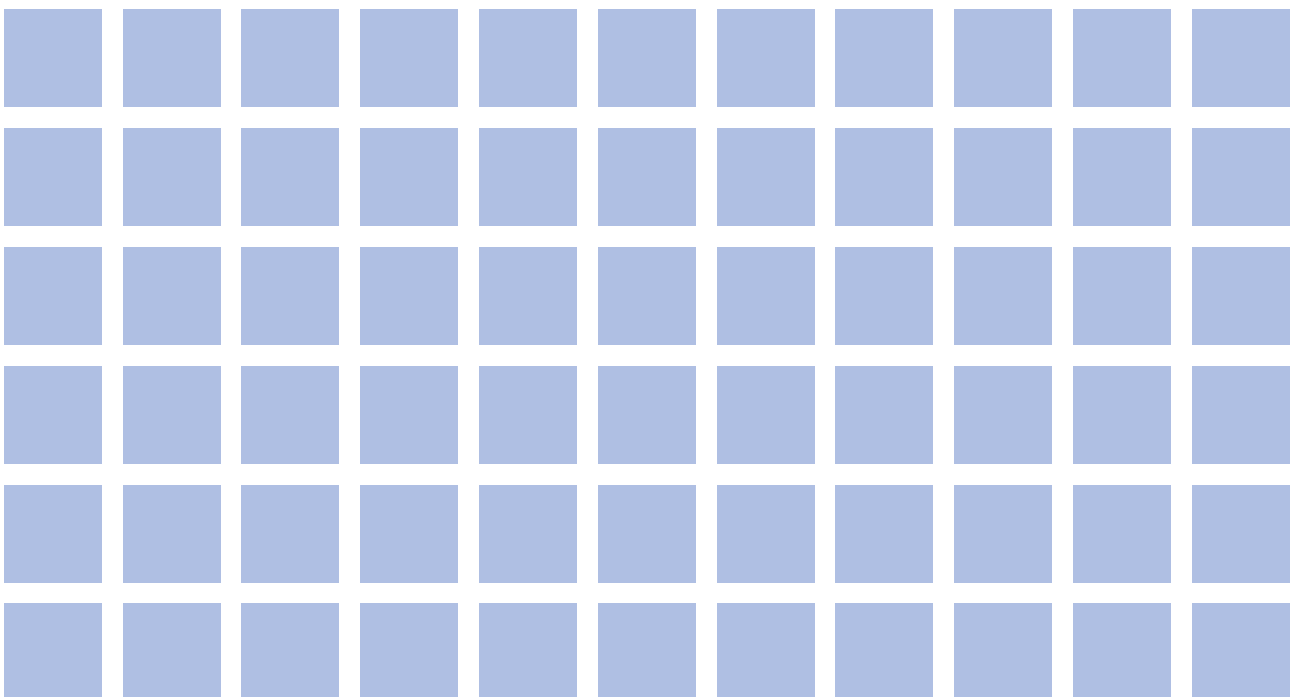


5

Louvre drives



OVERVIEW OF LOUVRE DRIVES																		
Type	Form	Model		Stroke	Force		Speed		Stroke in	Cut-off current	Use			Location		Functions		
		Type of cut-off	Rated voltage	Range	Pushing force	Pulling force	OPEN	CLOSE	60 s	Max.	Natural ventilation	SHEV	NSHEV	Facade	Roof	Run monitoring	Synchronised run	Sequence control
		[VDC]	[mm]	[N]	[N]	[mm/s]	[mm/s]	[mm]	[A]									
LLA	LLA10	S12	24	60 – 200	1000	1000	4,0	4,0	200	1,0	●	●	●	●		■	●	●
	LLA16			60 – 200	1600	1600				1,2	●	●	●	●		■	●	●

LEGEND

● suitable ■ not recommended

S12 Internal Intelligent Control Electronics for synchronised run and programmable functions



LLA10

LLA10 LOUVRE DRIVES

- Model 24V DC, S12
- Pulling/Pushing force 1000 N / 1000 N
- Stroke length 60 – 200 mm
- Speed 4 mm/s
- Housing (WxH) 35 x 35 mm, length depends on stroke
- Coupling adapter PA6 with milled groove (W x L x D): 13,8 x 19 x 8 mm
- Version SOLO
- Protection rating IP40



LLA16

LLA16 LOUVRE DRIVES

- Model 24V DC, S12
- Pulling/Pushing force 1600 N / 1600 N
- Stroke length 60 – 200 mm
- Speed 4 mm/s
- Housing (WxH) 35 x 35 mm, length depends on stroke
- Coupling adapter PA6 with milled groove (W x L x D): 13,8 x 19 x 8 mm
- Version SOLO
- Protection rating IP40



