



SQN70... / SQN71...



SQN74... / SQN75...



Actuators

SQN7...

Reversible electromotoric actuators for air dampers and valves of oil or gas burners of small to medium capacity.

The SQN7... and this Data Sheet are intended for use by OEMs which integrate the actuators in their products!

Use and features

The SQN7... actuators are designed for driving gas or air dampers of oil or gas burners of small to medium capacity, for load-dependent control of the fuel and combustion air volume:

- In connection with P-PI or PID controllers, such as the RWF40...
- Directly via the different types of burner controls, such as LFL..., LME..., LMG..., LMO..., LOA...
- In connection with 1- or 2-wire control or 3-position controllers

- All types of actuators feature:
 - Impact-proof and heat-resistant plastic housings
 - Screw terminals for the electrical connections
 - Maintenance-free gear train, which can be disengaged
 - Internal position indication
 - Easy-to-adjust end and auxiliary switches for adjusting the switching points
 - Integrated electronic circuits
- Holding torque:
 - SQN70... / SQN71... / SQN75... 0.7...1.3 Nm
 - SQN74... 0.7 Nm
- Running time:
 - SQN70... / SQN71... / SQN75... 4...30 s
 - SQN74... 4 s
- Direction of rotation:
 - SQN70... / SQN74... counterclockwise
 - SQN71... / SQN75... clockwise
- SQN74... / SQN75...
 - Fixing holes and cable entries
 - Equivalent to actuators of the same category made by Conectron and Berger

Warning notes



To avoid injury to persons, damage to property or the environment, the following warning notes should be observed!

Do not interfere with or modify the actuators!

- All activities (mounting, installation and service work, etc.) must be performed by qualified staff
- Before making any wiring changes in the connection area, completely isolate the plant from mains supply (all-polar disconnection). Ensure that the plant cannot be inadvertently switched on again and that it is indeed dead. If not observed, there is a risk of electric shock hazard
- Ensure protection against electric shock hazard by providing adequate protection for the connection terminals and by securing the housing cover
- Each time work has been carried out (mounting, installation, service work, etc.), check to ensure that wiring is in an orderly state
- Fall or shock can adversely affect the safety functions. Such actuators must not be put into operation, even if they do not exhibit any damage

Mounting notes

- Ensure that the relevant national safety regulations are complied with

Standards and certificates



Conformity to EEC directives

- Electromagnetic compatibility EMC (immunity)
- Low-voltage directive

2004/108/EC
2006/95/EC



ISO 9001: 2000
Cert. 00739



ISO 14001: 2004
Cert. 38233



Only valid for
SQN70.xxxRxx
SQN71.xxxRxx

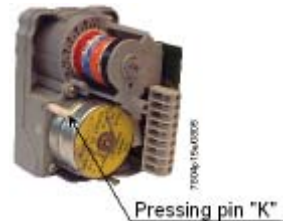
Disposal notes



The actuators contain electrical and electronic components and must not be disposed of together with household waste.
Local and currently valid legislation must be observed.

Mechanical design

Housing	- Made of impact-proof and heat-resistant plastic - The housing accommodates: – The reversible synchronous motor with gear train, which can be disengaged – The camshaft of the control section – The relays, depending on the type of actuator – The switches, connected to the terminals via the printed circuit board Color: SQN70... / SQN71...: Gear train housing dark-grey, cover light-grey SQN74... / SQN75...: Gear train housing black, cover black
Drive motor	- Reversible and locking-proof synchronous motor
Coupling	- Drive shaft can be manually disengaged from the gear train and motor (by pressing pin «K») - Automatic reengagement
Adjustment of switching points	- By means of adjustable cams - Scales beside the cams indicate the angle of the switching point - Assignment of cams to the end and auxiliary switches is color-coded (refer to «Connection diagrams») - Some of the cam feature fine adjustment; they can be adjusted with a standard screwdriver - The other cams can be adjusted manually or with the enclosed hook-spanner or a similar tool
Position indication	- Internally: Scale at the beginning of the camshaft on the gear train side
Electrical connections	- Refer to «Technical data»
Gear train	- Maintenance-free
Drive shaft	- Made of black-finished steel - Ready fitted to the front of the gear train - Different versions available
Mounting and fixing	- Front of the gear train is used as the mounting surface - Actuator is secured via through-holes



Special versions for fitting potentiometer

Fitting a potentiometer	Certain types of actuators are supplied ready prepared for fitting a potentiometer. These actuators differ from the basic type only in that the cover is higher. They are prepared for housing the potentiometer. Accessories are not required. With these types of actuators, the third digit after the dot in the actuator's type reference is an «8». Example: SQN7x.xx8Axx → version for fitting a potentiometer, mounted higher cover AGA34 With the other types of actuators which are suited for fitting a potentiometer, the higher cover AGA34 must be ordered (refer to «Ordering»). The required type of potentiometer is to be ordered as a separate item (refer to «Ordering»).
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Type summary (other types of actuators available on request)

Diagram	Drive shaft 1)	Running time 2) for 90°	Nominal torque 6) (max.)	Holding torque	AS 7)	Relay	Pot. 9) 10)	Length of housing 1)	Types for mains voltage / mains frequency		SQN7... replaces
No.	No.	s	Nm	Nm	pcs.	pcs.		mm	AC 230 V 4) +10 % -15 % 50...60 Hz	AC 115 V 3) +10 % -15 % 50...60 Hz	type
Actuators SQN70... / counterclockwise rotation 8)											
2	0	4	1.5	0.7	2	2	---	117	SQN70.224A20	---	---
4	0	4	1.5	0.7	2	3	---	117	SQN70.244A20	---	SQN30.121A2700
6	0	4	1.5	0.7	2	---	10)	80	SQN70.264A20	---	SQN30.101A2700
9	0	4	1.5	0.7	2	1	---	117	SQN70.294A20	---	SQN30.111A2700
2	0	6	1.5	0.7	2	2	---	117	SQN70.324A20	---	SQN30.151A2700
2	0	12	2.5	1.2	2	2	---	117	SQN70.424A20	---	---
5	0	12	2.5	1.2	2	3	---	117	SQN70.454A20	---	---
6	0	12	2.5	1.2	2	---	10)	80	SQN70.464A20	---	---
6	3	12	2.5	1.2	2	---	10)	80	SQN70.464A23	---	---
2	0	30	2.5	1.3	2	2	---	117	SQN70.624A20	---	---
6	0	30	2.5	1.3	2	---	10)	80	SQN70.664A20	---	SQN30.401A2700
6	3	30	2.5	1.3	2	---	10)	80	SQN70.664A23	---	SQN30.401A2730
Actuators SQN70... / counterclockwise rotation 8) / UL «Registered» for use in U.S. and Canada											
0	0	30	2.5	1.3	1	---	10)	80	---	SQN70.603R10	---
Actuators SQN71... / clockwise rotation 8)											
4	0	4	1.5	0.7	2	2	---	117	SQN71.244A20	---	SQN31.121A2700
6	0	4	1.5	0.7	2	---	10)	80	SQN71.264A20	---	SQN31.101A2700
2	0	12	2.5	1.2	2	2	---	117	SQN71.424A20	---	---
4	0	12	2.5	1.2	2	2	---	117	SQN71.444A20	---	---
5	0	12	2.5	1.2	2	3	---	117	SQN71.454A20	---	---
6	1	12	2.5	1.2	2	---	10)	80	SQN71.464A21	---	---
2	3	30	2.5	1.3	2	2	---	117	SQN71.624A23	---	---
6	0	30	2.5	1.3	2	---	10)	80	SQN71.664A20	SQN71.664A10	SQN31.401A2700
6	3	30	2.5	1.3	2	---	9)	117	SQN71.669A23	---	---
9	0	30	2.5	1.3	2	1	---	117	SQN71.694A20	---	---
Actuators SQN71... / clockwise rotation 8) / UL «Registered» for use in U.S. and Canada											
0	9	4	1.5	0.7	1	---	10)	80	---	SQN71.203R19	---
0	9	12	2.5	1.2	1	---	10)	80	---	SQN71.403R19	---
0	0	30	2.5	1.3	1	---	10)	80	---	SQN71.603R10	---
0	9	30	2.5	1.3	1	---	10)	80	---	SQN71.603R19	---
0	0	30	2.5	1.3	1	---	9)	84	---	SQN71.608R10 5)	---
0	0	30	2.5	1.3	1	---	9)	84	SQN71.608R20 5)	---	---

The UL-registered types of actuators

- also meet CE requirements
- are of the same basic design as the equivalent standard types

The only difference between the standard versions and the UL-registered versions is the use of other materials, especially plastics. In addition, the UL-registered versions are supplied complete with an adapter for use in the U.S. and Canada (refer to «Dimensions»).

