Comprehensive overview

Actuators
for ventilation applications



HEMAH

2025

Overview of air dampers actuators

Non fail-safe actuators

Compact-size rotary actuators Page 4

		Nominal torque [1]	For damper size up to approximately [1]
TM...		2 Nm	0,4 m²
TM...-5		5 Nm	1 m²

Standard rotary actuators Page 5

		Nominal torque [1]	For damper size up to approximately [1]
LM...A...		5 Nm	1 m²
NM...A...		10 Nm	2 m²
SM...A...		20 Nm	4 m²
GM...A...		40 Nm	8 m²

Fast-running rotary non fail-safe actuators Page 6

		Nominal torque [1]	For damper size up to approximately [1]
LMC		5 Nm	1 m²
NMC		10 Nm	2 m²
SMC		20 Nm	4 m²
GMC		40 Nm	8 m²

Very fast-running rotary non fail-safe actuators Page 7

		Nominal torque [1]	For damper size up to approximately [1]
LMQ		5 Nm	1 m²
NMQ...		8 Nm	1,5 m²
SMQ...		20 Nm	4 m²

The actuators listed in this document are designed for air dampers control in HVAC systems

[1] When calculating the torque, it is essential to take into account all the data supplied by the damper manufacturer concerning cross sectional area, design, place of installation and air flow conditions. The provided data is for reference.

Fail-safe actuators

Rotary actuators with mechanical fail-safe (spring-return)..... Page 8

	Fail-safe	Nominal torque [1]	For damperwith size up to approximately [1]
TF...-3 		3 Nm	0,5 m²
LF...-5 		5 Nm	1 m²
NF... 		10 Nm	2 m²
SF... 		20 Nm	4 m²

Rotary actuators with electric fail-safe (condenser)..... Page. 9

	Fail-safe	Nominal torque [1]	For damperwith size up to approximately [1]
LK... 	⊣⊢	5 Nm	1 m²
NK... 	⊣⊢	10 Nm	2 m²
SK... 	⊣⊢	20 Nm	4 m²

The actuators listed in this document are designed for air dampers control in HVAC systems

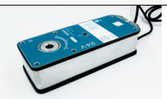
[1] When calculating the torque, it is essential to take into account all the data supplied by the damper manufacturer concerning cross sectional area, design, place of installation and air flow conditions. The provided data is for reference.

Special actuators

Rotary actuators for installation on fire normally-open (fire-retardant) dampers..... Page 10

	Fail-safe (spring)	Open-close (without spring)	Nominal torque	For square shaft	For damper with size up to approximately
BLF...-3... 		-	3 Nm	12×12 mm	Ref. to note [2]
BLF...-5... 		-	5 Nm	12×12 mm	Ref. to note [2]
BF...-10... 		-	10 Nm	12×12 mm	Ref. to note [2]
BFG...-20... 		-	20 Nm	12×12 mm	Ref. to note [2]

Non spring-operated rotary actuators for installation on fire normally-closed and smoke dampers..... Page 11

	Fail-safe (spring)	Open-close (without spring)	Nominal torque	For square shaft	For damper with size up to approximately
BLE...-10 	-	+	10 Nm	12×12 mm	Ref. to note [2]
BLE...-15	-	+	15 Nm	12×12 mm	Ref. to note [2]
BE...-40 	-	+	40 Nm	12×12 mm	Ref. to note [2]

Fast response rotary actuators with ex-proof and general purpose industrial design with IP66..... Page 12

	Fail-safe (spring)	Open-close (without spring)	Nominal torque	For square shaft	For damper with size up to approximately
HEMEX-...S...-12 HEMPA-S...-12 		-	12 Nm	12×12 mm	Ref. to note [2]
HEMEX...-14 HEMPA...-14 	-	+	14 Nm	12×12 mm	Ref. to note [2]

The actuators listed in this document are designed for air damperscontrol in HVAC systems

[2] The damper area and model for these actuators are determined exclusively by the manufacturer of the damper.

