



DRIVES FOR COMMERCIAL AND INDUSTRIAL ROLLING DOORS

DESCRIPTION

Sidone RANGE is made up of:

- A worm gear with hollow shaft
- An integrated safety brake
- An emergency manual operation
- Integrated limit switches
- An electric motor

The self-braking worm gear makes the Sidone irreversible. No need for an electric brake (except MIDI and MAXXI over 550 Nm).

ADDITIONAL DETAILS

EUROPEAN DIRECTIVES

Sidone is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

DUTY RATING

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

OVERLOAD SAFETY FACTOR

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the Sidone can reach these levels for short periods.

OUTPUT SPEED

The maximum admissible speed depends on the construction and type of door. The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

MANUAL OPERATION

The manual override devices (handle or handchain override) when power cuts-off, are based on a max strength of the end user of almost 40kg. In big or extremely heavy shutters the manual override is only intended in down direction.

HOLDING TORQUE

The Sidone drive unit, is capable of holding the weight of the door without slippage. The holding capability is the admissible load bearing of the worm gear construction.



Side motor with integrated safety brake for garage doors, commercial and industrial shutters

LP25012T



Emergency manual operation types

- M** Hand Crank
- C** Hand Chain Override

Limit switch types

- M** Mechanical Limits
- E** Digital Limits



OVERRIDE OPTIONS

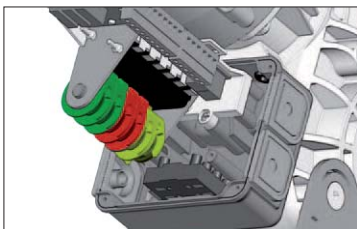


Hand crank



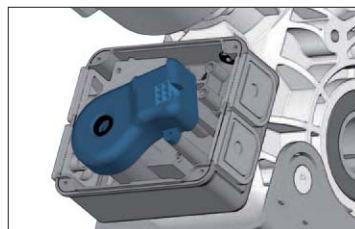
Hand chain
override

LIMIT SWITCH TYPES



Mechanical limits

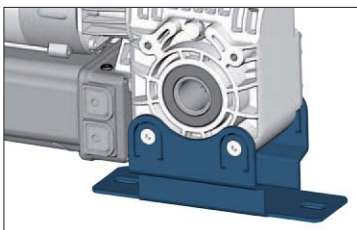
2 Green cams for operating limits
 2 Red cams for safety limits
 2 Yellow cams for auxiliary
 controls



Digital limits

Absolute encoder
 No readjustment after
 power
 failure

INSTALLATION TYPE



Basement



Flange bracket

TECHNICAL DETAILS

	LP25012T
Torque (Nm)	250
Output Speed (rpm)	12
Hollow shaft (mm)	30
Holding torque (Nm)	900
Power (kW)	1.1
Power Supply (Vac)	3~ 400
Frequency (Hz)	50
Amperage (A)	3.0
Working temperature	-5°C/+40°C
Max Cycles Per Hour	20
Limit Switch max turns*	18
Protection Rate (IP)	54
Weight (kg)	18

* Upon request version at 25 limit switch max turns.

Sideone MIDI

Side motors with integrated safety brake for garage doors, commercial and industrial shutters

LP40014T ☐ ☐
LP55012T ☐ ☐
LP65012T ☐ ☐

Emergency manual operation types

- ☐ M Hand Crank
- ☐ C Hand Chain Override

Limit switch types

- ☐ M Mechanical Limits
- ☐ E Digital Limits



The range of **Sidone** LP drive units has been re-engineered in a new size, a new housing and an updated worm gear assembly.

The **Sidone MIDI** drives are all with integrated safety brake and their typical applications are: rolling shutters, rolling grilles, vertical lift doors and sectional doors without spring compensation

The new **Sidone MIDI** drive units are available with mechanical limits, digital limits and with manual override by handle or by chain.

All the Gaposa accessories, plug-in cables and controls are fully compatible with the new drives. A second motor base is available on request for the full compatibility between the new and old drives.