Type summary / cont'd (other types of actuators available on request)

Diagram	Drive shaft 1)	Running time 2) for 90°	Nominal torque 6) (max.)	Holding torque	AS 7)	Relay	Pot. 9) 10)	Length of housing 1)	Types for mains voltage / mains frequency		SQN7... replaces
No.	No.	s	Nm	Nm	pcs.	pcs.		mm	AC 230 V 4) +10 % -15 % 50...60 Hz	AC 115 V 3) +10 % -15 % 50...60 Hz	type
Actuators SQN74... / counterclockwise rotation 8)											
5	1	4	1.5	0.7	4	3	9)	115	SQN74.254A21	---	---
9	1	4	1.5	0.7	2	1	9)	115	SQN74.294A21	---	---
9	1	30	2.5	1.3	2	1	9)	115	SQN74.694A21	---	---
Actuators SQN75... / clockwise rotation 8)											
2	1	4	1.5	0.7	2	2	---	115	SQN75.224A21	---	---
2	6	4	1.5	0.7	4	2	---	115	SQN75.224A26	---	---
3	1	4	1.5	0.7	4	2	---	115	SQN75.236A21	---	---
4	1	4	1.5	0.7	2	3	---	115	SQN75.244A21	---	---
4	6	4	1.5	0.7	2	3	---	115	SQN75.244A26	---	---
9	1	4	1.5	0.7	2	1	9)	115	SQN75.294A21	---	---
9	1	4	1.5	0.7	4	1	9)	115	SQN75.294A26	---	---
F	1	4	1.5	0.7	4	2	---	115	SQN75.2F6A21	---	---
F	1	12	2.5	1.2	4	2	---	115	SQN75.4F6A21	---	---
2	1	12	2.5	1.2	2	2	---	115	SQN75.424A21	---	---
4	1	12	2.5	1.2	2	3	---	115	SQN75.444A21	---	---
9	1	12	2.5	1.2	2	1	9)	115	SQN75.494A21	---	---
2	6	23	2.5	1.2	4	2	---	115	SQN75.524A26	---	---
K	1	30	2.5	1.3	2	---	9)	115	SQN75.6K4A21	SQN75.6K4A11	---
2	6	30	2.5	1.3	2	2	---	115	SQN75.624A26	---	---
6	6	30	2.5	1.3	4	---	9)	115	SQN75.664A26	---	---
9	1	30	2.5	1.3	2	1	9)	115	SQN75.694A21	---	---

Legend

- 1) Refer to «Dimensions»
- 2) At 60 Hz, running times are about 20 % shorter
- 3) AC 115 V +10 % / -15 % possible, but in the case of undervoltage, torque is reduced by about 20 %
- 4) AC 230 V +10 % / -15 % possible, but in the case of undervoltage, torque is reduced by about 20 %
- 5) On request
- 6) Under nominal conditions; under extreme conditions (e.g. +60 °C, AC 230 V –15 %) approx. –25 %
- 7) Auxiliary switches (in addition to the 2 end switches)
- 8) When facing the drive shaft and when control voltage is supplied to end switch I
- 9) Suited for direct fitting of potentiometer (refer to «Fitting a potentiometer»)
- 10) Suited for fitting potentiometer. Cover AGA34 to be ordered as a separate item

Actuator

refer to «Type reference»

Potentiometer ASZ...

refer to Data Sheet N7921
refer to Mounting Instruction M7921



Mounting kit

AGA70.3

- For mounting the SQN70... / SQN71... in place of the SQN3...
- Fitted to the SQN70... / SQN71... with a self-tapping screw (included as standard)



Cover

AGA34

- For SQN70... / SQN71... backfitting with potentiometer ASZxx.3x

Technical data

General actuator data

Actuator	Mains voltage	AC 230 V –15 % +10 % AC 115 V –15 % +10 %
	Mains frequency	50...60 Hz ±6 %
	Drive motor	Synchronous motor
	Power consumption	6 VA
	Angular adjustment	Max. 160°, scale range 0...130°
	Mounting position	Optional
	Degree of protection	
	- All types	IP40 to DIN 40050, provided adequate cable entries and fixing screws are used
	- SQN74... / SQN75...	IP20 to DIN 40050, provided lateral knock-out hole for cable is used
	Safety class	
	- SQN70... / SQN71...	II to DIN EN 60730
	- SQN74... / SQN75...	I to DIN EN 60730
	Cable entry	
	- SQN70... / SQN71...	Insertable threaded cable gland holder for 2 x Pg9, no locknut required
	- SQN74... / SQN75...	Openings for locknut for fixing cable glands
		Type of locknut
	1 x Pg9	M Pg9 DIN 46320 MS
	1 x Pg11	M Pg11 DIN 46320 MS
		Additional lateral knockout hole for loose introduction of 2 cables with a maximum dia. of 6 mm, cable strain relief to be provided by the user (also refer to «Degree of protection») Pg glands and locknuts are not part of the delivery
	Cable connections	Screw terminals for min. 0.5 mm ² and max. 2.5 mm ² cross-sectional area
	Ferrules	Matching the dia. of the stranded wire
	Direction of rotation	Refer to «Type summary»
	Nominal and holding torque	Refer to «Type summary»
	Running times	Refer to «Type summary»
	Weight (average)	Approx. 500 g
	On time	60 % max. 3 min. continuous operation
	Backlash between drive motor and drive shaft	
	- As supplied	≤1.2° ±0.3°
	- After 250,000 cycles	≤1.5° ±0.3°

End and auxiliary switches

Number of end switches	2
Number of auxiliary switches	Refer to «Type summary»
Actuation	Via camshaft, color-coded cams (refer to «Connection diagrams») Switches with fine adjustment - SQN70... / SQN71... : II and III - SQN74... / SQN75... : III and IV
Breaking voltage	AC 24...250 V
Adjustment of cams	
- Without fine adjustment	1°
- With fine adjustment	Infinitely
Perm. amperage at $\cos \varphi = 0.9$: (values in parentheses: short-time peaks for max. 0.5 s)	
• Connection diagram ①	
– Terminals 1, 2, 3, 4	0.5 A
– Terminals 5, 6, 7	1 A (7 A)
• Connection diagram ①	
– Terminals 1, 2, 6, 7	0.5 A
– Terminals 3, 4	1 A (7 A)
• Connection diagram ②	
– Terminals 1, 2, 3, 8	0.5 A
– Terminal 4, 5	2 A (14 A)
– Terminal 6, 7	1 A (7 A)
• Connection diagram ③	
– Terminals 1, 2, 3, 8, 11	0.5 A
– Terminals 4, 5, 7, 10	1 A (7 A)
• Connection diagram ④	
– Terminals 1, 3, 8	0.5 A
– Terminal 4, 5	3 A (14 A)
– Terminal 6, 7	1 A (7 A)
• Connection diagram ⑤	
– Terminals 1, 2, 3, 8	0.5 A
– Terminal 4, 5	2 A (14 A)
– Terminal 6, 7	1 A (7 A)
• Connection diagram ⑥	
– Terminals 1, 2, 3, 4, 5	0.5 A
– Terminal 6, 7, 8	1 A (7 A)
• Connection diagram ⑨	
– Terminals 1, 2, 3, 4, 5, 8	0.5 A
– Terminal 6, 7	1 A (7 A)
• Connection diagram ⑦	
– Terminals 2...7	0.5 A
– Terminals 1, 8, 9	1 A (7 A)
• Connection diagram ⑧	
– Terminals 1, 2	0.5 A
– Terminals 3, 4, 5, 6, 7, 8	1 A (7 A)

Technical data (cont'd)

Environmental conditions	Storage	DIN EN 60721-3-1
	Climatic conditions	Class 1K3
	Mechanical conditions	Class 1M2
	Temperature range	-20...+60 °C
	Humidity	<95 % r.h.
	Transport	DIN EN 60721-3-2
	Climatic conditions	Class 2K2
	Mechanical conditions	Class 2M2
	Temperature range	-50...+60 °C
	Humidity	<95 % r.h.
	Operation	DIN EN 60721-3-3
	Climatic conditions	Class 3K5
	Mechanical conditions	Class 3M2
	Temperature range	-20...+60 °C
	Humidity	<95 % r.h.