Rotary non fail-safe actuators

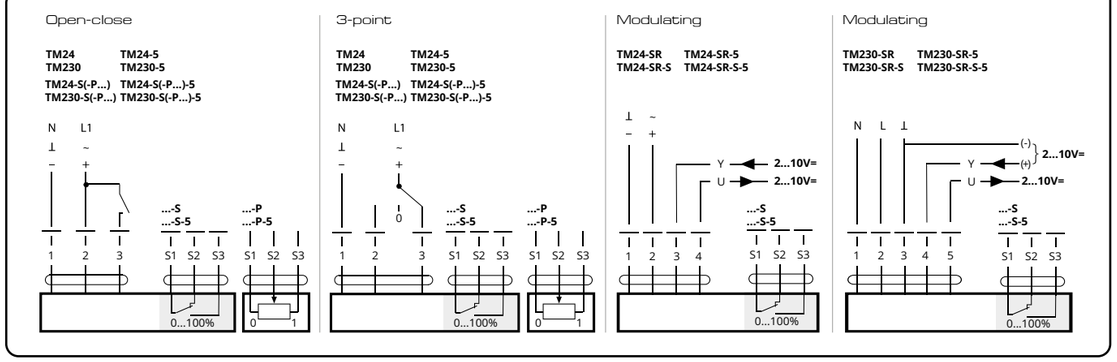
Compact-size actuators

Nominal voltage 24 V ~/= 230 V ~	Auxiliary switch	Feedback potentiometer	Nominal torque 2 Nm, For damper with size up to 0,4 m²		Nominal torque 5 Nm, For damper with size up to 1 m²	
			TM... 		TM...-5 	
Open-close, 3-point						
24 V	-	-	TM24		TM24-5	
	...-S	...-P...	TM24-S	TM24-P...[2]	TM24-S-5	TM24-P...-5[2]
230 V	-	-	TM230		TM230	
	...-S	...-P...	TM230-S	TM230-P...[2]	TM230-S-5	TM230-P...-5[2]
Modulating (2–10 V) [1]						
24 V	-	-	TM24-SR		TM24-SR-5	
	...-S	-	TM24-SR-S		TM24-SR-S-5	
230 V	-	-	TM230-SR		TM230-SR-5	
	...-S	-	TM230-SR-S		TM230-SR-S-5	
Technical data						
Universal shaft clamp			6–16 mm		6–16 mm	
Running time motor 90°			50–70 s		70–100 s	
Manual override			Gear disengagement with button		Gear disengagement with button	
Connection			Cable 1 m		Cable 1 m	
Direction of rotation			Selected by switch		Selected by switch	
Angle of rotation			max 90° may be limited from both sides using mechanical stops		max 90° may be limited from both sides using mechanical stops	
Position indication			Mechanical, add-on		Mechanical, add-on	
Sound power level			≤40 dB		≤40 dB	
Degree of protection			IP 54		IP 54	
Ambient temperature			–20...+50 °C		–20...+50 °C	
Storage temperature			–30...+60 °C		–30...+60 °C	
Ambient humidity			95% r.h., non-condensing		95% r.h., non-condensing	

[1] Modulating actuators: factory setpoint of control signal and feedback signal 2–10 V=, 1) Modulating actuators: factory setpoint of control signal and feedback signal 0–10 V=,can be changed using DIP-switches for 2–10 V=, 0–20 mA, and 4–20 mA.

[2] When ordering, please specify the resistance, possible options: 500 ohm; 1000 ohm; 5000 ohm

