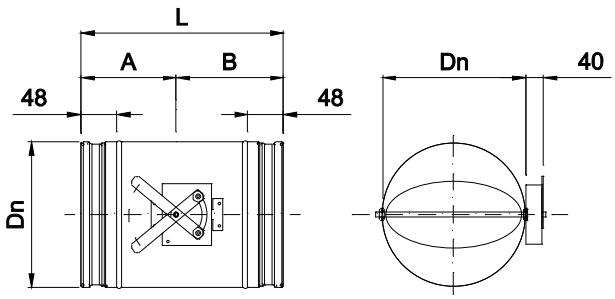
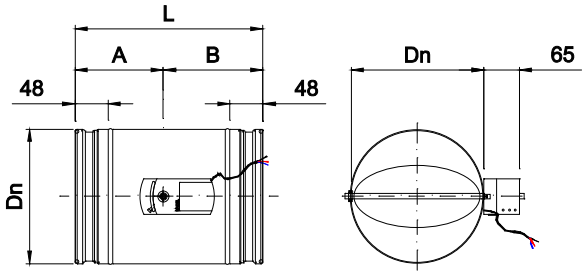
SCC clapets de réglage pour conduit circulaire

Les volets de la série **SCC** ont été conçus pour régler le débit et la pression dans les installations d'air, ventilation et chauffage. Étanchéité au passage de l'air. Volet pour montage en gaine circulaire.

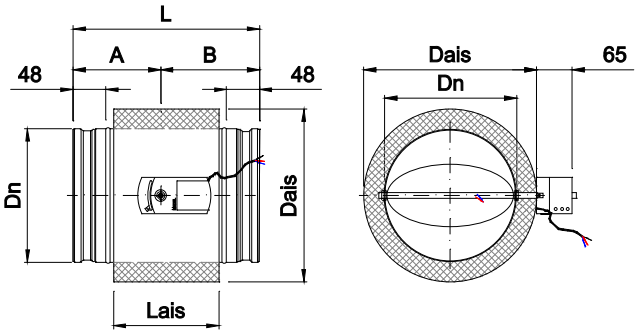
SCC-MA



SCC-MO



SCC-…/AIS/



D	Dn	Dais	L	Lais	A	B
100	98	178	265	150	105	160
125	123	203	265	150	105	160
150	148	228	265	150	105	160
160	158	238	265	150	105	160
200	198	278	295	180	130	165
250	248	328	335	220	145	190
315	313	393	345	230	155	190
355	353	433	400	285	180	220
400	398	433	420	305	190	230

CLASSIFICATION

SCC-R Clapet de réglage du débit de l'air.

SCC-E Clapet de réglage du débit de l'air étanche à connexion selon la norme EN-1506, avec joints en caoutchouc à double lèvre pour améliorer l'étanchéité de la connexion. Carcasse et lame étanches selon la norme EN-1751.

100 < D(Ø) <125 :
EN-1751 Carcasse Classe C, lame Classe 3

150 < D(Ø) <400 :
EN-1751 Carcasse Classe C, lame 4

.../MA/ Commande manuelle.
.../MO/ Axe pour motoriser.
…/AIS/ Isolé thermo-acoustiquement.

MATÉRIAUX

Carcasse et pelle fabriquées en acier galvanisé et joint d'étanchéité en caoutchouc.
Joints en EPDM.

Siemens GDB/GLB

Siemens GMA

Belimo LM/NM

Belimo LF/NF

SERVOMOTEURS

Servomoteurs ON/OFF

GDB141.1E 24 VAC/VDC 5N Siemens actuator.
GDB341.1E 100... 230 VAC 5N Siemens actuator.

LM24A 24 VAC/VDC 5N Belimo actuator.
LM230A 230 VAC 5N Belimo actuator.

Servomoteurs ON/OFF avec fin de course

GDB146.1E 24 VAC/VDV 5N 2FC Siemens actuator.
GDB346.1E 100...230 VAC 5N 2FC Siemens actuator.

LM24A-S 24 VAC/VDC 5N 1FC Belimo actuator (*)
LM230A-S 5N 1FC Belimo actuator (*)
** Servomoteurs Belimo avec un fin de course pour 2 contacts, à consulter.*

Servomoteurs ON/OFF à ressort de rappel

GMA121.1E 24 VAC/VDC 7N Siemens actuator.
GMA321.1E 230 VAC 7N Siemens actuator.

LF-24 24 VAC/VDC 4N Belimo actuator.
LF-230 230 VAC 4N Belimo actuator.

Servomoteurs proportionnels

GDB161.1E 24 VAC/VDC 5N Siemens actuator.

LM24A-SR 24 VAC/VDC 5N Belimo actuator.
LM230A-SR 230 VAC 5N Belimo actuator.

Servomoteurs avec communications

Consultez les modèles de servomoteurs avec protocoles de communication **Modbus / KNX / LonWorks** et **BACnet.**

TF

RDG 400

CO2-WP
CO2-WR

CO2-D

OS-360

CONTRÔLE DE TEMPÉRATURE

TF Thermostat à fils à changement mode froid/chaud manuel, pour contrôler la température d' 1 zone au moyen de clapets avec servomoteur On/Off .

