38
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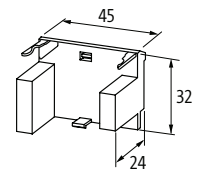
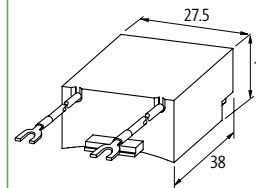
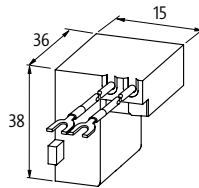
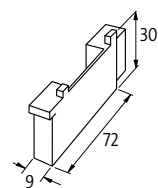
Order Data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Voltage	Suppression	Approval	Approval	
24...240 V DC	Diode		cURus 2000-69300-1100000	26481
24 V DC	Z-Diode	26476	cURus 2000-69300-5200000	
24 V AC/DC	VDR	cURus 2000-69400-4400000	cURus 2000-69300-4400000	
	RC	cURus 2000-69400-4300000	cURus 2000-69300-4300000	21070
30...250 V DC	Z-Diode			
48 V AC/DC	VDR	cURus 2000-69400-4400000	cURus 2000-69300-4400000	
	VDR + LED			
	RC	cURus 2000-69400-4300000	cURus 2000-69300-4300000	21070
110 V AC/DC	VDR	cURus 2000-69400-7400000	cURus 2000-69300-7400000	
	VDR + LED			
	RC	21063 cURus 2000-69400-7300000	cURus 2000-69300-7300000	21071
230 V AC/DC	VDR	cURus 2000-69400-2420000	cURus 2000-69300-2420000	
	VDR + LED			
	VDR-RC + LED			
	RC	21063 cURus 2000-69400-2320000	cURus 2000-69300-2320000	21060
400 V AC/DC	RC + LED			
	VDR	cURus 2000-69400-5420000		
	RC	cURus 2000-69400-5320000		

Technical Data

Damping factor	$\sim 1.5 \times U_N$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)

Connection wires	plug contact	self-securing cable forks	self-securing cable forks	plug contact
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Dimension drawing



Notes

EMC SUPPRESSORS

Suppressors for contactors

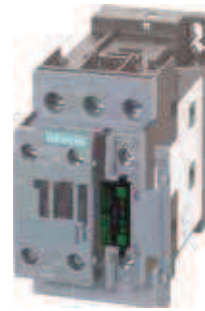
S00

S0

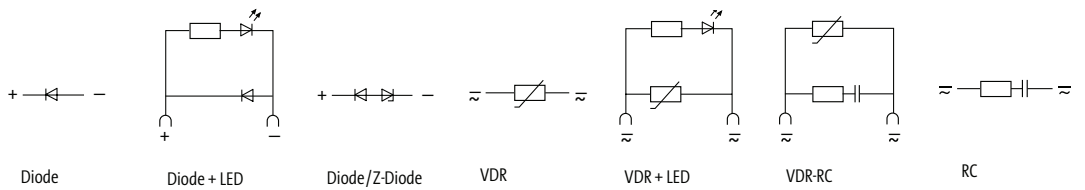
SIEMENS



Approvals:



Circuit diagram



Appropriate contactors

3 RT 20.15/16/17/18

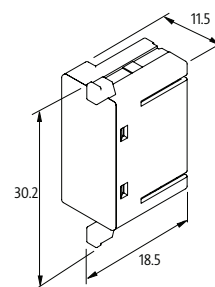
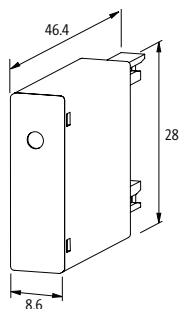
3 RT 20.25/26/27/28