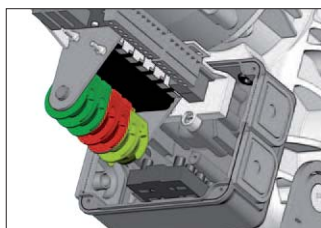
*The new line of **Sidone MIDI** is going to be released in steps: the range listed below is the first introduced. Further models at higher speeds and/or variable speeds will be added in future stages.*



Hand crank

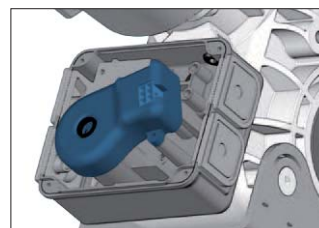


Hand chain override



Mechanical limits

2 Green cams for operating limits
2 Red cams for safety limits
2 Yellow cams for auxiliary controls



Digital limits

Absolute encoder
No readjustment after power failure

	LP40014T	LP55012T	LP65012T
Torque (Nm)	400	550	650
Output speed (rpm)	14	12	12
Power supply (Vac)	3~ 400	3~ 400	3~ 400
Frequency (Hz)	50	50	50
Power (kW)	0.85	0.75	1.10
Absorption (A)	2.6	4.2	4.3
Duty rating (ED)	S3-60%	S3-50%	S3-50%
Limit switch max turns*	12	12	12
Working temperature	-5°C/+40°C	-5°C/+40°C	-5°C/+40°C
Noise (dB)	<70	<70	<70
Protection rate (IP)	54	54	54
Weight (kg)	28	30	32

* Upon request version at 31 limit switch max turns.

Sidone MAXXI

Side motors with integrated safety brake for garage doors, commercial and industrial shutters

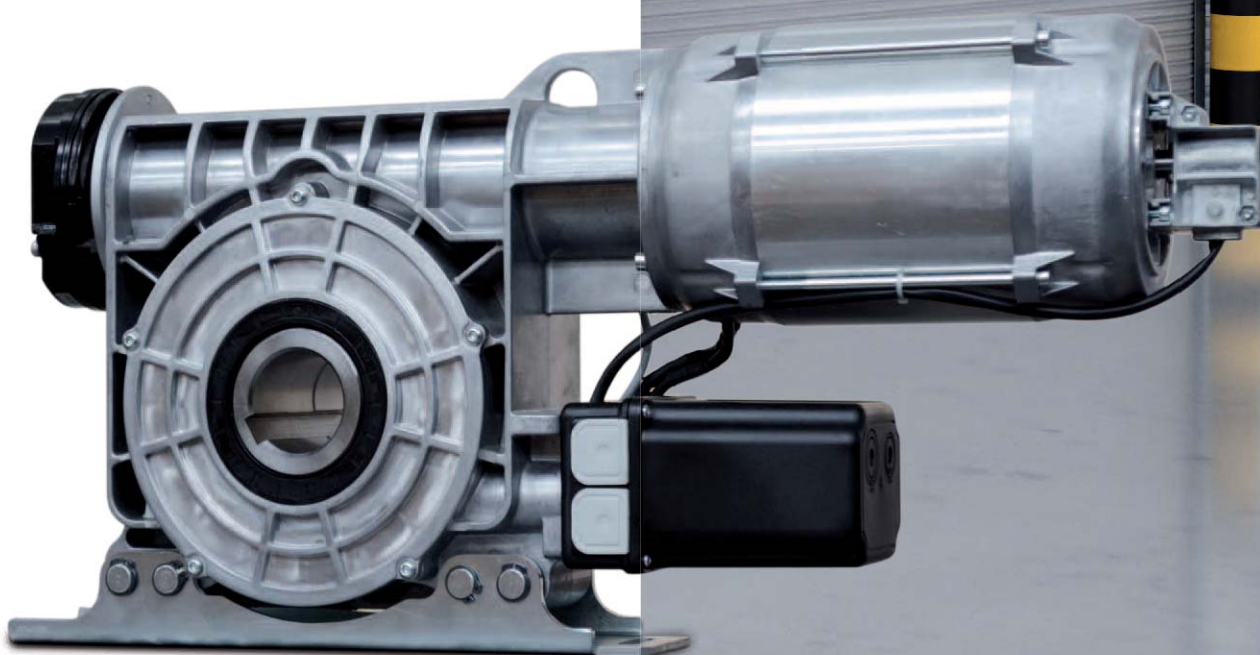
LP 85010T ☐ ☐
LP 100010T ☐ ☐

Emergency manual operation types

- ☐ M Hand Crank
- ☐ C Hand Chain Override

Limit switch types

- ☐ M Mechanical Limits
- ☐ E Digital Limits



The LP Sidone range has now a new larger size model: **Sidone MAXXI**, a strong and powerful drive with integrated safety brake into the gear.