Electrical installation

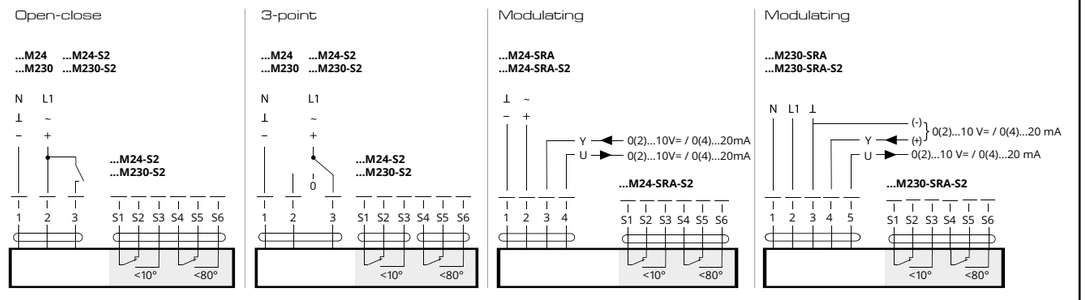


Standard actuators

Nominal voltage 24 V ~/= 230 V ~	Auxiliary switch	Nominal torque 5 Nm, For damper with size up to 1 m²	10 Nm, 2 m²	20 Nm, 4 m²	40 Nm, 8 m²
		LM... 	NM... 	SM... 	GM... 
Open-close, 3-point					
24 V	-	LM24	NM24	SM24	GM24
	2	LM24-S2	NM24-S2	SM24-S2	GM24-S2
230 V	-	LM230	NM230	SM230	GM230
	2	LM230-S2	NM230-S2	SM230-S2	GM230-S2
Modulating (0–10 V) [1]					
24 V	-	LM24-SRA	NM24-SRA	SM24-SRA	GM24-SRA
	2	LM24-SRA-S2	NM24-SRA-S2	SM24-SRA-S2	GM24-SRA-S2
230 V	-	LM230-SRA	NM230-SRA	SM230-SRA	GM230-SRA
	2	LM230-SRA-S2	NM230-SRA-S2	SM230-SRA-S2	GM230-SRA-S2
Technical data					
Universal shaft clamp		6–16 mm	10–20 mm	10–23 mm	10–23 mm
Running time motor 90°		<60 s	<60 s	<150 s	<150 s
Manual override		Gear disengagement with button	Gear disengagement with button	Gear disengagement with button	Gear disengagement with button
Connection		Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m
Direction of rotation		Selected by switch	Selected by switch	Selected by switch	Selected by switch
Angle of rotation		max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops
Position indication		Mechanical, add-on	Mechanical, add-on	Mechanical, add-on	Mechanical, add-on
Sound power level		≤45 dB	≤45 dB	≤45 dB	≤45 dB
Degree of protection		IP 54	IP 54	IP 54	IP 54
Ambient temperature		–30...+50 °C	–30...+50 °C	–30...+50 °C	–30...+50 °C
Storage temperature		–30...+80 °C	–30...+80 °C	–30...+80 °C	–30...+80 °C
Ambient humidity		95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing

[1] Modulating actuators: factory setpoint of control signal and feedback signal 0–10 V=, can be changed using DIP-switches for 2–10 V=, 0–20 mA, and 4–20 mA.