Order Data		Art.-No.	Art.-No.
Voltage	Suppression		
24...240 V DC	Diode	2000-68500-1100000	
24 V DC	Diode + LED		2000-68400-2010000
	Diode/Z-Diode		
24 V AC/DC	VDR	2000-68500-4400000	2000-68400-4400000
	VDR + LED	2000-68500-4410000	2000-68400-4410000
	RC	2000-68500-4300000	2000-68400-4300000
48 V AC/DC	VDR		
	RC	2000-68500-4300000	2000-68400-4300000
110 V AC/DC	VDR	2000-68500-7400000	2000-68400-7400000
	VDR + LED	2000-68500-7410000	2000-68400-7410000
	VDR-RC		
	RC	2000-68500-7300000	2000-68400-7300000
230 V AC/DC	VDR	2000-68500-2420000	2000-68400-2420000
	VDR + LED	2000-68500-2470000	
	RC	2000-68500-2320000	2000-68400-2320000
400 V AC/DC	VDR	2000-68500-5420000	2000-68400-5420000
	RC	2000-68500-5320000	2000-68400-5320000

Technical Data

Damping factor	$\sim 1.5 \times U_N$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	plug contact

Dimension drawing



Notes

EMC SUPPRESSORS

Suppressors for contactors

SIEMENS

S0 4



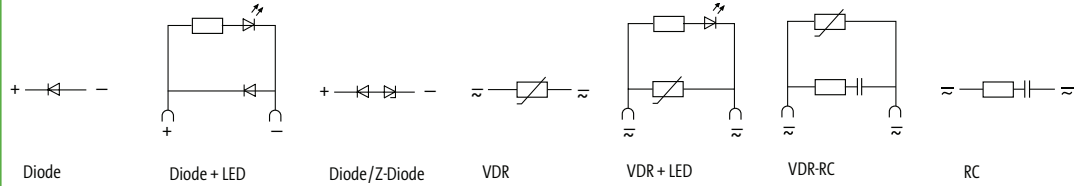
S0 1



3 TF/L-3 TF



Circuit diagram



Appropriate contactors

3 TF 30...35
3 TF 40...45

3 TF 30...45
3 TB 40...3 TB 44

3 TH 2, 3 TF 2
3 TH 20, 3 TF 20

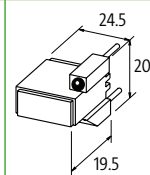
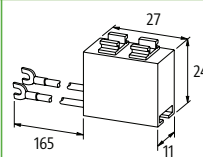
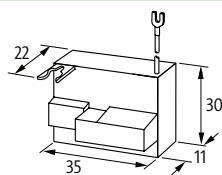
Order Data

Order Data		Art.-No.	Art.-No.	Art.-No.
Voltage	Suppression	Approval	Approval	Approval
24...240 V DC	Diode	CSA	UR / CSA	cURus / CSA
24 V DC	Diode + LED	26588	26283	26036
	Diode/Z-Diode		UR / CSA	cURus / CSA
			26051	26034
24 V AC/DC	VDR	CSA		
	VDR + LED			
	RC		UR / CSA	
			22050	
48 V DC	Diode/Z-Diode			
48 V AC/DC	VDR	CSA		cURus / CSA
	RC		UR / CSA	
			22051	26038
110 V AC/DC	VDR			
	VDR + LED			
	VDR-RC			
	RC		UR / CSA	
			22051	
230 V AC/DC	VDR	CSA	UR / CSA	cURus / CSA
	VDR + LED			
	VDR-RC			
	RC		UR / CSA	
	RC		UR / CSA	
			26317	26039
			22052	
			22054	
400 V AC/DC	VDR			
	RC		UR / CSA	
			22054	

Technical Data

Damping factor	$\sim 1.5 \times U_N$
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	self-securing cable forks