RDG 400 Régulateur de température ambiance proportionnel 0 ... 10 Vcc aliment. 24vac avec affichage numérique rétroéclairé, sélecteur de confort/eco/arrêt, pour servomoteurs de clapet proportionnels.

CO2-WP Sonde de CO2 proportionnelle. Précise servomoteur proportionnel. Sonde/contoleur murale 24 vdc-vac. Lecture d'affichage LED. Sorties 0-10Vdc. Setpoint 600 - 800 -1000 ppm.

CO2-D Sonde de CO2 proportionnelle. Précise servomoteur proportionnel. Sonde à conduit 24 vdc-vac avec une sortie 0-10Vdc IP54.

CO2-WC Sonde de CO2 avec relais.Précise servomoteur ON / OFF. Sonde ambiance murale 24 vdc-vac. Lecture d'affichage LED. Sortie numérique (relais 5A). Setpoint 800 - 1000 -1200 ppm.

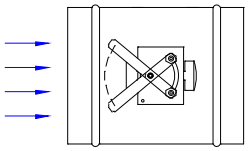
OS-360 Capteur de présence. Capteur de mouvement omnidirectionnel plafonnier pour le contrôle des éléments terminaux HVAC. Alimentation 24 Vac/Vdc. Sortie de contact inverseur configurable.

SYSTÈMES DE FIXATION

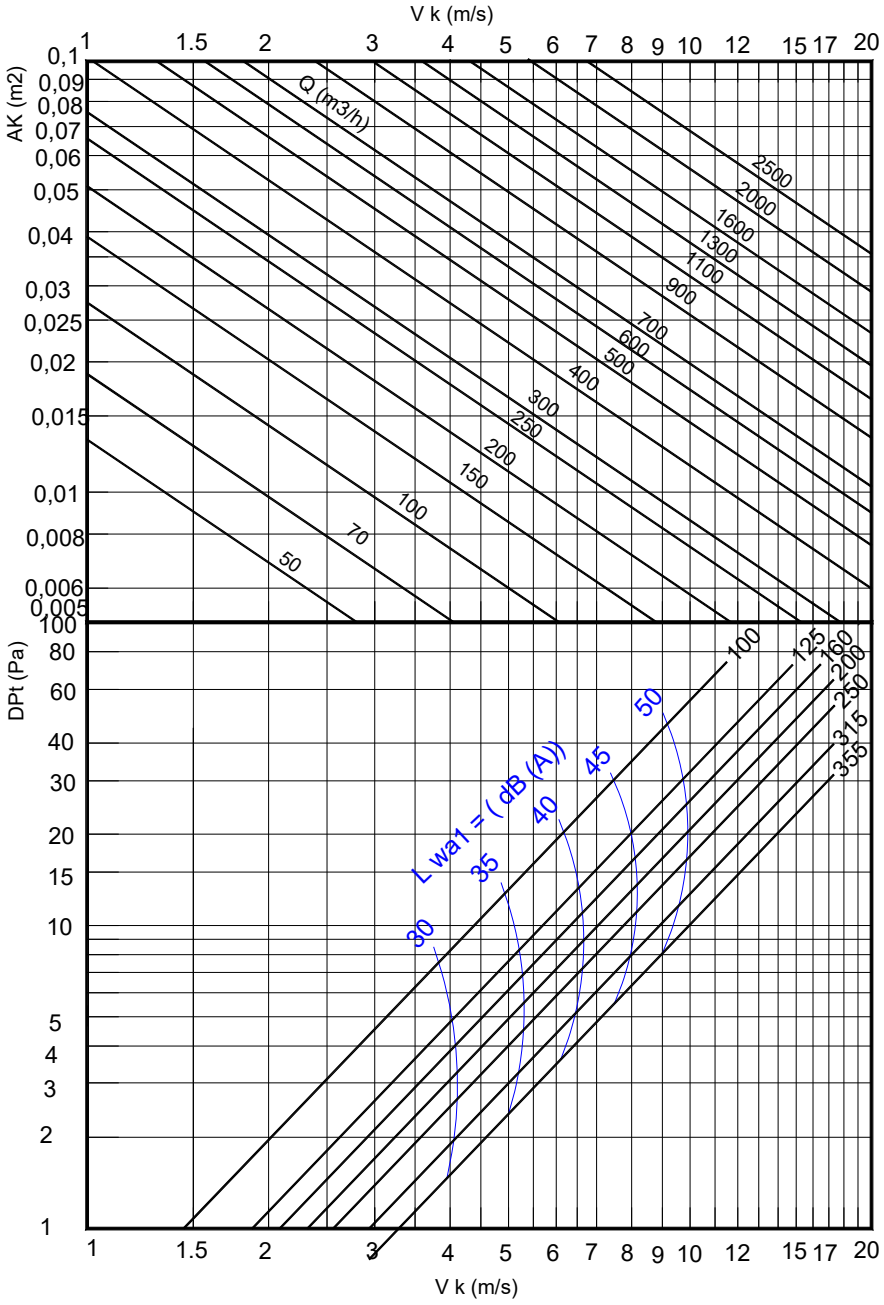
1) La carcasse du clapet est dessiné pour être installé dans les gaines circulaires selon norme EN-1506.