Electrical installation

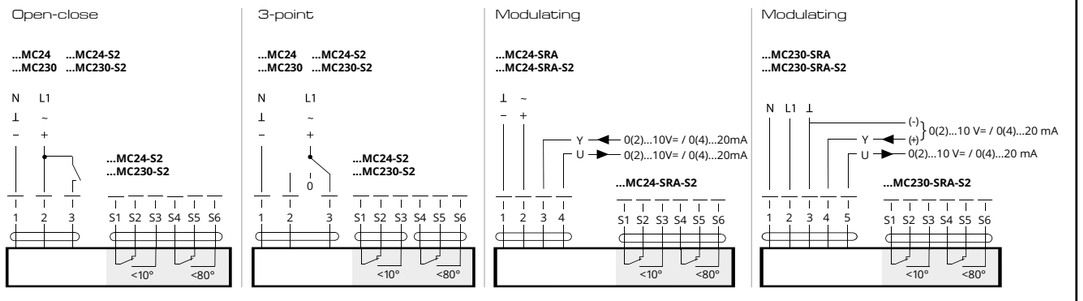


Fast-running actuators
without fail-safe

Nominal voltage 24 V ~/= 230 V ~	Auxiliary switch	LMC...	NMC...	SMC...	GMC...
Nominal torque		5 Nm	10 Nm	20 Nm	40 Nm
For damper with size up to		1 m²	2 m²	4 m²	8 m²
Open-close, 3-point					
24 V	-	LMC24	NMC24	SMC24	GMC24
	2	LMC24-S2	NMC24-S2	SMC24-S2	GMC24-S2
230 V	-	LMC230	NMC230	SMC230	GMC230
	2	LMC230-S2	NMC230-S2	SMC230-S2	GMC230-S2
Modulating (0–10 V) [1]					
24 V	-	LMC24-SRA	NMC24-SRA	SMC24-SRA	GMC24-SRA
	2	LMC24-SRA-S2	NMC24-SRA-S2	SMC24-SRA-S2	GMC24-SRA-S2
230 V	-	LMC230-SRA	NMC230-SRA	SMC230-SRA	GMC230-SRA
	2	LMC230-SRA-S2	NMC230-SRA-S2	SMC230-SRA-S2	GMC230-SRA-S2
Technical data					
Universal shaft clamp		6–16 mm	10–20 mm	10–23 mm	10–23 mm
Running time motor 90°		<20 s	<20 s	<20 s	<20 s
Manual override		Gear disengagement with button	Gear disengagement with button	Gear disengagement with button	Gear disengagement with button
Connection		Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m
Direction of rotation		Selected by switch	Selected by switch	Selected by switch	Selected by switch
Angle of rotation		max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops
Position indication		Mechanical, add-on	Mechanical, add-on	Mechanical, add-on	Mechanical, add-on
Sound power level		≤45 dB	≤45 dB	≤45 dB	≤45 dB
Degree of protection		IP 54	IP 54	IP 54	IP 54
Ambient temperature		–30...+50 °C	–30...+50 °C	–30...+50 °C	–30...+50 °C
Storage temperature		–30...+80 °C	–30...+80 °C	–30...+80 °C	–30...+80 °C
Ambient humidity		95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing

[1] Modulating actuators: factory setpoint of control signal and feedback signal 0–10 V=,can be changed using DIP-switches for 2–10 V=, 0–20 mA, and 4–20 mA.

Electrical installation

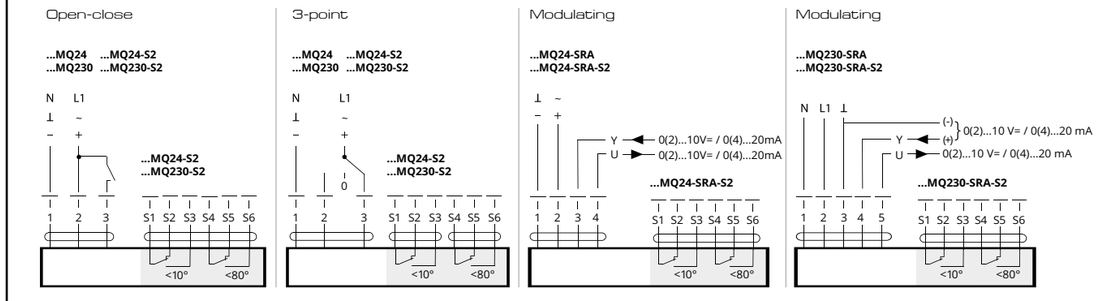


Very fast-running actuators
without fail-safe

Nominal voltage 24 V ~/= 230 V ~	Auxiliary switch	LMQ...	NMQ...	SMQ...
Nominal torque		5 Nm	8 Nm	20 Nm
For damper with size up to		1 m²	1,5 m²	4 m²
Open-close, 3-point				
24 V	-	LMQ24	NMQ24	SMQ24
	2	LMQ24-S2	NMQ24-S2	SMQ24-S2
230 V	-	LMQ230	NMQ230	SMQ230
	2	LMQ230-S2	NMQ230-S2	SMQ230-S2
Modulating (0–10 V) [1]				
24 V	-	LMQ24-SRA	NMQ24-SRA	SMQ24-SRA
	2	LMQ24-SRA-S2	NMQ24-SRA-S2	SMQ24-SRA-S2
230 V	-	LMQ230-SRA	NMQ230-SRA	SMQ230-SRA
	2	LMQ230-SRA-S2	NMQ230-SRA-S2	SMQ230-SRA-S2
Technical data				
Universal shaft clamp		6–16 mm	10–20 mm	10–23 mm
Running time motor 90°		2,5 s	4 s	7 s
Manual override		Gear disengagement with button	Gear disengagement with button	Gear disengagement with button
Connection		Cable 1 m	Cable 1 m	Cable 1 m
Direction of rotation		Selected by switch	Selected by switch	Selected by switch
Angle of rotation		max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops	max. 90° may be limited from both sides using mechanical stops
Position indication		Mechanical, add-on	Mechanical, add-on	Mechanical, add-on
Sound power level		≤55 dB	≤55 dB	≤63 dB
Degree of protection		IP 54	IP 54	IP 54
Ambient temperature		–30...+50 °C	–30...+50 °C	–30...+50 °C
Storage temperature		–30...+80 °C	–30...+80 °C	–30...+80 °C
Ambient humidity		95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing

[1] Modulating actuators: factory setpoint of control signal and feedback signal 0–10 V=,can be changed using DIP-switches for 2–10 V=, 0–20 mA, and 4–20 mA.