Dimension drawing

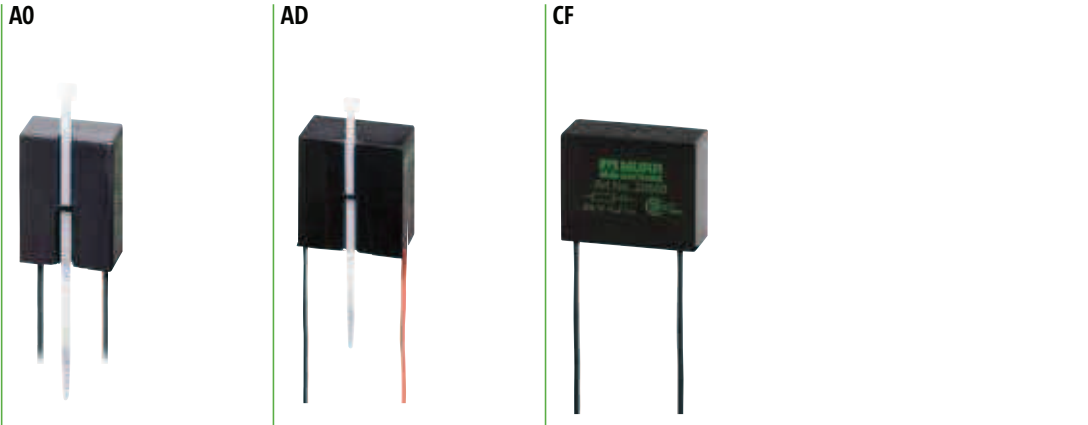


Notes

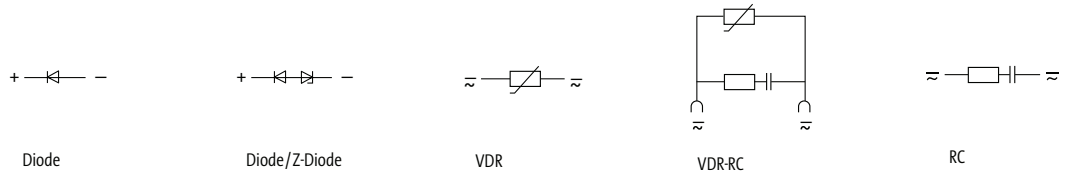
EMC SUPPRESSORS

Suppressors

– universal



Circuit diagram



Appropriate contactors

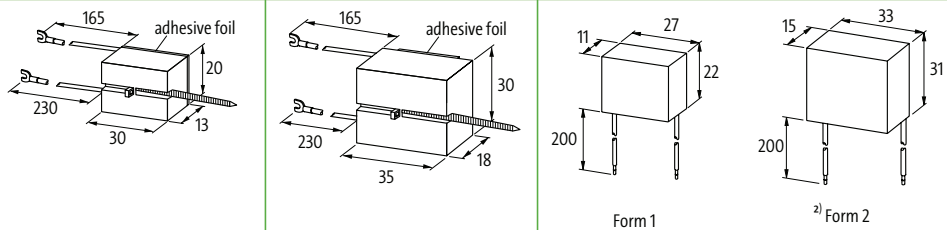
universal universal universal

Order Data		Art.-No.	Art.-No.	Art.-No.	sugg. coil valves		
Voltage	Suppression	Approval	Approval	Approval	AO	AD	CF
Max. 240 V DC	Diode	CSA 26001			15 W		
24V DC	Z-Diode	CSA 26120	CSA 26073		25 W	75 W	
24V AC/DC	VDR	cURus / CSA 26180	CSA 26720		50 VA/W	200 VA/W	
	RC			CSA 20680			20 VA
48V AC/DC	VDR	cURus / CSA 26181			70 VA/W		
	RC	cURus / CSA 20001	cURus / CSA 20013		15 VA	15 VA	
110V AC/DC	VDR	cURus / CSA 26182	CSA 26722		100 VA/W	200 VA/W	
	VDR-RC						
	RC						
230V AC/DC	VDR	cURus / CSA 26183	CSA 26723		200 VA/W	200 VA/W	
	VDR	cURus / CSA 26184			200 VA/W		
	RC		CSA 20014	CSA 20682		25 VA	20 VA
	RC	cURus / CSA 20002	cURus / CSA 20010	CSA 20683	15 VA	75 VA	20 VA
	RC		cURus / CSA 20011	CSA ²⁾ 20687		100 VA	50 VA
400V AC/DC	VDR		CSA 26724			200 VA/W	
	RC	cURus / CSA 20004	cURus / CSA 20012	CSA 20688	15 VA	100 VA	50 VA
	RC						

Technical Data

Damping factor	approx. 1.5
Temperature range	-20...+70 °C
Material	plastic, flame retardant (UL 94)
Connection wires	self-securing cable forks flexible connection wires