The typical application: heavy rolling shutters, rolling grilles, vertical lift doors and sectional doors without spring compensation.

The new **Sidone MAXXI** is available with mechanical or digital limits and with emergency manual override by handle or by chain.

All the Gaposa accessories, plug in cables and controls are fully compatible with the **Sidone MAXXI** drives.

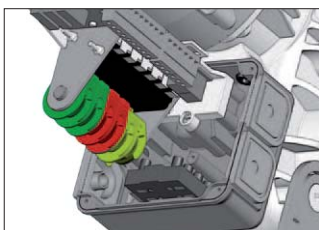
The new line of **Sidone MAXXI** is going to be released in steps: the range listed below is the first introduced. Further models at higher speeds and/or variable speeds will be added in future stages.



Hand crank

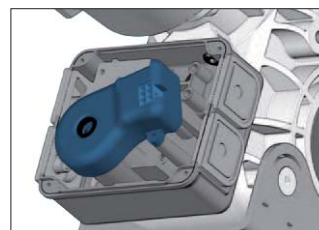


Hand chain override



Mechanical limits

2 Green cams for operating limits
2 Red cams for safety limits
2 Yellow cams for auxiliary controls

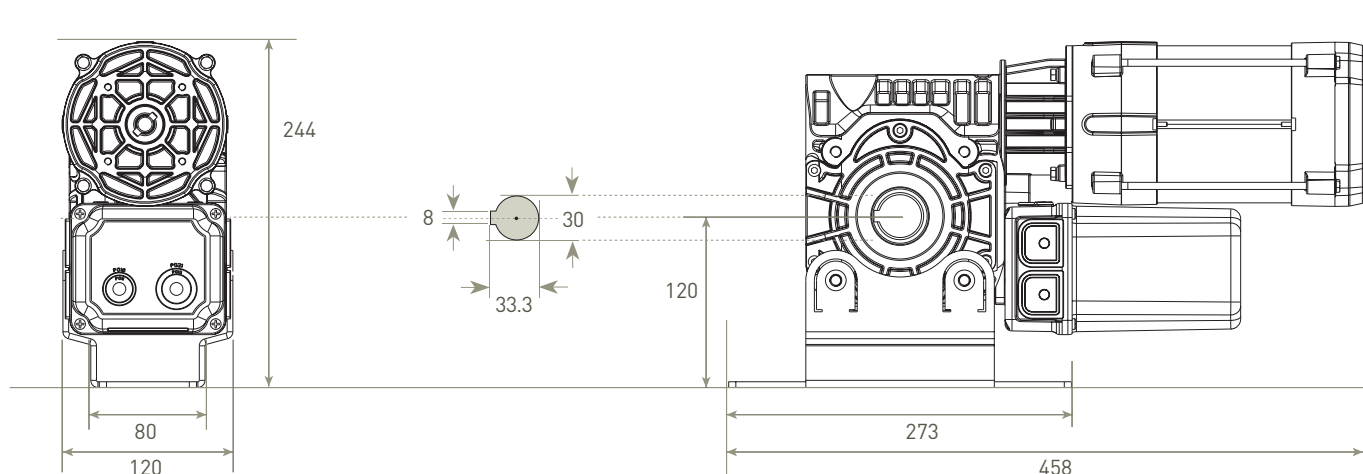


Digital limits

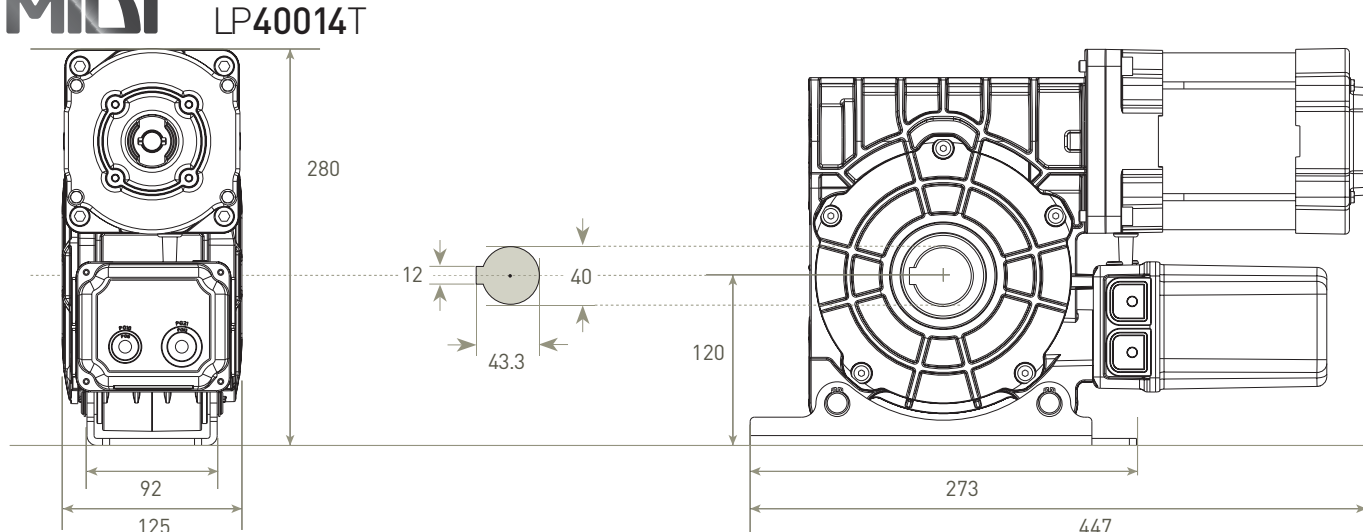
Absolute encoder
No readjustment after power failure

	LP85010T	LP100010T
Torque (Nm)	850	1000
Output speed (rpm)	10	10
Power supply (Vac)	3~ 400	3~ 400
Frequency (Hz)	50	50
Power (kW)	2	3
Absorption (A)	5	6.5
Duty rating (ED)	S3-60%	S3-50%
Limit switch max turns*	12	12
Working temperature	-5°C/+40°C	-5°C/+40°C
Noise (dB)	<70	<70
Protection rate (IP)	54	54