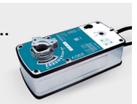
Electrical installation



Rotary actuators with fail-safe

With mechanical fail-safe

Spring return

Nominal voltage 24 V ~/= 230 V ~	Control and feedback signal	Nominal torque							
		3 Nm		5 Nm		10 Nm		20 Nm	
		For damper with size up to							
		0,5 m²		1 m²		2 m²		4 m²	
		TF...-3 		LF...-5 		NF... 		SF... 	
Open-close, 3-point		✕	2	✕	2	✕	2	✕	2
24 V	-	TF24-3	-	LF24-5	-	NF24	-	SF24	-
	-	-	TF24-S2-3	-	LF24-S2-5	-	NF24-S2	-	SF24-S2
230 V	-	TF24-3	-	LF230-5	-	NF230	-	SF230	-
	-	-	TF230-S2-3	-	LF230-S2-5	-	NF230-S2	-	SF230-S2
Modulating (...–10 V) [1]									
24 V	0–10 V=	-	-	LF24-SRZ-5	LF24-SRZ-S2-5	NF24-SRZ	NF24-SRZ-S2	SF24-SRZ	SF24-SRZ-S2
	2–10 V=	-	-	LF24-SR-5	LF24-SR-S2-5	NF24-SR	NF24-SR-S2-5	SF24-SR	SF24-SR-S2
Modulating (...–20 mA) [1]									
24 V	0–20 mA	-	-	LF24-SAZ-5	LF24-SAZ-S2-5	NF24-SAZ	NF24-SAZ-S2	SF24-SAZ	SF24-SAZ-S2
	4–20 mA	-	-	LF24-SA-5	LF24-SA-S2-5	NF24-SA	NF24-SA-S2	SF24-SA	SF24-SA-S2
Technical data									
Universal shaft clamp		6–12 mm		10–16 mm		10–21 mm		12–20 mm	
Running time motor 90°		<25...45 s		**Open-close** <70 s **Modulating** <100 s		**Open-close** <100 s **Modulating** <120 s		**Open-close** <50...70 s **Modulating** <150 s	
Running time fail-safe 90°		<15 s		<20 s		<25 s		<35(25) s	
Manual override		-		Hand crank		Hand crank		Hand crank	
Connection		Cable 1 m		Cable 1 m		Cable 1 m		Cable 1 m	
Direction of rotation		Selected by L/R mounting		Selected by L/R mounting		Selected by L/R mounting		Selected by L/R mounting	
Angle of rotation		max. 95°, adjustable 37...100% with mechanical stop		max. 95°, adjustable 37...100% with mechanical stop		max. 95°, adjustable 37...100% with mechanical stop		max. 95°, adjustable 37...100% with mechanical stop	
Position indication		Mechanical		Mechanical		Mechanical		Mechanical	
Motor sound power level		≤40 dB		≤50 dB		≤50 dB		≤55 dB	
Fail-safe sound power level		≤50 dB		≤62 dB		≤62 dB		≤75 dB	
Protection degree		IP 54		IP 54		IP 54		IP 54	
Ambient temperature		–30...+50 °C		–30...+50 °C		–30...+50 °C		–30...+50 °C	
Storage temperature		–30...+60 °C		–30...+60 °C		–30...+60 °C		–30...+60 °C	
Ambient humidity		95% r.h., non-condensing		95% r.h., non-condensing		95% r.h., non-condensing		95% r.h., non-condensing	

✕ Without auxiliary switches

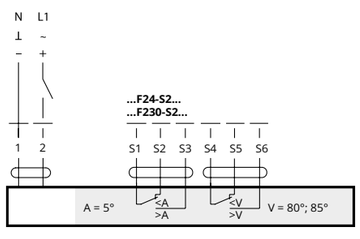
2 With two auxiliary switches

[1] Each model of modulating actuators complies with the definite control and feedback signal

Electrical installation

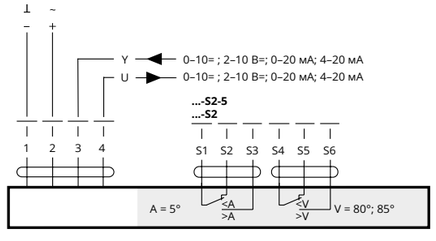
Open-close

TF24-3 LF24-5 ...F24 ...F24-S2...
TF230-3 LF230-5 ...F230 ...F230-S2...