Dimension drawing



Notes

Art.-No. 26184 – up to 300 V AC/DC

EMC SUPPRESSORS

Suppressors

– universal

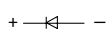
H

RC-BUG 2

BU + UB



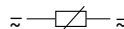
Circuit diagram



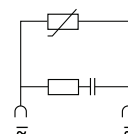
Diode



Diode/Z-Diode



VDR



VDR-RC



RC

Appropriate contactors

universal

universal

universal

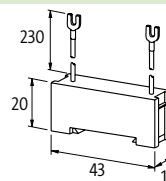
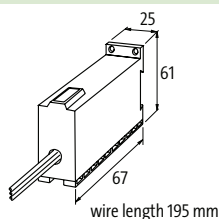
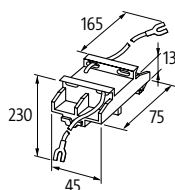
Order Data

Order Data		Art.-No.	Art.-No.	Art.-No.	sugg. coil valves		
Voltage	Suppression	Approval	Approval	Approval	H	RC-BUG 2	BU + UB
24...240 V DC	Diode	CSA	26097	CSA	26020	25 W	50 W
24 V DC	Z-Diode	CSA	26095	CSA	26130	25 W	50 W
24 V AC/DC	VDR	cURus / CSA	26090	cURus / CSA	26150	50 VA/W	50 VA/W
	RC						
48 V AC/DC	VDR						
	RC	CSA	20100		15 VA		
110 V AC/DC	VDR						
	VDR-RC						
	RC			CSA	26613		146 VA
230 V AC/DC	VDR			CSA	26619		100 VA/W
	VDR			cURus / CSA	26155		200 VA/W
	RC	CSA	20101	CSA	26614	15 VA	146 VA
	RC	CSA	20102	CSA	20031	25 VA	25 VA
	RC	CSA	20103	CSA	20033	25 VA	25 VA
	RC	CSA		CSA	20034	75 VA	25 VA
400 V AC/DC	VDR						
	RC			CSA	26615		146 VA
	RC			CSA	26616		146 VA

Technical Data

Damping factor	approx. 1.5	
Temperature range	-20...+70 °C	
Material	plastic, flame retardant (UL 94)	
Mounting method	DIN-rail mounting (EN 60715)	with adapter ASA Art.-No. 20900, DIN-rail mounting (EN 60715)
Connection wires	self-securing cable forks	

Dimension drawing



Notes

Art.-No. 20034 – without adapter, can be directly snapped onto DIN-rail, ASA adapter **Art.-No. 20900** included in delivery.
Art.-No. 26616 – up to 600 V AC/DC

EMC SUPPRESSORS

Suppressors for motors

Mounting methods:

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

RC 3 U

M16 x 1.5



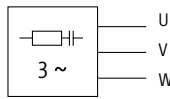
RC 3 BU



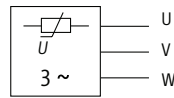
RC 3 BUG



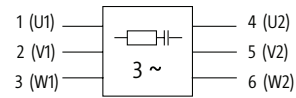
Circuit diagram



RC



VDR



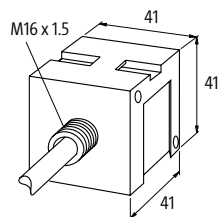
RC-(1) per phase

Order Data		Art.-No.	Art.-No.	Art.-No.	
3 × 400 V AC	Motor rating	Suppression/Approval	Suppression/Approval	Suppression/Approval	
	4 kW	RC	RC / cURus	RC	
	4 kW			VDR	
	4 kW		VDR / cURus	RC	
	7.5 kW		VDR / cURus	RC	
	10 kW	RC	VDR / cURus	RC	
3 × 575 V AC	4 kW		RC / cURus		
	7.5 kW	RC / cURus		RC	
	20 kW			VDR	
	45 kW			RC-per phase	
	3 × 690 V AC	4 kW		RC / cURus	RC
		7.5 kW			RC
20 kW					