SPECIAL FEATURES LLA

- For smoke and heat exhausting, natural ventilation and ferralux® NSHEV (EN12101-2)
- DIP-Switches for the selection of the running direction and solo-/synchronised run
- Reed-contact for the activation of the emergency closing programm functions
- Self learning stroke recognition
- Robust corrosion-resistant design
- Easy installation by concealed holes below the oblique end caps
- Coupling adapter with milling groove Ø13,3 x 9,2 mm
- Programmable parameters of Internal Intelligent Control Electronics S12
 - Synchronised multi-operation and sequence control without add. devices
 - Electronic soft-start, soft-close and soft-stop at end of stroke control
 - Stroke, force, speed
 - Rebate control

For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804. The LCA results of the different product types are listed at the end of this product catalogue. The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

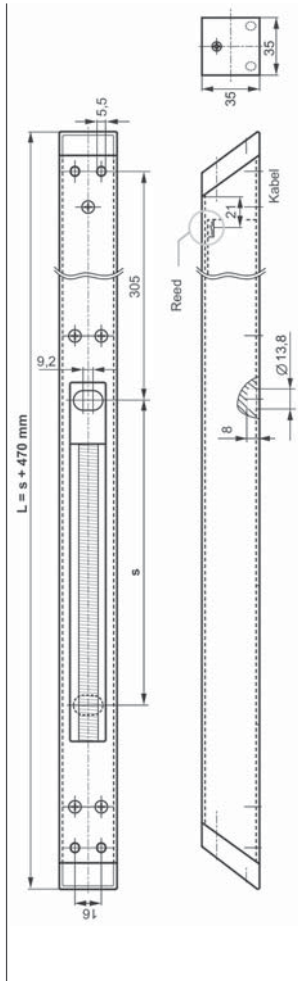
Typical applications



- Application: natural ventilation, SHEV, ferralux®-NSHEV
- Internal Intelligent Control Electronics S12
- Coupling adapter with double slot groove $\varnothing 13,3 \times 9,2$ mm

Options

- Programmable synchronised run (max. 4 drives) and special functions
- Programmable sequence control with locking drives (S3 / S12)
- Customized stroke and coupling adapter on request



TECHNICAL DATA

U_N	Rated voltage	24V DC ($\pm 20\%$), max. 2 Vpp
I_N	Rated current	LLA10: 0,6 A LLA16: 0,9 A
I_A	Cut-off current	LLA10: 1,0 A LLA16: 1,2 A
P_N	Rated power	LLA10: 15 W LLA16: 22 W
ED	Duty cycle	30 % (ON: 3 min. / OFF: 7 min.)
	Protection rating	IP 40
	Ambient temperature range	-5 °C ... +75 °C
F_Z	Pulling force max.	LLA10: 1000 N LLA16: 1600 N
F_A	Pushing force	LLA10: 1000 N LLA16: 1600 N
F_H	Pullout force	5000 N (fastening depended)
	Coupling adapter	Polyamid PA6 with groove $\varnothing 13,8 \times 19,2 \times 8$ mm
	Connecting cable	non-halogen, grey 3 x 1,0 mm ² , ~ 3 m
v	Speed	∇ 4,0 mm/s \curvearrowright 4,0 mm/s
S	Stroke	60 – 200 mm ($\pm 5\%$)
L	Length	s + 470 mm see order data
	Sound pressure level A	≤ 70 dB (A)

ORDER DATA						
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.	
60	530	LLA10 60 S12	E6/C-0	1	520306	
120	590	LLA10 120 S12	E6/C-0	1	520312	
200	670	LLA10 200 S12	E6/C-0	1	520343	
60	530	LLA16 60 S12	E6/C-0	1	520406	
120	590	LLA16 120 S12	E6/C-0	1	520412	
200	670	LLA16 200 S12	E6/C-0	1	520423	

OPTIONS			
Special model	PU/pcs.	Part.-No.	
Drive housing painted/powder coated in other RAL colours			
Lump sum for coating		516030	
Specify at order stage:	1 – 20	516004	
	21 – 50	516004	
	51 – 100	516004	
	up 101	516004	
Extra length connecting cable:			
5 m – non-halogen, grey – grey 3 x 1,0 mm ²		501037	
10 m – non-halogen, grey– grey 3 x 1,0 mm ²		501039	
Microprocessor programming S12			
Programming drives 24V / 230V S12	1	524180	
Electronic stroke reduction 24V S12	1	524190	
Programming synchronised multi-drive systems 24V S3 / S12	1	524182	