PRESCRIPTION

Fourniture et pose de clapet de réglage de débit étanche pour gaine circulaire avec commande manuelle série **SCC-MA diam. 100** à connexion selon norme EN-1506. Avec joints en caoutchouc à double lèvre pour améliorer l'étanchéité de la connexion. Clapet étanche selon la norme EN-1751. Carcasse Classe C, lame 3. Construite en acier galvanisé et coussinet en nylon.
Marque **MADEL**.



VITESSE DANS LE COU, PERDE DE CHARGE ET PUISSANCE SONORE.



SECTION DANS LE COL m2.

D	Ak(m2)
100	0,0078
125	0,0123
160	0,0201
200	0,0314
250	0,0491
315	0,0779
355	0,0962

VALEURS DE CORRECTION POUR DPt : Kp

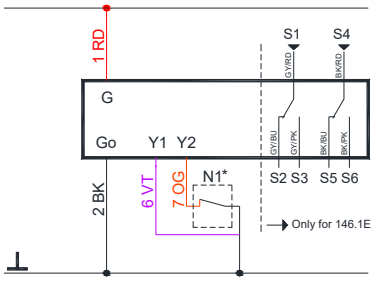
∝°	0°	15°	30°	45°	60°
Kp	1	1,5	8	20	140

$DPt' = Kp \times DPt$

ON/OFF – 3P CONTROL.

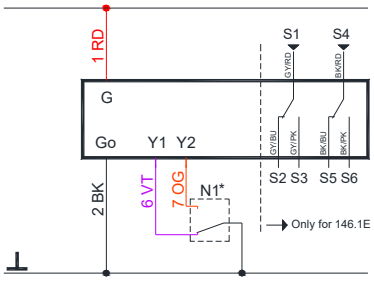
GDB 14..1E
Open-close, Single wire control

AC 24 V
DC 24 V ... 48 V ⋯



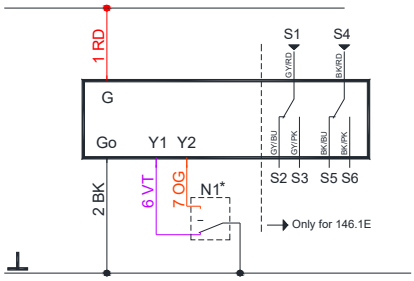
GDB 14..1E
Open-close, Two wire control

AC 24 V
DC 24 V ... 48 V ⋯



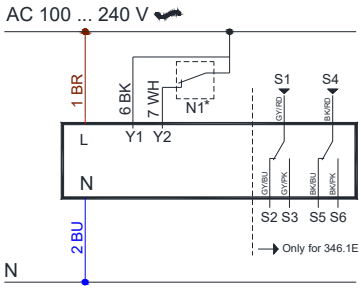
GDB 14..1E
Three-position control

AC 24 V
DC 24 V ... 48 V ⋯



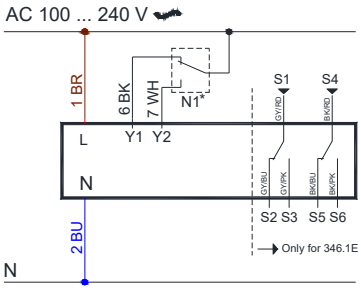
GDB 34..1E
Open-close, Single wire control

AC 100 ... 240 V



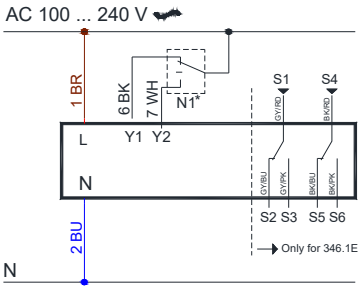
GDB 34..1E
Open-close, Two wire control

AC 100 ... 240 V



GDB 34..1E
Three-position control

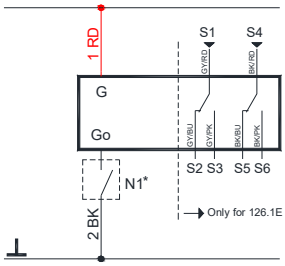
AC 100 ... 240 V



SPRING RETURN - ON/OFF – Two-position control

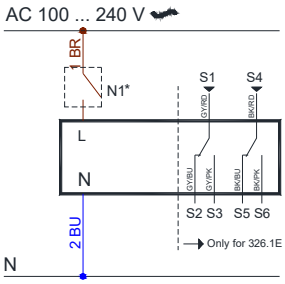
GMA 121.1E
Two-position control

AC 24 V
DC 24 V ... 48 V ⋯



GMA 321.1E
Two-position control

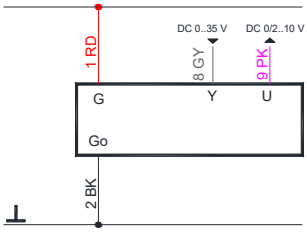
AC 100 ... 240 V



MODULATING control 0-10 V

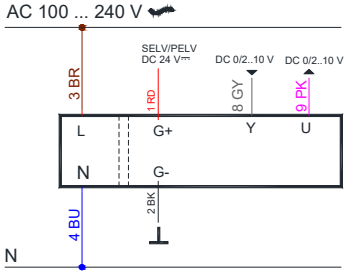
GDB 16..1E
Modulating control

AC 24 V
DC 24 V ... 48 V ⋯



GDB 36..1E
Modulating control

AC 100 ... 240 V



N1*. Accessory control. See wiring diagrams accessories.