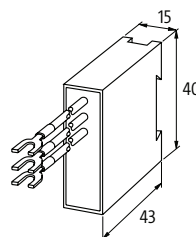
Technical Data

Frequency	for RC: 50...60 Hz; for VDR: 10...400 Hz		
Material	plastic, flame retardant (UL 94)		
Potting compound	2-component epoxy		
Temperature range	-20...+60 °C		
Connection method	approx. 500 mm PVC cable 3 × 0.75 mm ² or 7 × 0.75 mm ²	approx. 200 mm single core 0.35 mm ² ; Art.-No. 23056 0.5 mm ² with self-securing M4 cable forks M4	approx. 500 mm single core 1 mm ²

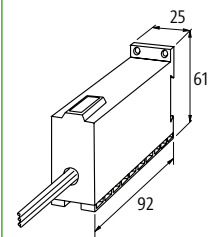
Dimension drawing



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



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



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

Notes

Do not use RC motor suppressors on variable frequency drives.
1 × **Art.-No. 23103, 23043** required per phase.

EMC SUPPRESSORS

Suppressors for motors

Mounting methods:

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

RC 3 R

M16 x 1.5 screw



RC 3 R

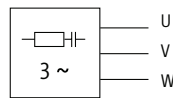
M16 x 1.5 screw

RC 3 RG

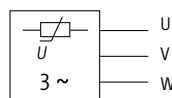
M20 x 1.5 screw



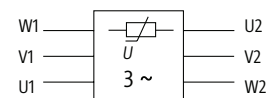
Circuit diagram



RC



VDR



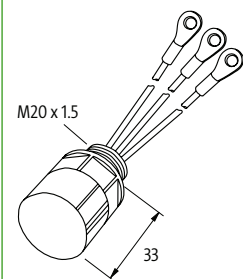
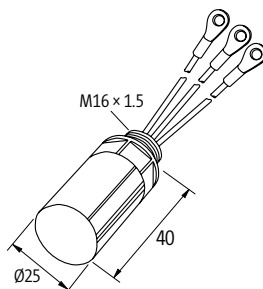
VDR-(1) per phase

Order Data		Art.-No.	Art.-No.	Art.-No.
Voltage	Motor rating	Suppression/Approval	Suppression/Approval	Suppression/Approval
3 x 400 V AC	4 kW	VDR / cURus	23170	VDR / cURus
	4 kW			
	4 kW			
	7.5 kW	VDR	23171	
	10 kW			VDR
	20 kW			VDR
3 x 575 V AC	4 kW	VDR / cURus	23172	RC / cURus
	7.5 kW	VDR / cURus	23173	
	10 kW			VDR / cURus
	20 kW			VDR / cURus
	20 kW			VDR-Einzel
	20 kW			
3 x 690 V AC	7.5 kW	VDR	23174	
	20 kW			VDR

Technical Data

Frequency	for RC: 50...60 Hz; for VDR: 10...400 Hz		
Material	plastic, flame retardant (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	isolated M6

Dimension drawing



Notes

Do not use RC motor suppressors on variable frequency drives.

Art.-No. 23174 – wire diameter 1.5 mm².

EMC SUPPRESSORS

Suppressors for motors

Mounting methods:

- on the motor terminal box with plug connectors

RC 3 ST

Connector with cable and integrated motor suppression
Cable outlet in the back

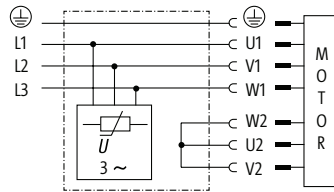


RC 3 ST

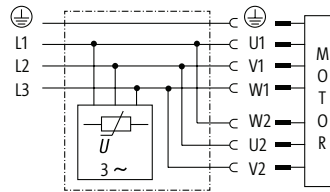
Connector with cable and integrated motor suppression
Cable outlet (right angle)



Circuit diagram



Varistor-suppression (star)



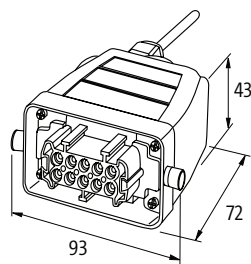
Varistor-suppression (delta)