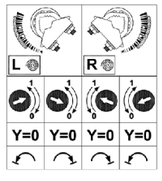


Modulating

...F24-SR... ...F24-SA...
...F24-SRZ... ...F24-SAZ...



Direction of rotation



With electric fail-safe

Condenser

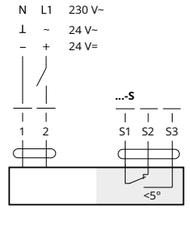
Nominal voltage 24 V ~/= 230 V ~	Auxiliary switch	Nominal torque		
		5 Nm	10 Nm	20 Nm
		For damper with size up to		
		1 m²	2 m²	4 m²
		LK... 	NK... 	SK... 
Open-close, 3-point				
24 V	-	LK24	NK24	SK24
	1[1]	LK24-S	NK24-S	-
	2	-	-	SK24-S2
230 V	-	LK230	NK230	SK230
	1[1]	LK230-S	NK230-S	-
	2	-	-	SK230-S2
Modulating (2–10 V)				
24 V	-	LK24-SR	NK24-SR	SK24-SR
	1[1]	LK24-SR-S	NK24-SR-S	-
	2	-	-	SK24-SR-S2
Technical data				
Universal shaft clamp		6–15 mm	10–16 mm	12–20 mm
Running time motor 90°		50...55 s	60...90 s	70...100 s
Running time fail-safe 90°		25 s	40 s	55 s
Manual override		Gear disengagement with button	Gear disengagement with button	Gear disengagement with button
Connection		Cable 1 m	Cable 1 m	Cable 1 m
Direction of rotation		Selected by switch	Selected by switch	Selected by switch
Angle of rotation		max. 95°, may be limited from both sides using mechanical stops	max. 95°, may be limited from both sides using mechanical stops	max. 95°, may be limited from both sides using mechanical stops
Position indication		Mechanical	Mechanical, add-on	Mechanical, add-on
Motor sound power level		≤40 dB	≤42 dB	≤42 dB
Fail-safe sound power level		≤42 dB	≤45 dB	≤45 dB
Degree of protection		IP 54	IP 54	IP 54
Ambient temperature		–30...+50 °C	–30...+50 °C	–30...+50 °C
Storage temperature		–30...+60 °C	–30...+60 °C	–30...+60 °C
Ambient humidity		95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing

[1] For actuators with 1 auxilary switch, fixed position <5°, which can be changed at the manufacturing plant, on the customer's request. Contact the regional representatives for more details.

Electrical installation

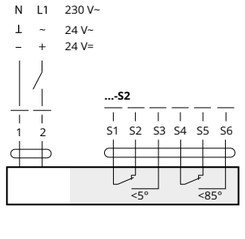
Open-close

LK24 LK24-S LK230 LK230-S
NK24 NK24-S NK230 NK230-S



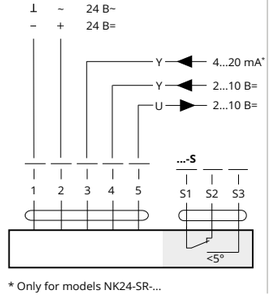
Open-close

SK24 SK24-S2
SK230 SK230-S2



Modulating

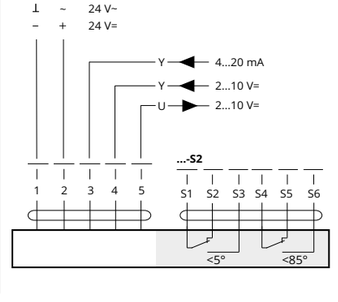
LK24-SR LK24-SR-S
NK24-SR NK24-SR-S



* Only for models NK24-SR-...