Wiring	Code	Nº	Color	Description
Actuators AC 24 V⎓ DC 24..48V	G	1	RD Red	System potential 24 AC/DC
	G0	2	BK Black	System Neutral
	Y1	6	VT Purple	Positioning AC/DC 0V. CW
	Y2	7	OG Orange	Positioning AC/DC 0V. CCW
	Y	8	GY Grey	Signal in (0-10V)
	U	9	PK Pink	Signal out (0-10 V)
Actuators AC 230 V⎓	L	3	BR Brown	Line 100 .. 240 AC
	N	4	BU Blue	Neutral conductor
	Y1	6	BK Black	Positioning AC 230V. CW
	Y2	7	WH White	Positioning AC 230V. CCW
	G+	1	RD Red	Potential aux. 24 AC/DC
	G-	2	BK Black	Neutral aux. 24 AC/DC
	Y	8	GY Grey	Signal in (0-10V)
	U	9	PK Pink	Signal out (0-10 V)
Auxiliary contacts	Q11	S1	GY/RD	Input switch A
	Q12	S2	GY/BU	Contact NC switch A
	Q14	S3	GY/PK	Contact NO switch A
	Q21	S4	BK/RD	Input switch B
	Q22	S5	BK/BU	Contact NC switch B
	Q24	S6	BK/PK	Contact NO switch B

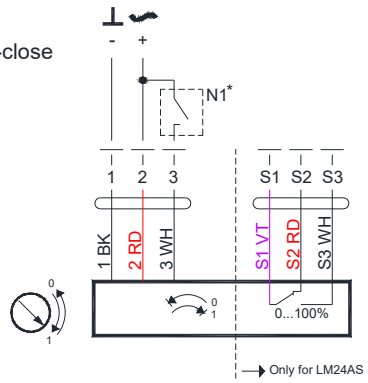
This information is provided by way of indication. Consult the manufacturer catalogue for all updated documentation.

https://www.buildingtechnologies.siemens.com/bt/global/en/products/HVAC-Products/Damper-actuators/Actuators-for-HVAC-applications/Pages/Actuators-for-HVAC-applications-default.aspx

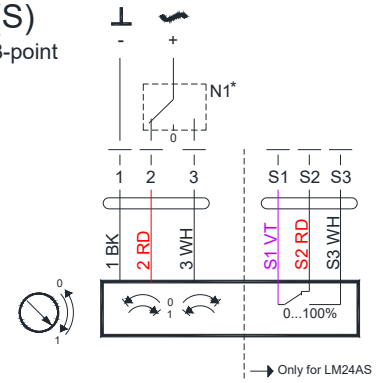
BELIMO Wiring diagrams

ON/OFF – 3P CONTROL.

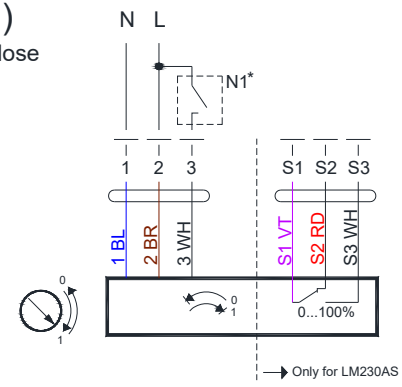
LM-24A..(S)
AC/DC 24 V, Open-close



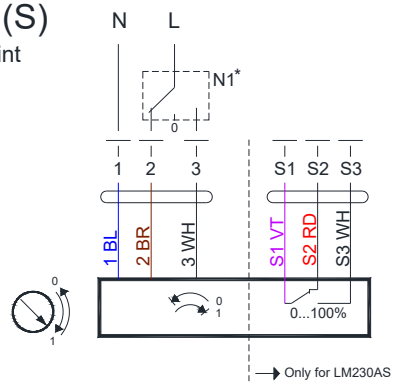
LM-24A..(S)
AC/DC 24 V, 3-point



LM-230A..(S)
AC 230 V, Open-close

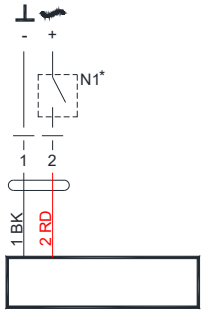


LM-230A..(S)
AC 230V, 3-point

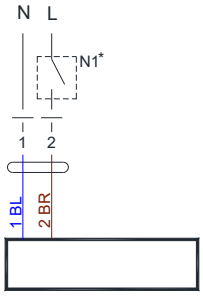


SPRING RETURN - ON/OFF – Two-position control

LF24
AC/DC 24 V, Open-close

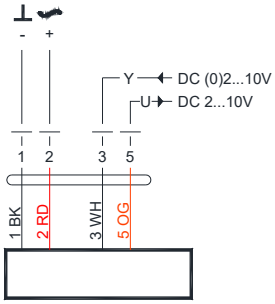


LF230
AC 230 V, Open-close

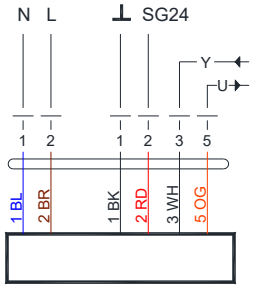


MODULATING control 0-10 V

LM24A-SR
AC/DC 24 V, modulating



LM230A-SR
AC 230 V, Open-close



N1*. Accessory control. See wiring diagrams accessories.