Order Data			Art.-No.	Art.-No.
Voltage	Motor rating	Cable length	Suppression	Suppression
max.	5.5 kW	5 m	VDR/star	VDR/star
3 × 575 V AC	5.5 kW	8 m	236139	236148
	5.5 kW	10 m	236141	236149
			VDR/star	VDR/star
			236142	236149

Technical Data

Frequency	10...400 Hz
Plug connector	females, 10-pol. + PE
Housing	aluminium pressure diecasting
Temperature range	-20...+60 °C
Connection method	PUR cable black, 4 × 1.5 mm ² ; numbered wires, halogen free
	PUR cable black, 4 × 1.5 mm ² ; numbered wires, DESINA® compliant

Dimension drawing



(without compression gland)

Notes

EMC SUPPRESSORS

Suppressors for motors

Mounting methods:

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

HRC 3



HRC 3 K



RC 3 BUR

Connects onto Siemens SIRIUS 3 RT 20 contactors, with screw terminal

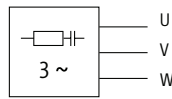


RC 3 BUC

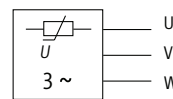
Connects onto Siemens SIRIUS 3 RT 20 contactors, with spring clamp terminal



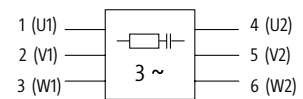
Circuit diagram



RC



VDR



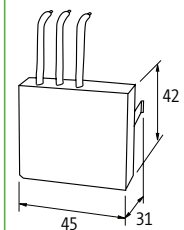
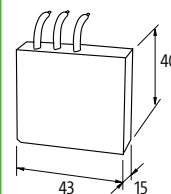
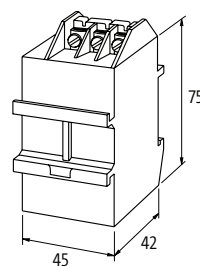
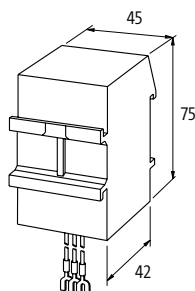
RC(1) per phase

Order Data		Art.-No.	Art.-No.	Art.-No.	Art.-No.
Voltage	Motor rating	Suppression/Approval	Suppression	Suppression/Approval	Suppression/Approval
3 × 400 V AC	4 kW	RC / cURus	23004	RC	23005
	4 kW	RC / cURus	233463		
	5.5 kW			RC / cURus	236082
	7.5 kW				RC / cURus
	10 kW	RC / cURus	23002	RC	23003
	20 kW	RC-per phase / cURus	23009		
3 × 500 V AC +10 %	20 kW	VDR / cURus	23015		
	4 kW	RC / cURus	23000	RC	23001
3 × 575 V AC	5.5 kW			RC / cURus	236082
	7.5 kW	RC / cURus	23006	RC	23007
	7.5 kW	RC / cURus	230563		RC / cURus
	10 kW	VDR / cURus	23016		
	20 kW			RC	23018
3 × 690 V AC	10 kW	RC	23017		

Technical Data

Frequency	for RC: 50...60 Hz; for VDR: 10...400 Hz			
Material	plastic, flame retardant (UL 94)			
Potting compound	2-component epoxy			
Temperature range	-20...+60 °C			
Connection method	approx. 250 mm s. core (Art.-No. 23000: 300 mm) 0.5 mm ² (Art.-No. 23000: 1.5 mm ²) with self-securing M4 cable forks	3-pole terminal 2 × (0.75...2.5 mm ²) M4	wire (solid core) 1.5 mm ²	wire with ferrule ends 2.0 mm ²

Dimension drawing



Notes

Do not use RC motor suppressors on variable frequency drives.
Art.-No. 233463 and **230563** – with ferrule ends.