Modulating

SK24-SR
SK24-SR-S2



Special actuators

Fire & smoke

For installation on normally-open (fire-retardant) dampers
With spring return

Nominal voltage 24 В ~/= 230 В ~	With thermal release switch	BLF...-3...	BLF...-5...	BF...-10...	BFG...-20...
		Nominal torque			
		3 Nm	5 Nm	10 Nm	20 Nm
		For damper with size up to			
		- [1]	- [1]	- [1]	- [1]
Open-close, 3-point					
24 V	-	BLF24-3	BLF24-5	BF24-10	BFG24-20
	TRS	BLF24-3-T	BLF24-5-T	BF24-10-T	BFG24-20-T
230 V	-	BLF230-3	BLF230-5	BF230-10	BFG230-20
	TRS	BLF230-3-T	BLF230-5-T	BF230-10-T	BFG230-20-T
Technical data					
Fail-safe		✓	✓	✓	✓
Damper shaft		Square 12×12 mm	Square 12×12 mm	Square 12×12 mm	Square 12×12 mm
Running time motor 90°		<25...45 s	<70 s	<100 s	<50...70 s
Running time fail-safe 90°		<15 s	<20 s	<25 s	<35(25) s
Manual override		Hand crank	Hand crank	Hand crank	Hand crank
Connection		Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m
Direction of rotation		Selected by L/R mounting	Selected by L/R mounting	Selected by L/R mounting	Selected by L/R mounting
Angle of rotation		Max. 95°	Max. 95°	Max. 95°	Max. 95°
Position indication		Mechanical	Mechanical	Mechanical	Mechanical
Motor sound power level		≤40 dB	≤50 dB	≤50 dB	≤55 dB
Fail-safe sound power level		≤50 dB	≤62 dB	≤62 dB	≤75 dB
Degree of protection		IP 54	IP 54	IP 54	IP 54
Ambient temperature		–30...+50 °C	–30...+50 °C	–30...+50 °C	–30...+50 °C
Storage temperature		–30...+60 °C	–40...+60 °C	–30...+60 °C	–30...+60 °C
Ambient humidity		95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing

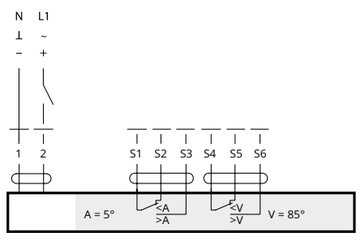
[1] The damper area and model are determined exclusively by the manufacturer of the fire damper.

Pease note that this type of actuators is supplied to the manufactures of fire dumpers; for others, it is supplide when the damper fails or needs to be replaced.

Electrical installation

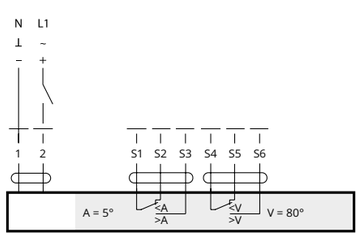
Open-closed

BLF...-3... BF...-10... BFG...-20...



Open-closed

BLF...-5...



For installation on normally closed and smoke dampers
Non spring-operated

Nominal voltage 24 V ~/= 230 V ~	Auxiliary switch	BLE...-10	BLE...-15	BE...-40
		Nominal torque		
		10 Nm	15 Nm	40 Nm
		For damper with size up to		
		- [1]	- [1]	- [1]
Open-close, 3-point				
24 V	5° и 80°	-	-	BE24-40
	5° и 85°	BLE24-10	BLE24-15	-
230 V	5° и 80°	-	-	BE230-40
	5° и 85°	BLE230-10	BLE230-15	-
Technical data				
Valve shaft		Square 12×12 mm	Square 12×12 mm	Square 12×12 mm
Running time motor 90°		<30 s	<30 s	<30 s
Manual override		Hand crank	Hand crank	Hand crank
Connection		Cable 1 m	Cable 1 m	Cable 1 m
Direction of rotation		Selected by L/R mounting	Selected by L/R mounting	Selected by L/R mounting
Angle of rotation		Max. 95°	Max. 95°	Max. 95°
Position indication		Mechanical	Mechanical	Mechanical
Sound power level		≤45 dB	≤45 dB	≤55 dB
Degree of protection		IP 54	IP 54	IP 54
Ambient temperature		–30...+50 °C	–30...+50 °C	–30...+50 °C
Storage temperature		–40...+80 °C	–40...+80 °C	–40...+80 °C
Ambient humidity		95% r.h., non-condensing	95% r.h., non-condensing	95% r.h., non-condensing

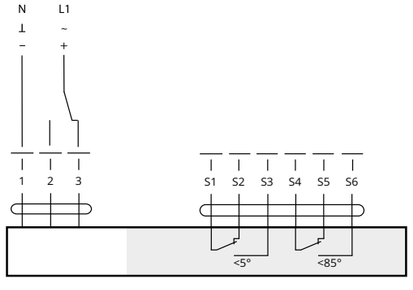
[1] The damper area and model are determined exclusively by the manufacturer of the fire damper.