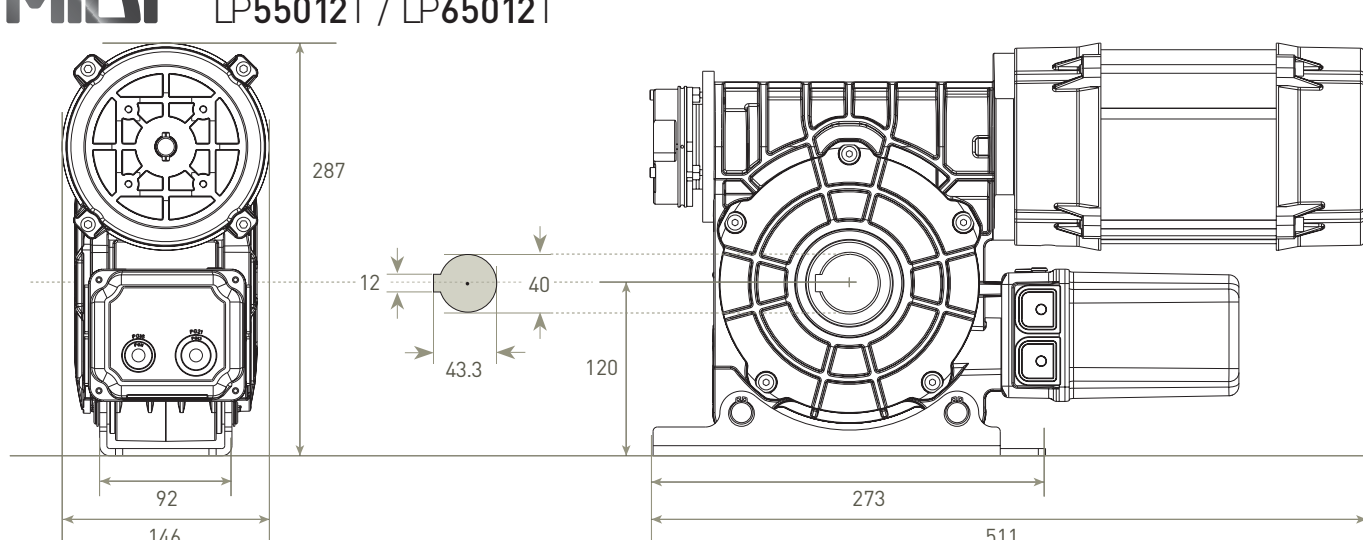
Sidone LP25012T

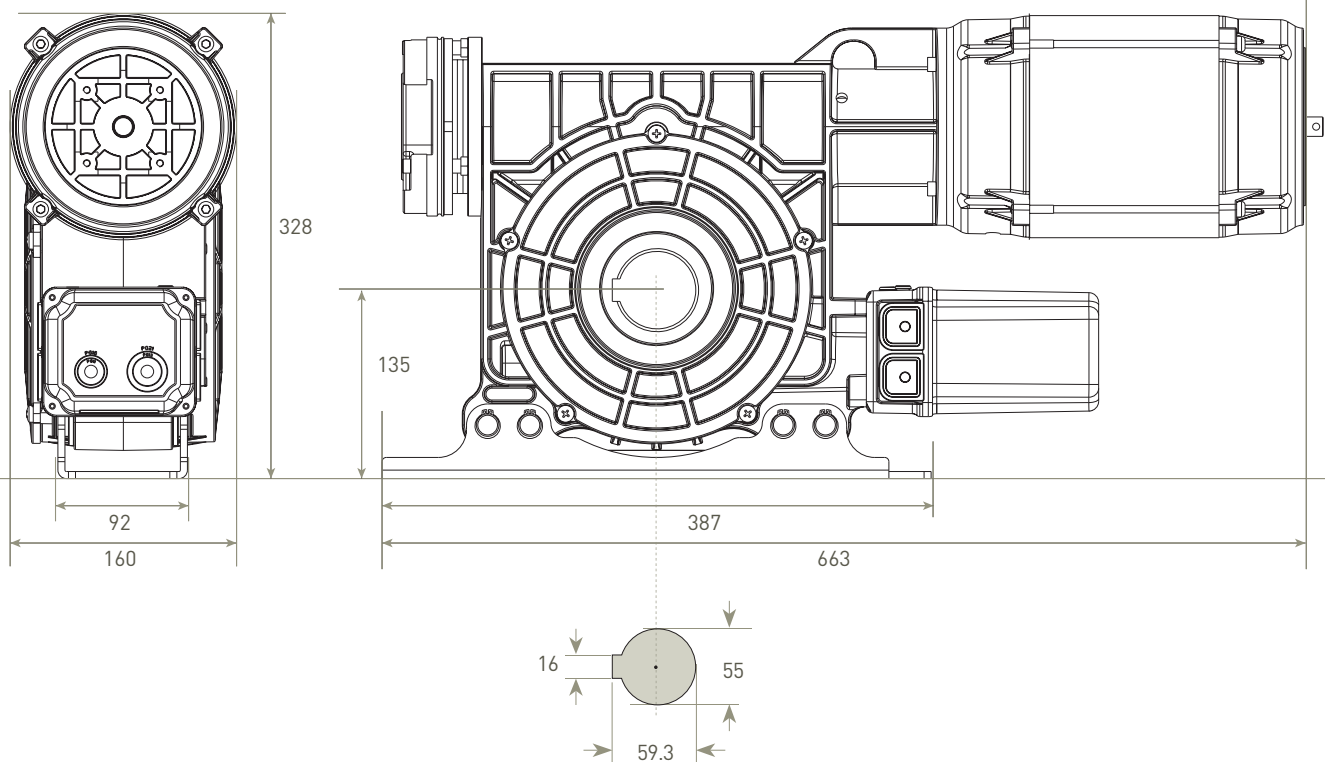


Sidone MIDI LP40014T



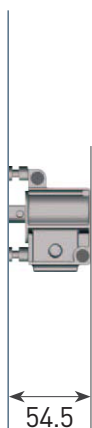
Sidone MIDI LP55012T / LP65012T



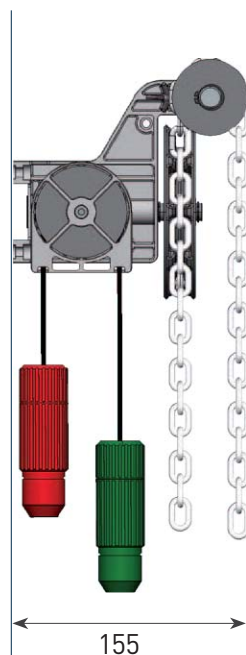


| OVERRIDE OPTIONS

|
Hand crank

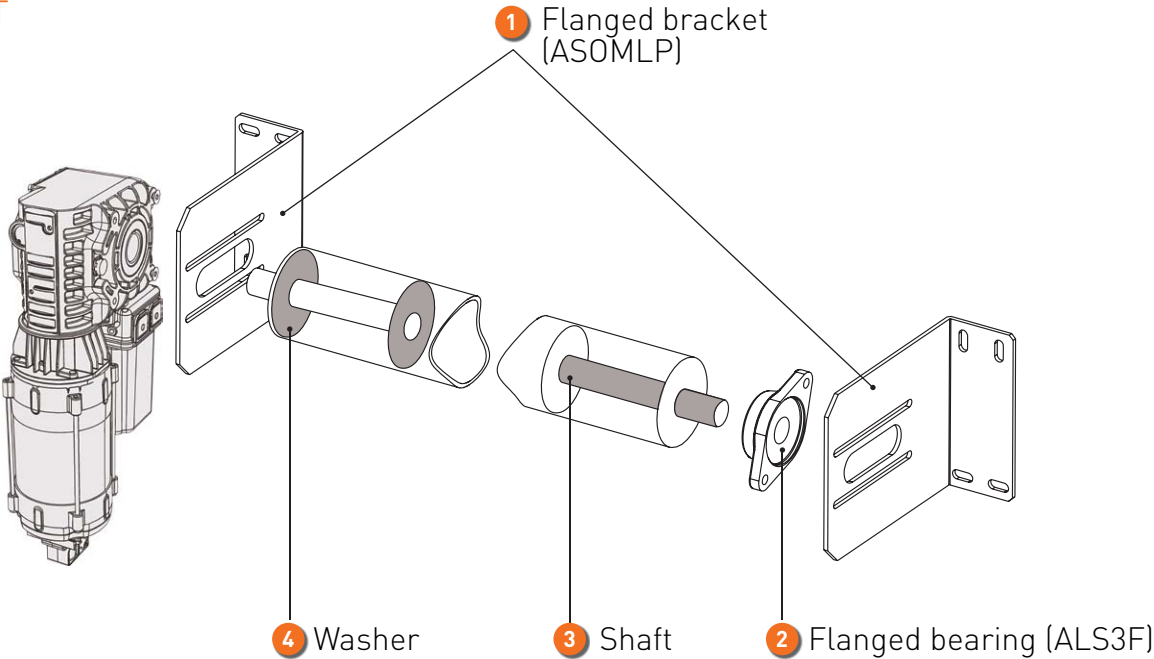


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Hand chain override

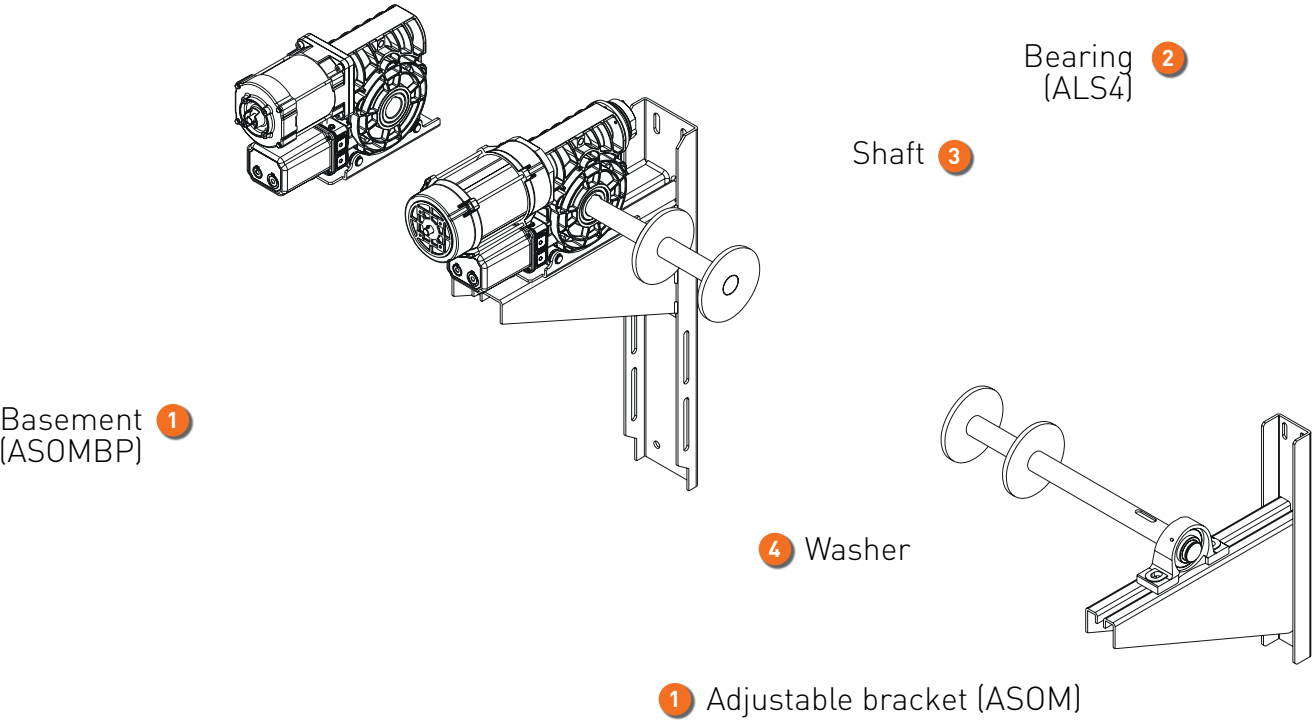