EMC SUPPRESSORS

Suppressors for motors

Mounting methods:

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

HRC 3 AS

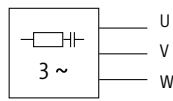


RC 3 RT

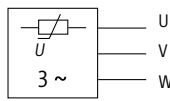
Connects onto Siemens SIRIUS 3 RT 10 contactors with screw terminal



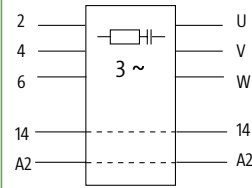
Circuit diagram



RC



VDR



Appropriate contactors

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

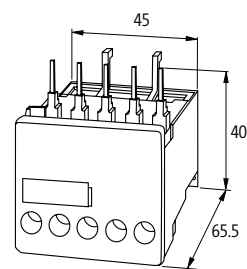
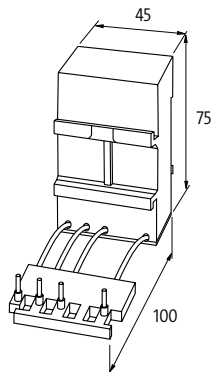
Siemens 3 RT 10

Order Data		Art.-No.	Art.-No.	Art.-No.
Voltage	Motor rating	Suppression motor + coil	Suppression motor + coil	Suppression / Approval
	3 × 400 V AC	5.5 kW	RC 23160	VDR 23163
3 × 575 V AC	5.5 kW	RC + Diode	23151	
	5.5 kW	RC	23161	VDR
			VDR + Diode	23157

Technical Data

Suppression Spule	for RC: 230 V AC/20 VA; for RC + Diode: 24...230 V DC/36 W
Frequency	for RC: 50...60 Hz; for VDR: 10...400 Hz
Material	plastic, flame retardant (UL 94)
Temperature range	-20...+60 °C
Connection method	ferrules, load side securely fixed

Dimension drawing



Notes

Do not use RC motor suppressors on variable frequency drives.

EMC SUPPRESSORS

Suppressors for valves

- with LED
- with suppression

VBS

Form A
Pin spacing 18 mm
EN 175301-803 (ISO 4400)

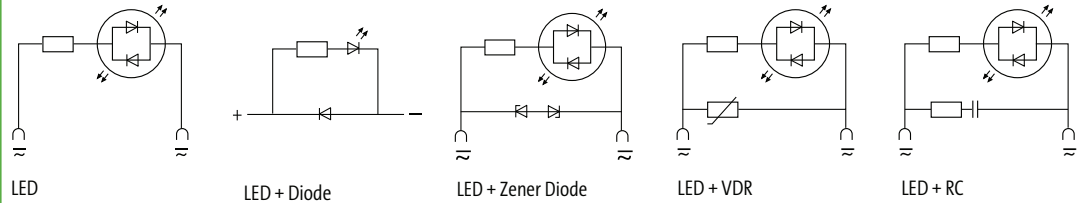


LBS

Form BI Industrial Standard
Pin spacing 11 mm



Circuit diagram

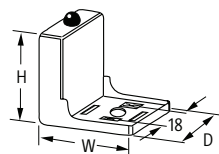


Order Data		Art.-No.	Art.-No.	Switch off delay time [ms]	Switch off voltage peak [V]	Valve hold-on rating [W/VA]
Voltage	Suppression					
24 V DC	LED + Diode	¹⁾ 3124021	3124221	200	1	50
24 V AC/DC	LED	¹⁾ 3124015	3124215	-	-	50
	LED + Z-Diode	¹⁾ 3124033	3124233	20	55	100
	LED + VDR	¹⁾ 3124048	3124248	15	45	50
	LED + RC	3124068		20	105	10
	LED + RC		3124269	20	70	20
48 V AC/DC	LED	¹⁾ 3124017		-	-	50
	LED + VDR	¹⁾ 3124052		10	75	100
	LED + RC	²⁾ 3124071		20	90	30
110 V AC/DC	LED	3124018		-	-	50
	LED + VDR	3124046		10	235	100
	LED + RC	3124070		20	250	10
	LED + RC	²⁾ 3124072		20	250	25
230 V AC/DC	LED	3124016	3124216	-	-	50
	LED + VDR	3124049	3124249	15	360	100
	LED + RC	3124063	3124263	20	300	10
	LED + RC	²⁾ 3124064		20	300	25