Wiring	Code	Nº	Color	Description
Actuators Open-close AC 24 V DC 24..48V	- +	1 2 3	BK Black RD Red WH White	System Neutral System potential 24 AC/DC Positioning AC/DC 0V.
Actuators modulating AC-DC 24 V AC 230V	- +	1 2 3 5	BK Black RD Red WH White OG Orange	System Neutral System potential 24 AC/DC Signal in (0) 2-10V Signal out 2-10V
Actuators AC 230 V	L N G+ G- Y U	1 2 1 2 3 5	BU Blue BR Brown BK Black RD Red WH White OG Orange	Line 100 .. 240 AC Neutral conductor Neutral aux. 24 AC/DC SG..24 Signal in (0-10V) Signal out (0-10 V)
Auxiliary contacts	S1 S2 S3	S1 S2 S3	VT Violet RD Red WH White	Input switch A Contact NC switch A Contact NO switch A

This information is provided by way of indication. Consult the manufacturer catalogue for all updated documentation.

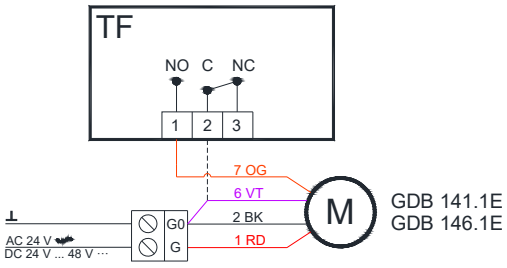
http://www.belimo.ch/CH/EN/PDF/index.cfm

TF Wiring diagrams

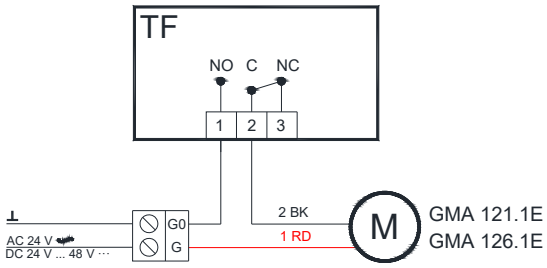
TF + SIEMENS actuators

AC/DC 24 V - ON/ OFF control

GDB 141/146.1E

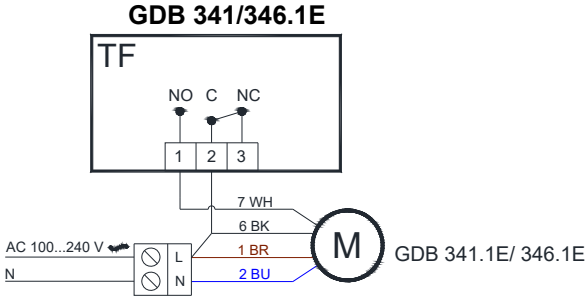


GMA 121/126.1E

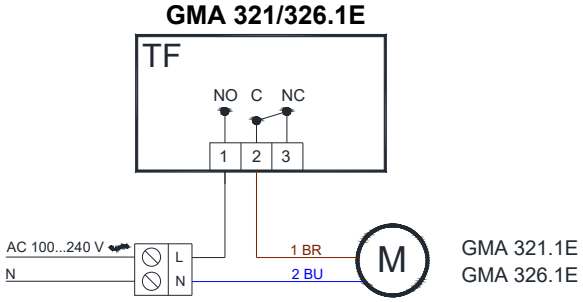


AC 230 V - ON/ OFF control

GDB 341/346.1E



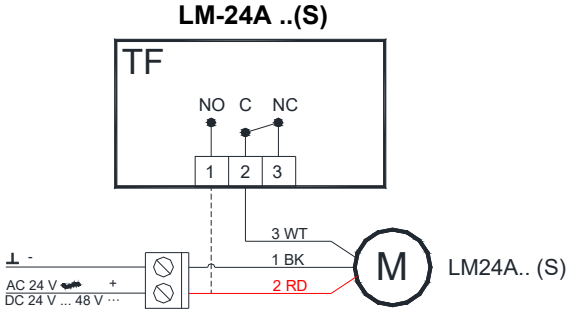
GMA 321/326.1E



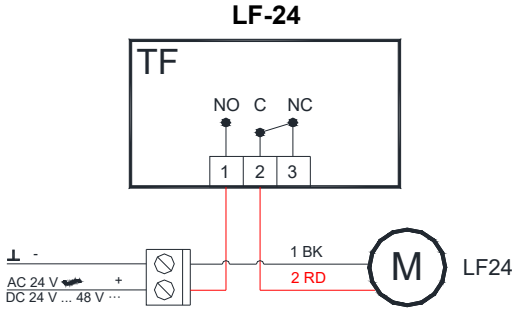
TF + BELIMO actuators

AC/DC 24 V - ON/ OFF control

LM-24A ..(S)