Condensation, formation of ice and ingress of water are not permitted!

Function

A synchronous motor drives the camshaft via a gear train. The camshaft actuates the end and auxiliary switches. Using the associated cam, the switching position of each end and auxiliary switch can be adjusted within the working range. Some of the actuator versions are equipped with electronic modules, which perform auxiliary functions in connection with the end and auxiliary switches, or with external devices, such as controllers (refer to «Connection diagrams»). The functions and technical data of both lines of actuators SQN70... / SQN71... and SQN74... / SQN75... are nearly identical.

Replacement of
SQN30... / SQN31...

The «Type summary» contains actuators type **SQN3...**, which can be replaced by SQN70... / SQN71... with the help of a mounting kit (refer to «Ordering»).

The **SQN30...** and **SQN31...** contained in the «Type summary»

- Refer to the SQN7... AC 230 V versions
- are versions **with no** facility for fitting a potentiometer (refer to Data Sheet N7808)

Mechanical adaptations are not normally required.

To be noted are the different terminal assignments used with the 2 lines of actuators.

Connection diagrams

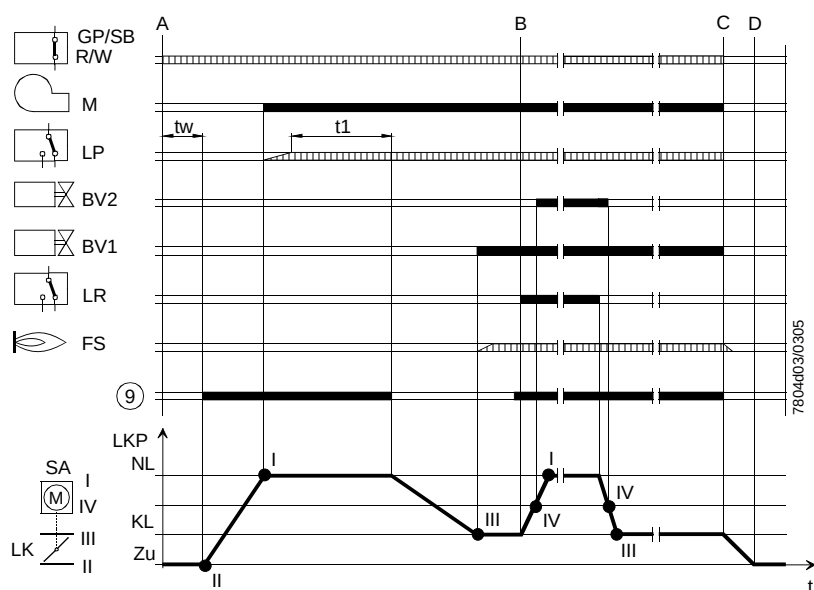
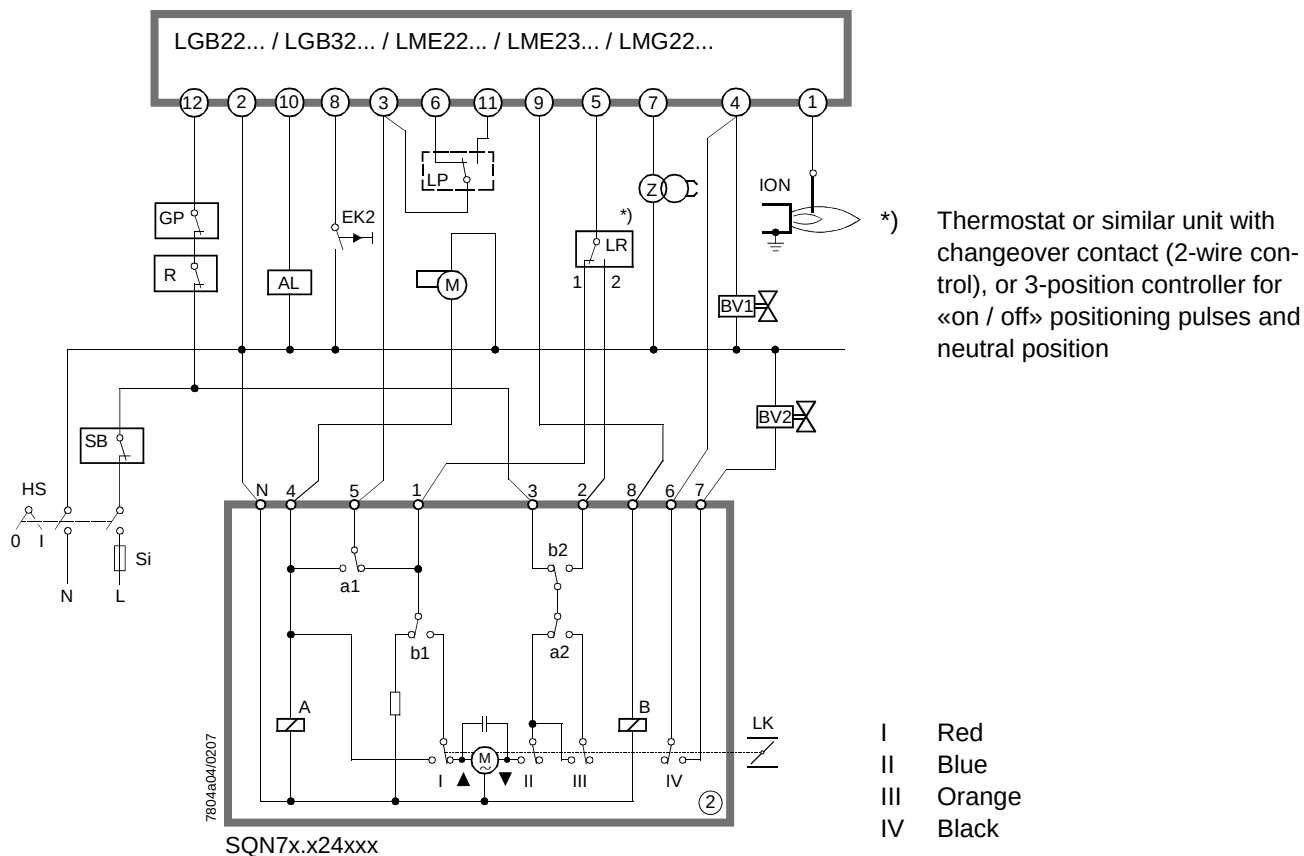


The following connection diagrams show the start position as supplied:

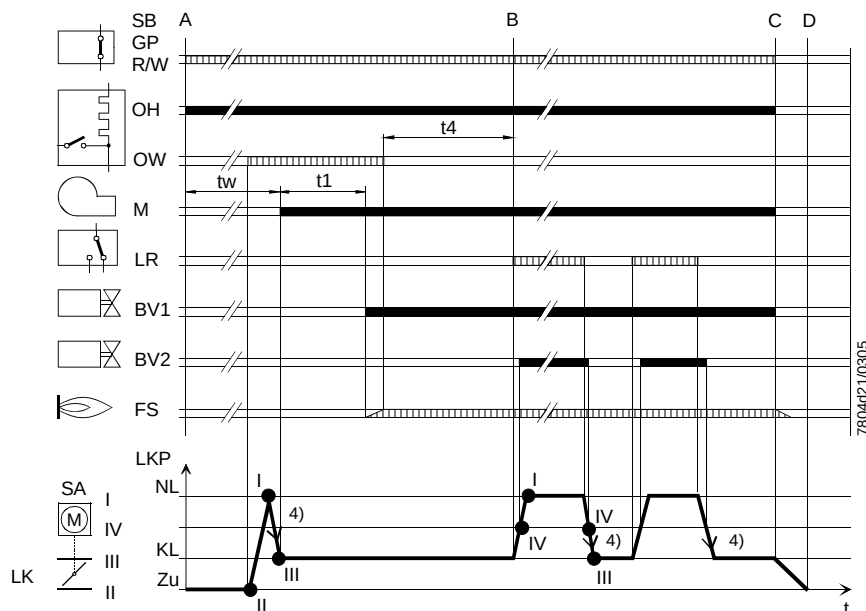
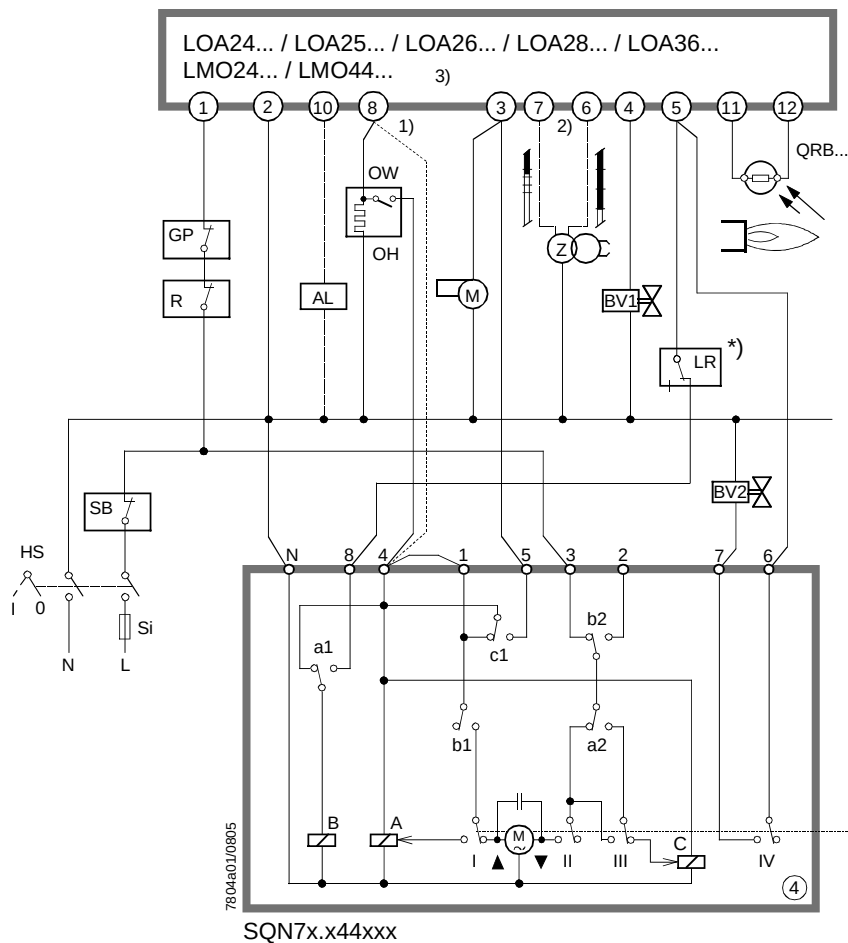
- End switch position II «Closed»
- Dead

No. ② → LGB22... / LGB32... / LME22... / LME23... / LMG22...

2-stage or modulating operation → prepurging at nominal load position «NL»



2-stage operation → prepurging at low-fire position «KL»

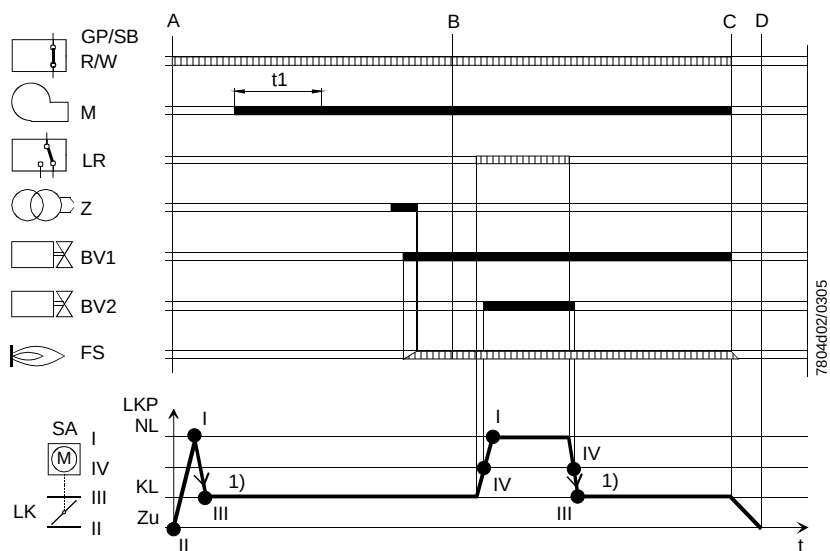


- 4) Required position is approached from only one side to eliminate switching differential (compensation of backlash)