Pease note that this type of actuators is supplied to the manufactures of fire dumpers; for others, it is supplide when the damper fails or needs to be replaced.

Electrical installation

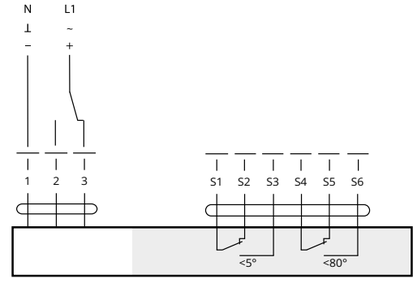
Open-close

BLE...-10 BLE...-15



Open-close

BE...-40



Fast response

Ex-proof and general purpose industrial design with IP66

Nominal voltage 24 V ~/= 230 V ~	Design	Nominal torque 12 Nm For damper with size up to - [1]	Nominal torque 14 Nm For damper with size up to - [1]
		HEMEX-...S...-12 HEMPA-S...-12	HEMEX...-14 HEMPA...-14
			
Open-close, 3-point			
24 V	Ex-proof	HEMEX-S24-12	HEMEX-24-14
	Marine (corrosion-resistant)	HEMEX-MS24-12	HEMEX-24-14
	General purpose industrial (without ex-protection)	HEMPA-S24-12	HEMPA-24-14
230 V	Ex-proof	HEMEX-S230-12	HEMEX-230-14
	Marine (corrosion-resistant)	HEMEX-MS230-12	HEMEX-M230-14
	General purpose industrial (without ex-protection)	HEMPA-S230-12	HEMPA-230-14

Technical data

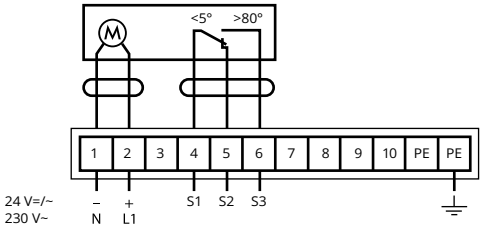
Fail-safe		-
Damper shaft	Square 12×12 mm	Square 12×12 mm
Running time motor 90°	<8 s	<8 s
Running time fail-safe 90°	<3 s	-
Manual override	Hand crank	Hand crank
Connection	Cable 1 m / terminals	Cable 1 m / terminals
Direction of rotation	Selected by L/R mounting	Selected by L/R mounting
Angle of rotation	Max. 95°	Max. 95°
Position indication	Mechanical	Mechanical
Motor sound-power level	≤55 dB	≤55 dB
Fail-safe sound power level	≤62 dB	-
Ambient temperature	IP 66	IP 66
Температура среды	–30...+50 °C (with heating-up option -60 °C)	–30...+50 °C (with heating-up option -60 °C)
Storage temperature	–40...+70 °C	–40...+70 °C
Ambient humidity	95% r.h., non-condensing	95% 95% r.h., non-condensing

[1] The damper area and model for these actuators are determined exclusively by the manufacturer of the damper.

Electrical installation

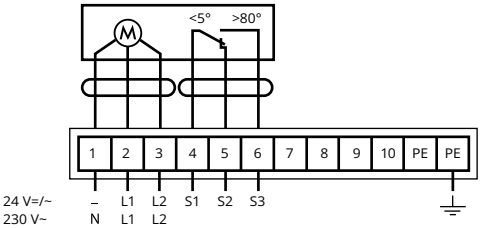
Open-close

HEMEX-S...-12
HEMEX-MS...-12
HEMPA-S...-12



Open-close

HEMEX...-14
HEMEX-M...-14
HEMPA...-14





HEMAH LLC

+7 (495) 799-1515
www.hemah.pro
info@hemah.pro