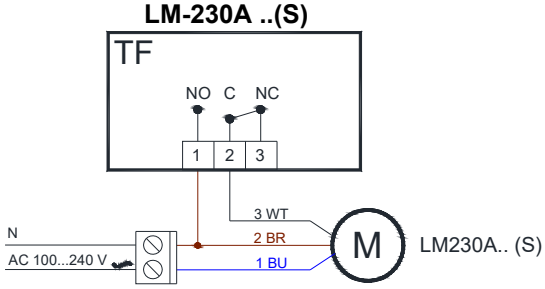


LF-24

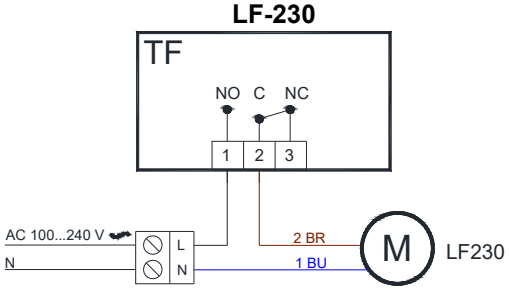


AC 230 V - ON/ OFF control

LM-230A ..(S)



LF-230

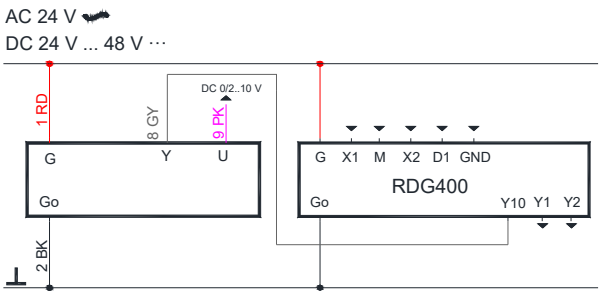


RDG400 Wiring diagrams

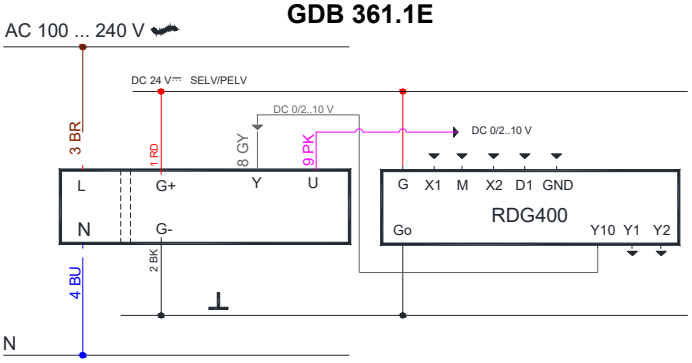
RDG 400 + SIEMENS actuators

Modulating control + manual changeover

GDB 161.1E



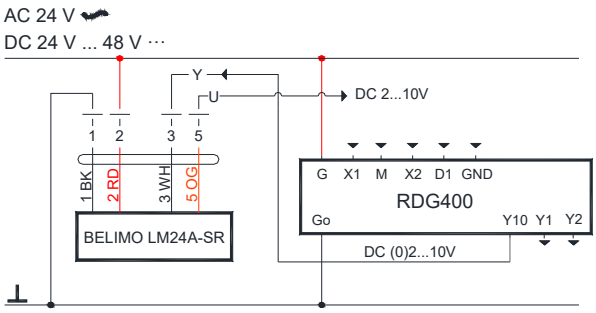
GDB 361.1E



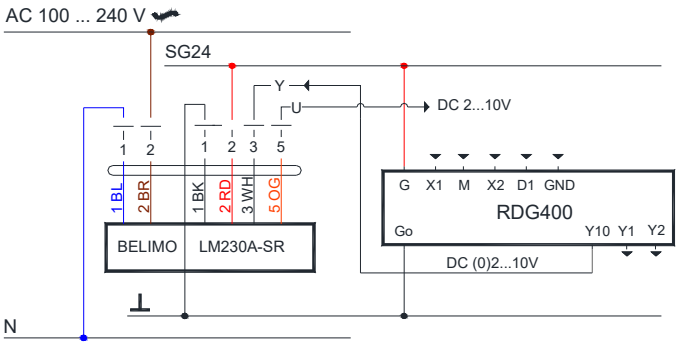
RDG 400 + BELIMO actuators

Modulating control + manual changeover

LM-24A -SR



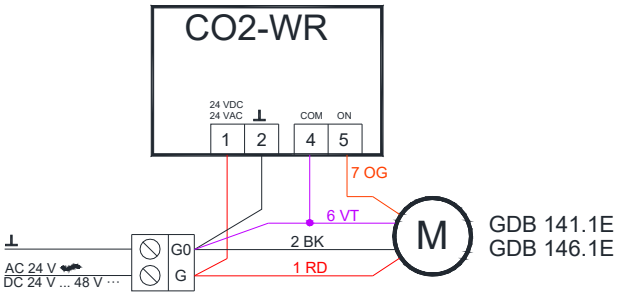
LM230A-SR



CO2-WR Wiring diagrams

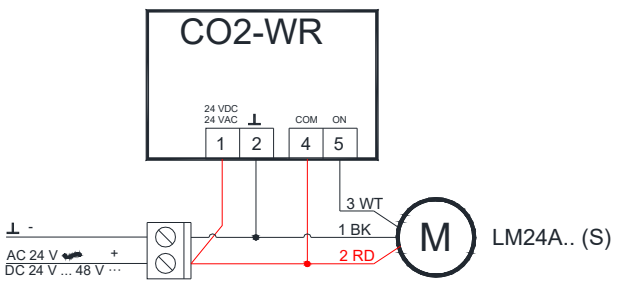
CO2-WR+ SIEMENS GDB 141.1E

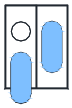
On/OFF control



CO2-WR+ BELIMO LM24A.. (S)

On/OFF control





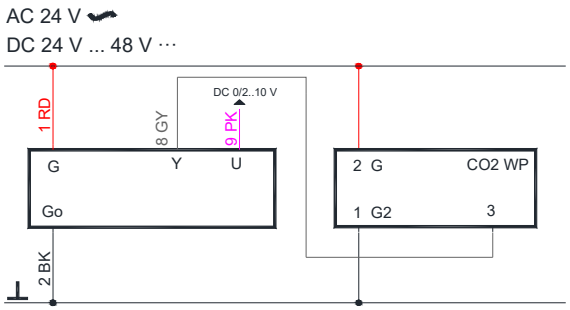
	J4	J5	Relay