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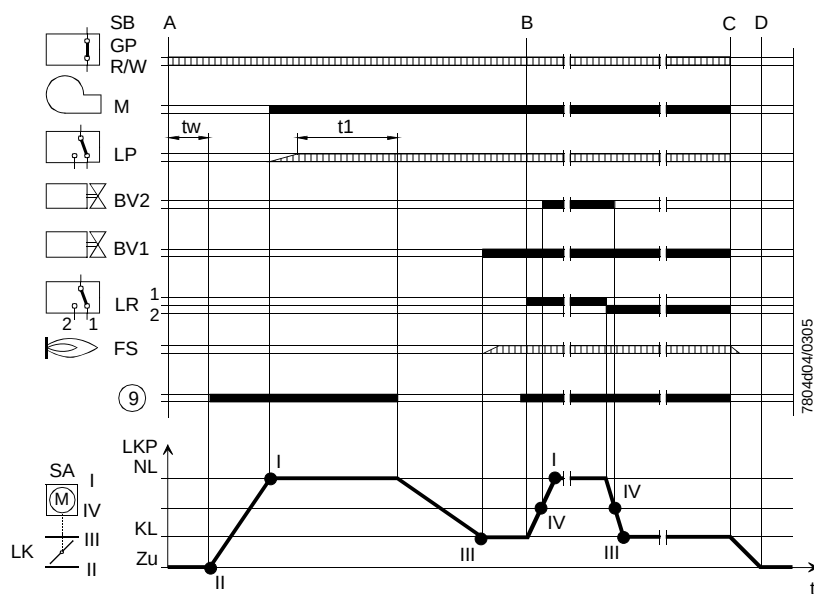
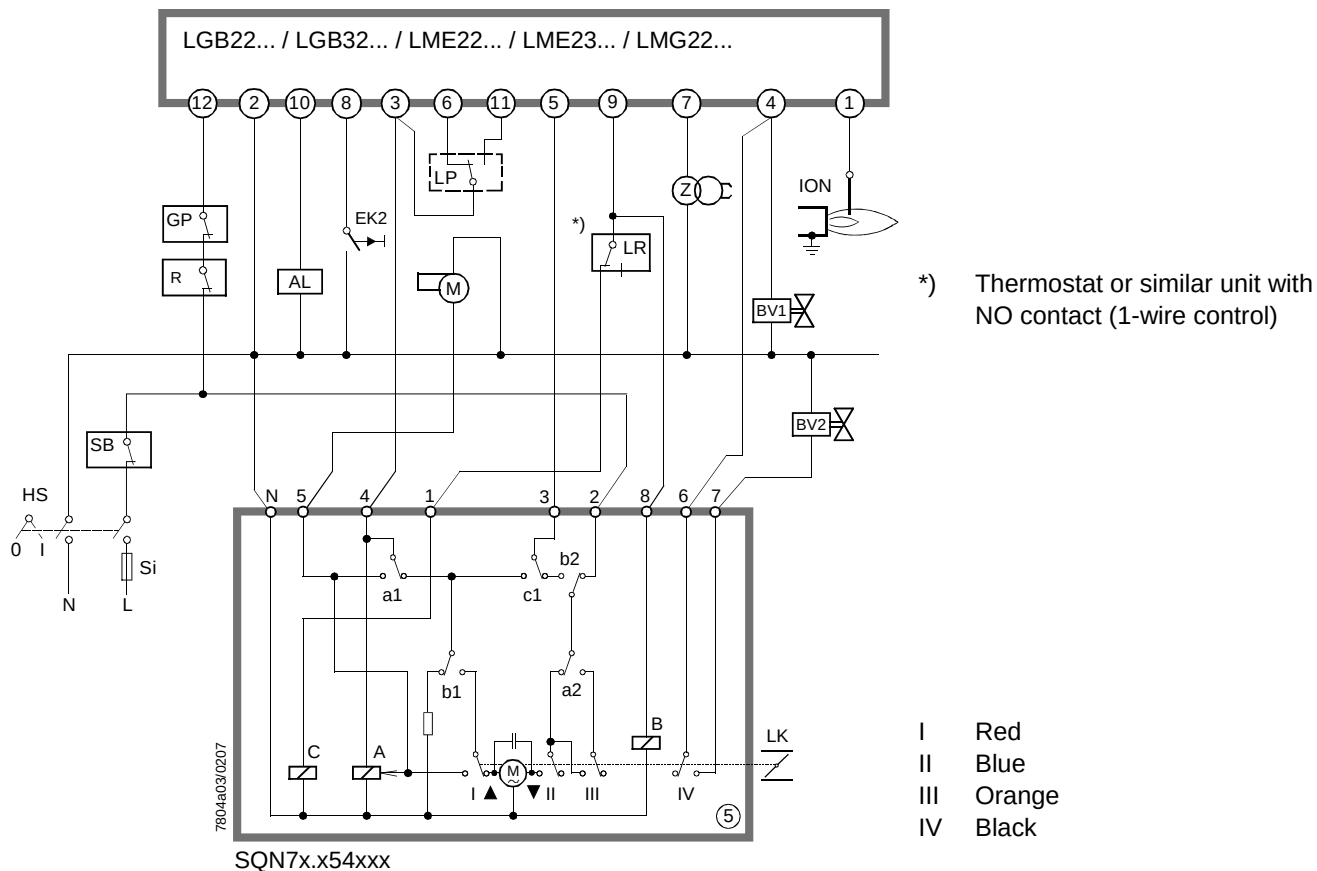
*) Thermostat or similar unit with NO contact (1-wire control)

I	Red
II	Blue
III	Orange
IV	Black



- 1) Required position is approached from only one side to eliminate switching differential (compensation of backlash)

2-stage operation → prepurging at nominal load position «NL»



The diagram illustrates the internal wiring of a 16-channel relay module. The top terminal block (1-19) is connected to various components:

- Terminal 1: Switch (SB).
- Terminal 2: Common connection point for the relay coil.
- Terminal 9: Common connection point for the relay coil.
- Terminal 11: Common connection point for the relay coil.
- Terminal 20: Relay coil (LR) with a normally closed contact (marked *).
- Terminal 10: Relay coil (LR) with a normally open contact (marked *).
- Terminal 8: Common connection point for the relay coil.
- Terminal 18: Solenoid valve (BV1).
- Terminal 19: Solenoid valve (BV2).

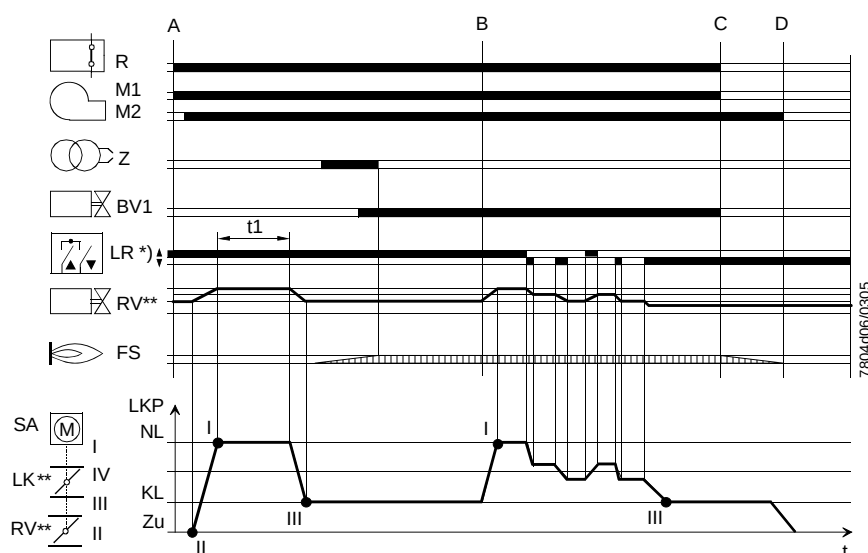
 The bottom terminal block (N, 1-8) is connected to:

- Terminal N: Neutral line.
- Terminal 1: Relay coil (LR) with a normally open contact (marked **).
- Terminal 2: Relay coil (LR) with a normally open contact (marked **).
- Terminal 3: Relay coil (LR) with a normally open contact (marked **).
- Terminal 4: Relay coil (LR) with a normally open contact (marked **).
- Terminal 5: Relay coil (LR) with a normally open contact (marked **).
- Terminal 7: Relay coil (LR) with a normally open contact (marked **).
- Terminal 6: Relay coil (LR) with a normally open contact (marked **).
- Terminal 8: Relay coil (LR) with a normally open contact (marked **).

 The internal wiring shows the relay coil (LR) connected to the common terminal (2) and the normally open contact (marked **). The solenoid valve (BV1) is connected to terminal 18, and the solenoid valve (BV2) is connected to terminal 19. The relay coil (LR) is connected to the common terminal (2) and the normally open contact (marked **). The solenoid valve (BV1) is connected to terminal 18, and the solenoid valve (BV2) is connected to terminal 19. The relay coil (LR) is connected to the common terminal (2) and the normally open contact (marked **). The solenoid valve (BV1) is connected to terminal 18, and the solenoid valve (BV2) is connected to terminal 19.

- **) In the case of modulating operation, fuel valve «BV2» is replaced by a gas control valve «RV»

I	Red
II	Blue
III	Orange
IV	Black



Program sequence diagram shows modulating operation.

LOA... / LMO24... / LMO44...

1 2 10 8 3 7 6 4 5 11 12

GP R

AL

OW OH

M

Z

BV1

LR

QRB...