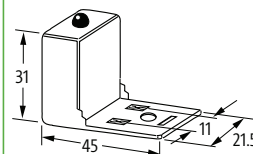
Technical Data

Supply indicator	LED yellow
Contact material	silvered bronze
Protection	IP65 when fully mounted
Material	polyamide black, flame retardant, temperature resistant up to 130 °C
Temperature range	-20...+60 °C

Dimension drawing



Housing H x W x D: 37 x 45 x 30 mm
¹⁾ Housing H x W x D: 37 x 39 x 30 mm
²⁾ Housing H x W x D: 37 x 53 x 33 mm
 0° and 180° version on request



Note PIN arrangement (PE at cable outlet of connector)
 180° version on request

Notes

Do not use plug gasket when fitting adapter. Other LED colors on request.
 For double valves the VA 2 series is suitable (please inquire). At Art.-No. 3124021 and 3124221 polarity dependent

EMC SUPPRESSORS

Suppressors for valves

- with LED
- with suppression

DAB/PBS

Form B/BI
Pin spacing 10/11 mm
EN 175301-803 (ISO 6952)

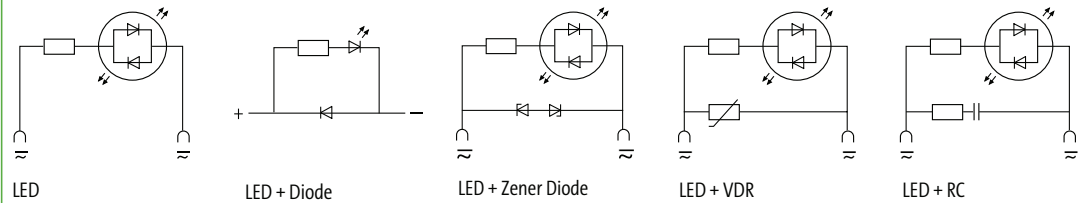


MVK/MVT

Form C/CI
Pin spacing 8/9.4 mm
EN 175301-803 (ISO 6952)



Circuit diagram

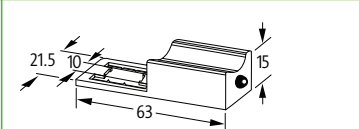


Order Data		Art.-No.	Art.-No.	Art.-No.	Art.-No.			
Voltage	Suppression	Form B	Form BI	Form C	Form CI	Switch off delay time [ms]	Switch off voltage peak [V]	Valve-hold-on rating [W/VA]
24 V DC	LED + Diode	3124871	3124121			200	1	50
24 V AC/DC	LED	3124875	3124115	3124811	3124815	-	-	50
	LED + Z-Diode	3124873	3124133	3124833	3124832	20	55	100
	LED + VDR		3124148			15	45	50
	LED + RC		3124169			20	70	20
110 V AC/DC	LED + RC		3124170			20	250	10
230 V AC/DC	LED		3124116			-	-	50
	LED + VDR					15	360	100
	LED + RC		3124163			20	300	10

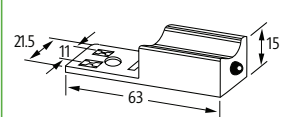
Technical Data

Supply indicator	LED yellow
Contact material	silvered bronze
Protection	IP65 when fully mounted
Material	polyamide black, flame retardant, temperature resistant up to 130 °C
Temperature range	-20...+60 °C

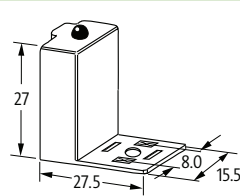
Dimension drawing



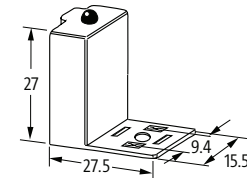
Suitable for 0° and 180° installation



Note PIN arrangement
(PE at cable outlet of connector)
180° version on request



0° and 180° version on request



Notes

Do not use plug gasket when fitting adapter. Other LED colors on request. Right-angle housing version with 10 mm pin spacing (DAR/DARU), on request. At **Art.-No. 3124871** and **3124121** polarity dependent.