800 ppm	disconnected	disconnected	CO2> 900 ppm. Relay ON; CO2 < 700 ppm Relay OFF
1000 ppm	connected	disconnected	CO2> 1100 ppm. Relay ON; CO2 < 900 ppm Relay OFF
1200 ppm (default)	disconnected	connected	CO2> 1200 ppm. Relay ON; CO2 < 1100 ppm Relay OFF
1400 ppm	connected	connected	CO2> 1500 ppm. Relay ON; CO2 < 1300 ppm Relay OFF

CO2-WP Wiring diagrams

CO2-WP + SIEMENS actuators

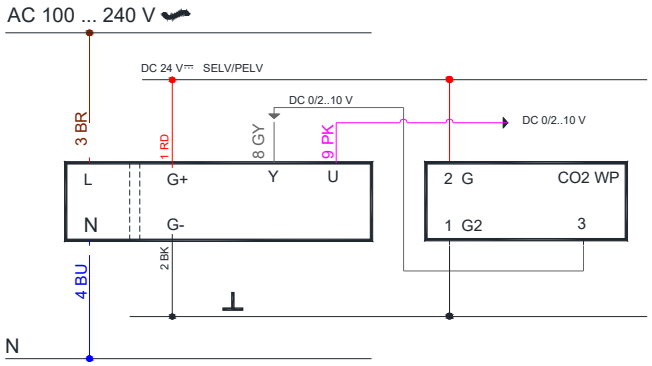
AC/DC 24 V – Modulating control

GDB 161.1E



AC 230 V – Modulating control

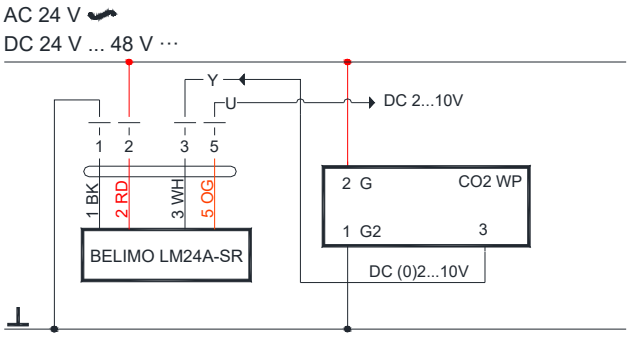
GDB 361.1E



CO2-WP + BELIMO actuators

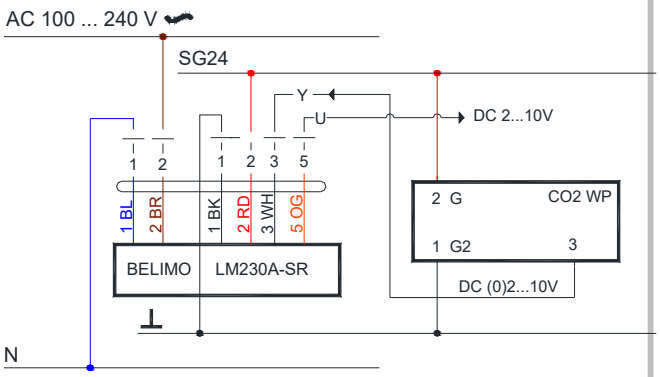
AC/DC 24 V – Modulating control

LM24A-SR

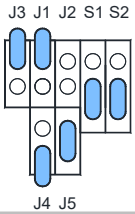


AC 230 V – Modulating control

LM230A - SR



CO2-WP Setting



	J1	J2
0-10 VDC(default)	disconnected	disconnected
2-10 VDC	connected	disconnected