HS

I 0

N L

Si

SB

N 8 2 1 3 4 5 7 6

c1

C

I II III IV

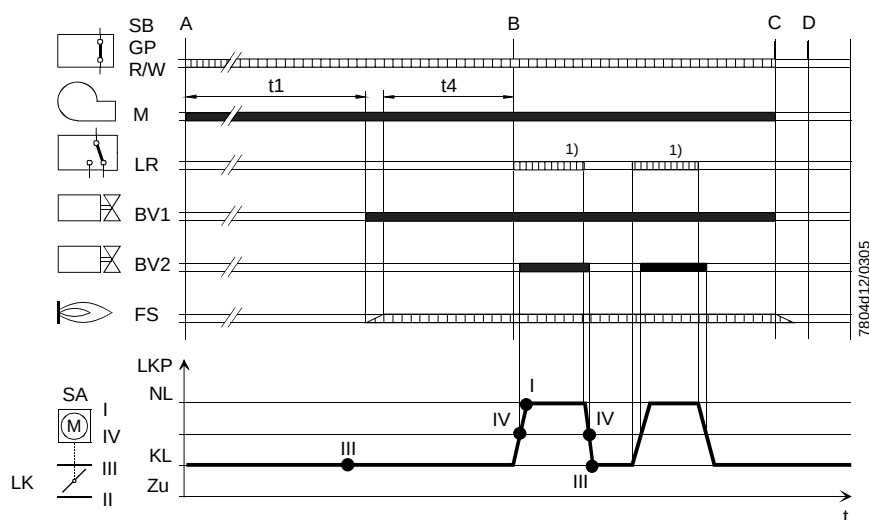
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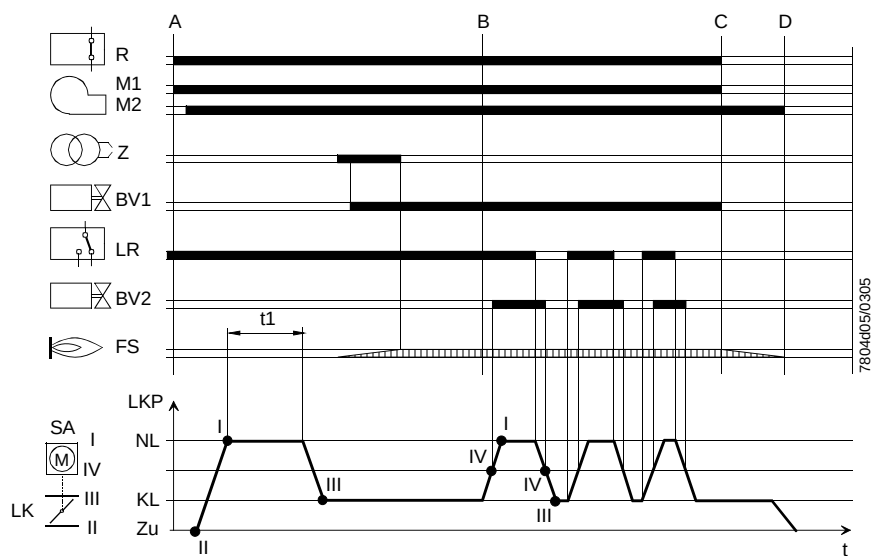
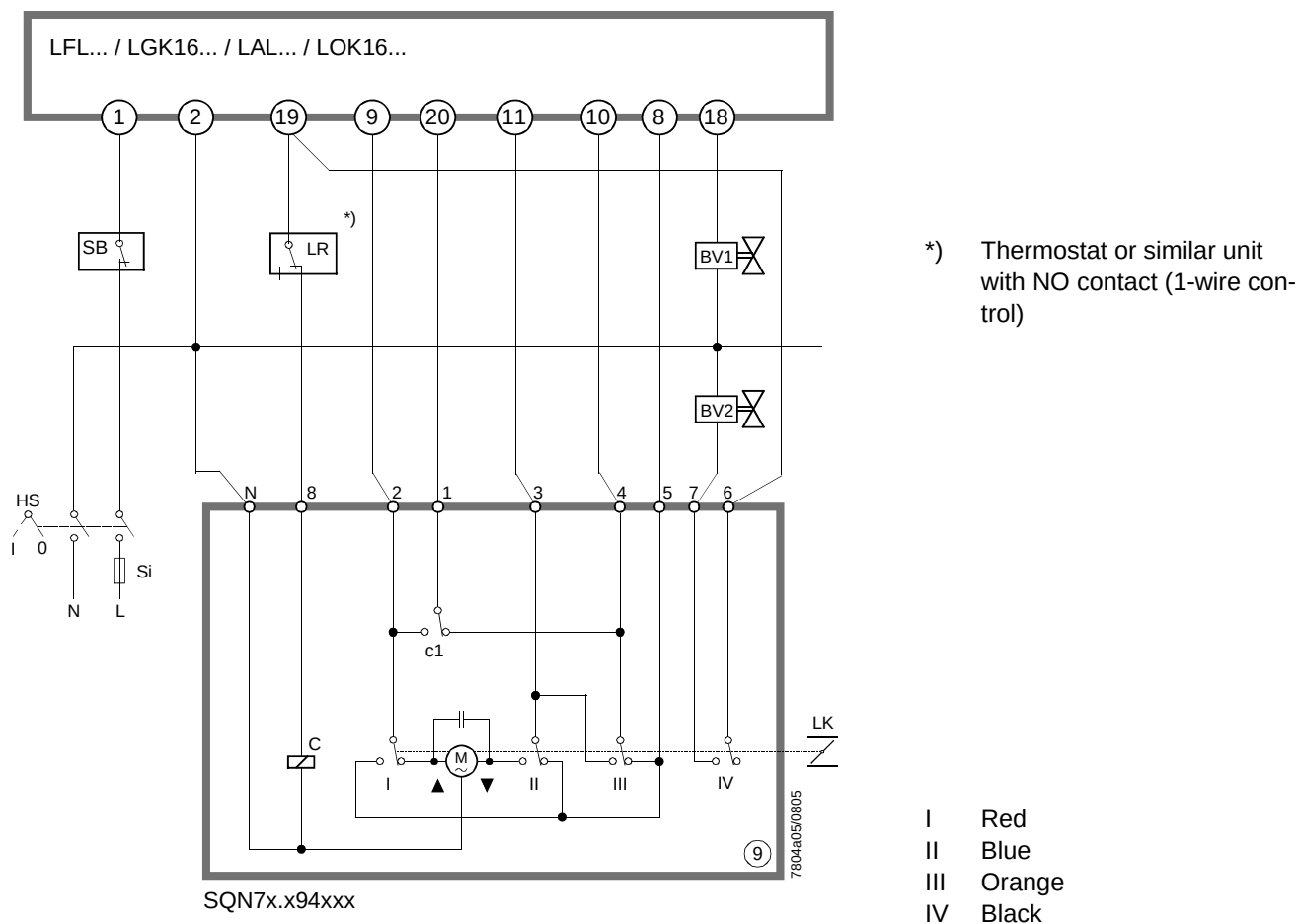
*) Thermostat or similar unit with NO contact (1-wire control)

I	Red
II	Blue
III	Orange
IV	Black



In the case of burner OFF, the air damper will stop at position «KL». To be noted are the heat losses that normally occur during off times.

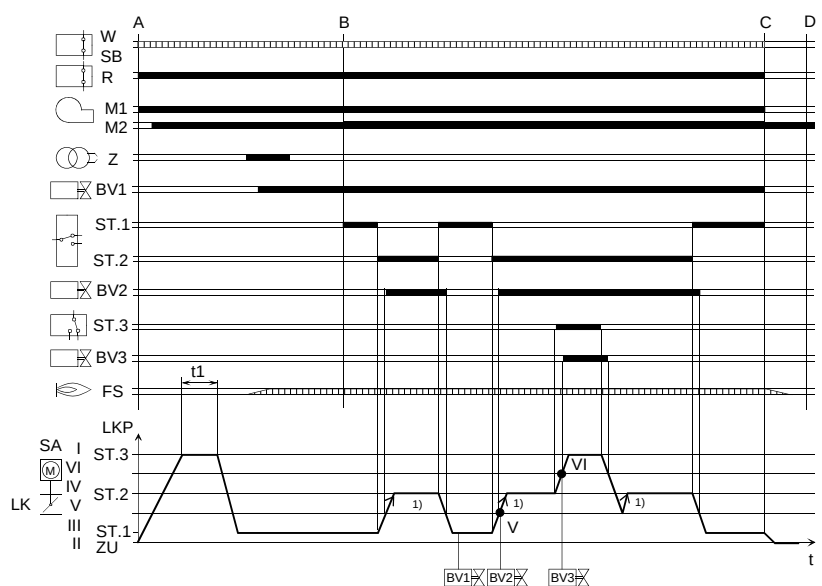
2-stage operation → prepurging at nominal load position «NL»



The diagram shows a motor control circuit. The main supply is connected to a main switch (SB) and a fuse (W). The circuit is divided into three phases: L, N, and PE. The motor (M) is connected to the three phases. The control circuit includes a stop button (R), a forward start button (ST.1), a reverse start button (ST.2), and a thermal relay (ST.3). The thermal relay is connected to the motor's thermal protection (HS) and a fuse (Si). The motor is protected by a fuse (B) and a thermal relay (A). The motor's thermal protection (HS) is connected to the stop button (R) and the forward start button (ST.1). The motor is connected to the three phases (L, N, PE) through a switch (C) and a fuse (B). The motor's thermal protection (HS) is connected to the stop button (R) and the forward start button (ST.1). The motor is connected to the three phases (L, N, PE) through a switch (C) and a fuse (B). The motor's thermal protection (HS) is connected to the stop button (R) and the forward start button (ST.1).

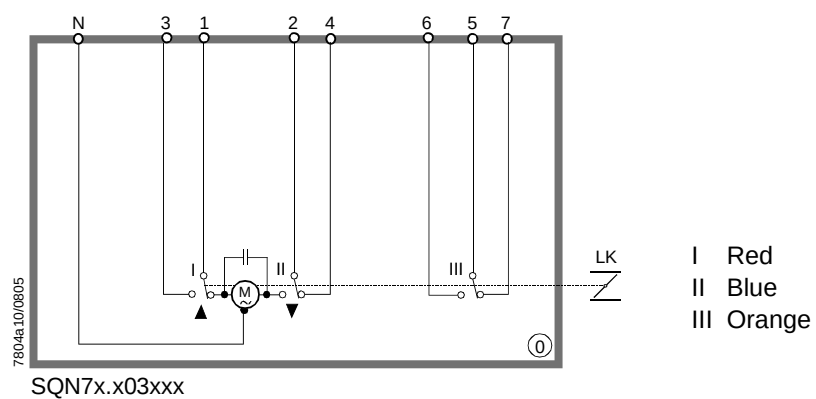
C External auxiliary relay

I	Red
II	Blue
III	Orange
IV	Yellow
V	Black
VI	Green

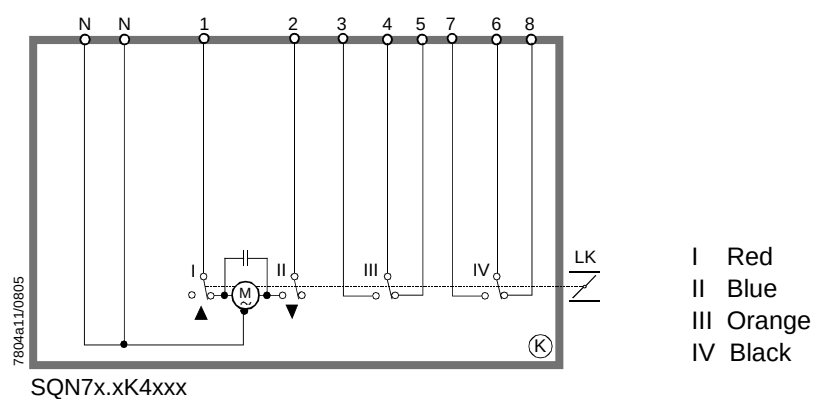


- 1) Required position is approached from only one side to eliminate switching differential (compensation of backlash)

No. ① → Universal use

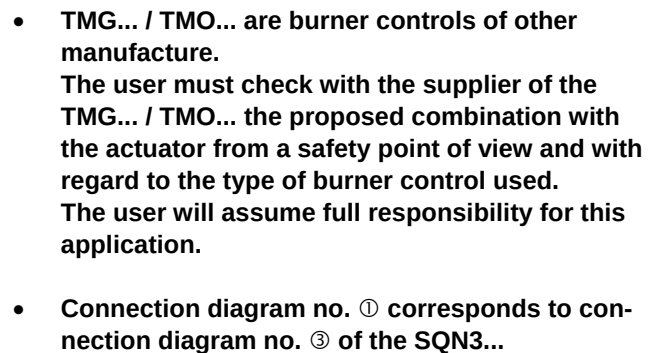


No. ② → Universal use



[illegible]

I	Red
II	Blue
III	Orange
IV	Orange
V	Black



Legend

No. ②	Number of internal diagram. Appears at the second position after the dot in the type reference
I / II	End switches
III / IV / V	Auxiliary switches
AL	Remote indication of lockout (alarm)
BV1	Fuel valve stage 1
BV2	Fuel valve stage 2
BV3	Fuel valve stage 3
EK2	External remote reset button
ION	Ionization probe
FS	Flame signal
GL	Gas / air ratio controller
GP	Gas pressure switch
HS	Main switch
KL	Low-fire
L	Live conductor
LK	Air damper
LKP	Air damper position
LP	Air pressure switch
LR	Load controller
M	Burner or fan motor
Ⓜ	Actuator's synchronous motor
M1	Without postpurge
M2	With postpurge
N	Neutral conductor
NL	Nominal load
OH	Oil preheater
OW	Oil preheater's readiness contact
QRB...	Photoresistive flame detector
R	Temperature or pressure controller
	Relay
RV	Control valve
SA	Actuator
Si	External primary fuse, as specified in the Data Sheet of the relevant burner control
SB	Safety limiter
ST...	Stage
t... / T...	Program times (refer to the Data Sheet of the relevant burner control)
TSA	Safety time
	Resistance
Z	Ignition transformer
CLOSED	Damper fully closed
▲	Direction of rotation OPEN
▼	Direction of rotation CLOSE

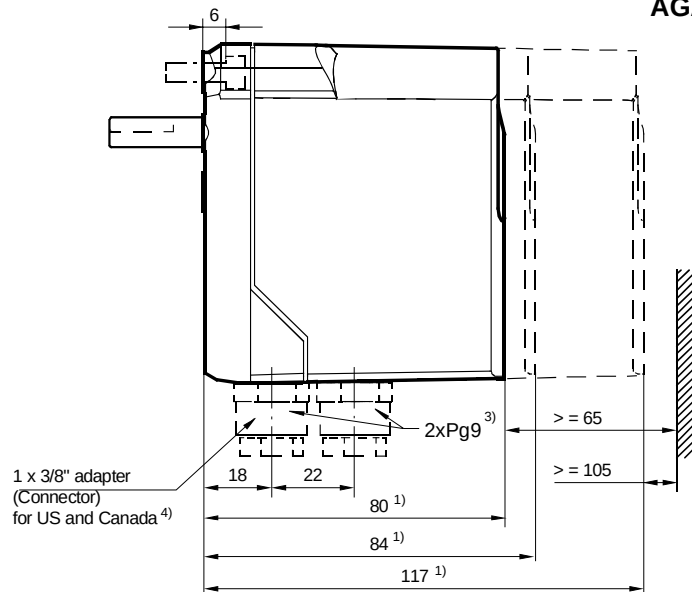
Program sequence diagrams

A	Burner ON
A – B	Startup of burner
B – C	Burner operation / load control operation (modulating or 2-stage)
C	Burner OFF
C – D	Overrun time
D	End of program, burner control ready for new start