	J3
PID out put (default)	disconnected
Linear output	connected

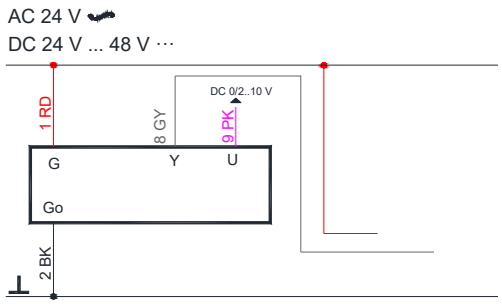
	J4	J5
350 ppm	disconnected	disconnected
500 ppm	connected	disconnected
800 ppm (default)	disconnected	connected
1200 ppm	connected	connected

CO2-D Wiring diagrams

CO2-WD + SIEMENS actuators

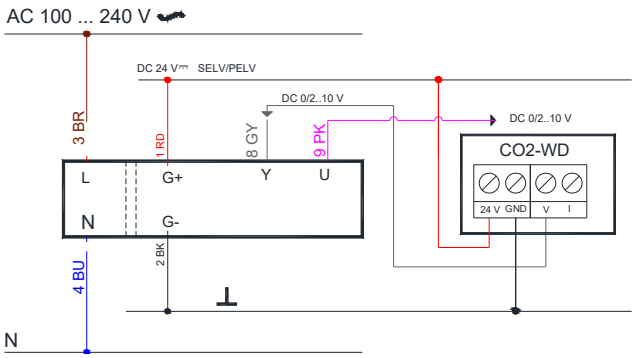
AC/DC 24 V – Modulating control

GDB 161.1E



AC 230 V – Modulating control

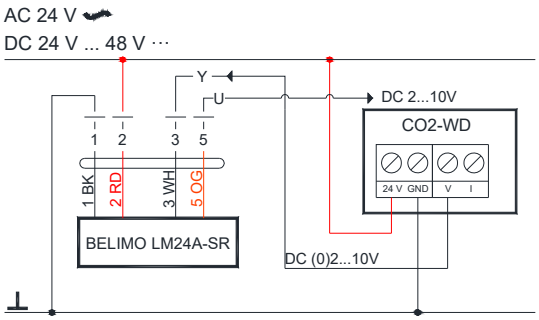
GDB 361.1E



CO2-WD + BELIMO actuators

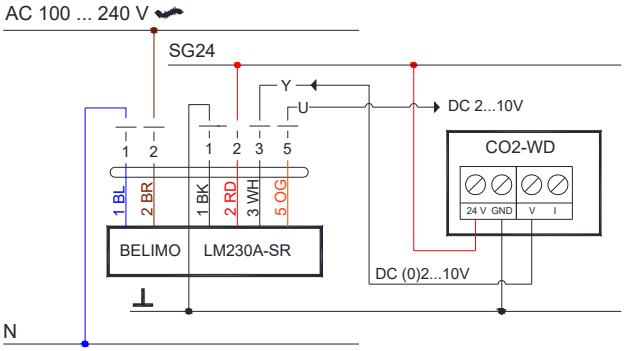
AC/DC 24 V – Modulating control

LM24A-SR



AC 230 V – Modulating control

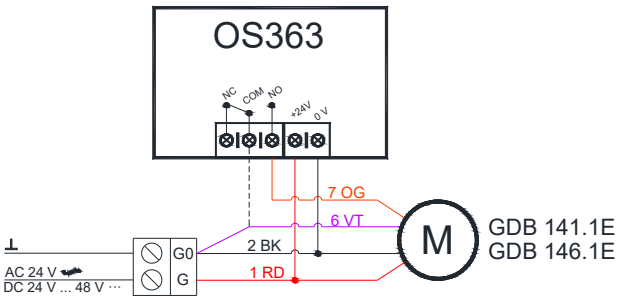
LM230A - SR



OS-360 Wiring diagrams

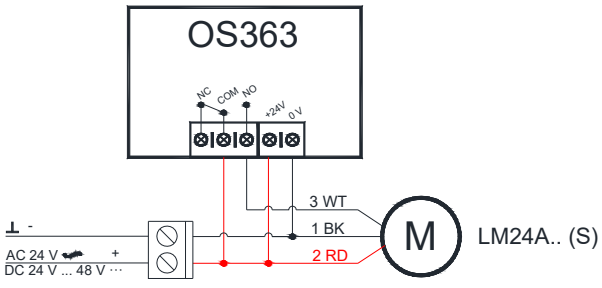
OS360+ SIEMENS GDB 141.1E

On/OFF control

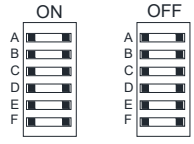


OS360+BELIMO LM24A.. (S)

On/OFF control



DELAY SETTING



	A	B	C	D	E	F
ON	0 sec	10 sec	30 sec	1 min	5 min	10 min
OFF	10 sec	1 min	5 min	10 min	20 min	30 min