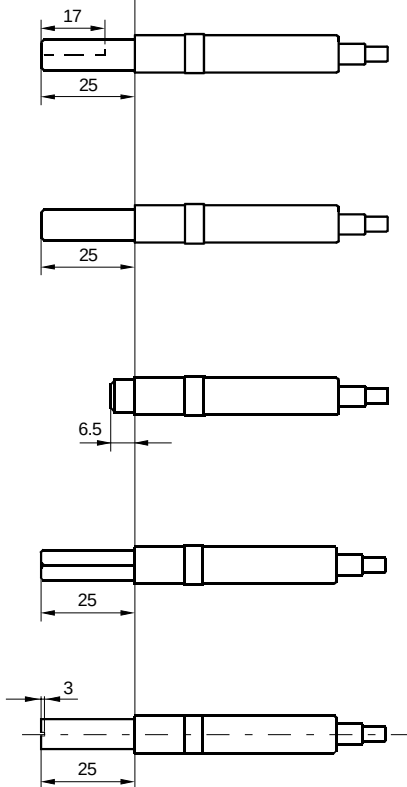
Dimensions

Dimensions in mm

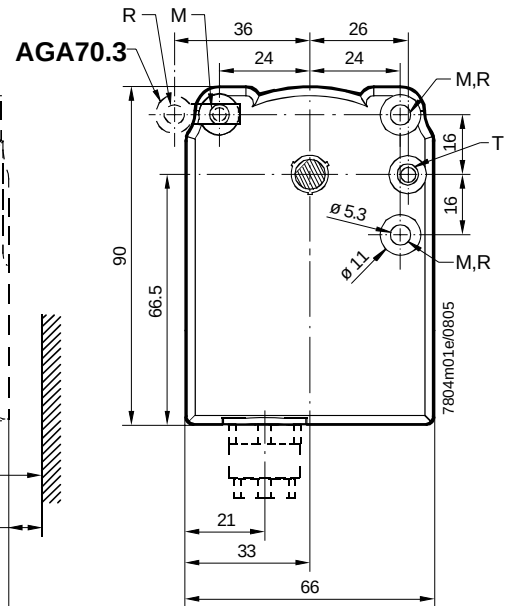
SQN70... / SQN71...



Drive shaft versions
Side view

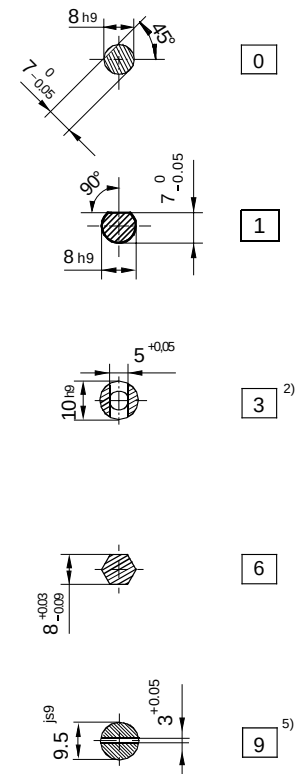


All drive shafts shown in end switch position II «Closed» as supplied.



Drive shaft versions
Cross-section

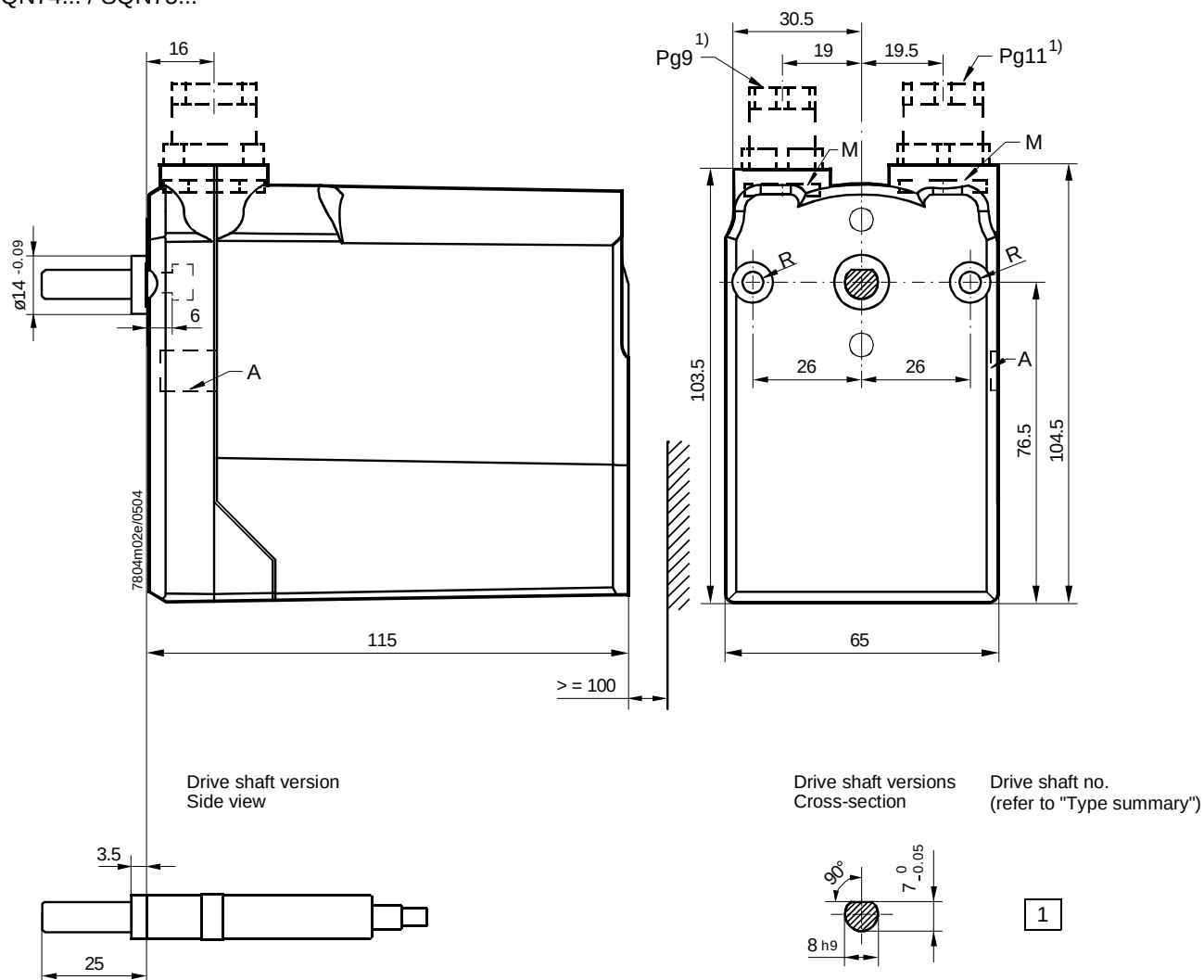
Drive shaft no.
(refer to "Type summary")



- 1) Housing length depending on the type of actuator (refer to «Type summary»)
- 2) Center groove: 6.3 mm deep
Hole 5.1 mm dia.: 16.5 mm deep (incl. center groove depth)
- 3) Not included in supply
- 4) Supplied with actuators type SQN7x.xxxRxx
- 5) Groove does not serve for transmission of force

R Fixing positions matched to the SQN3...
(for 1-to-1 replacement by SQN70... / SQN71...)
requiring AGA70.3
M Through-hole 5.3 mm dia.
T Knockout hole 5.3 mm dia.

SQN74... / SQN75...



Drive shafts shown in «Closed» position (end switch II)

- A Knockout hole for loose cable entry
- R Through-hole 5.3 mm dia.
Fixing positions matched to Conectron LKS 160 and Berger STA
- M Pg nuts (not included in supply; for type reference, refer to «Technical data»)
- 1) Not included in supply



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Мы ценим каждого клиента и предлагаем широкий ассортимент продукции. Оборудование соответствует всем директивам безопасности и имеет необходимые лицензии. Быстрая доставка по всей России и СНГ. Самовывоз со склада в Москве. Квалифицированные специалисты всегда готовы проконсультировать и помочь подобрать нужные запчасти. Доверьтесь нашему многолетнему опыту и надежности поставок! Интернет-магазин "Gtksnab".

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