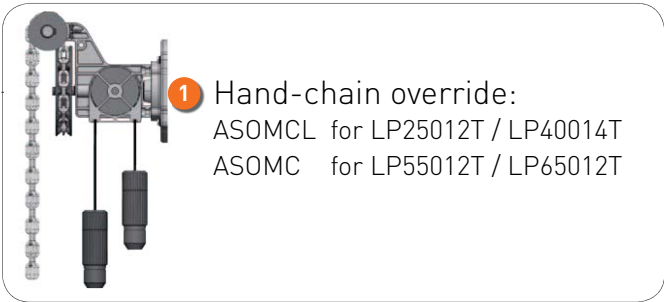


Basic diagrams & accessories

➤ Vertical installation LP 25012T



➤ Horizontal installation LP 25012T LP 40014T LP 55012T LP 65012T



		LP25012T	LP40014T LP55012T LP65012T
1 ACCESSORIES			
ASOMCL	Hand-chain override	■	LP40014T
ASOMC	Hand-chain override		■
ASOMC.70	Hand-chain override - Height 70 mt		■
ASOMBP	Basement	■	
ASOMLP	Flanged bracket	■	
ASOMVER	Vertical bracket		■
ASOM	Adjustable bracket	■	■
ASOMSIDO	Sidone/Midi basement adapter		■
ASOMMINI	Miniside/Midi basement adapter		■
2 BRACKET BEARINGS			
ALS3F	Ø 30 mm	■	
ALS4	Ø 40 mm		■
3 SHAFTS			
ALM3.SF	Ø 30 mm - motor side - 8x7x100 mm feather key - 30 mm circlip	■	
ALP3.SF	Ø 30 mm - bearing side - 8x7x50 mm feather key - 30 mm circlip	■	
ALM4.SF	Ø 40 mm - motor side - 12x8x100 mm feather key - 40 mm circlip		■
ALP4.SF	Ø 40 mm - bearing side - 12x8x50 mm feather key - 40 mm circlip		■
4 WASHERS*			
AL3101.SF	for 101,1x3,6 Ø tube - 30 mm shaft	■	
AL3133.SF	for 133x4,0 Ø tube - 30 mm shaft	■	
AL3159.SF	for 159x4,5 Ø tube - 30 mm shaft	■	
AL3168.SF	for 168,3x4,5 Ø tube - 30 mm shaft	■	
AL3178.SF	for 177,8x5,0 Ø tube - 30 mm shaft	■	
AL3193.SF	for 193,7x5,4 Ø tube - 30 mm shaft	■	
AL4133.SF	for 133x4,0 Ø tube - 40 mm shaft		■
AL4159.SF	for 159x4,5 Ø tube - 40 mm shaft		■
AL4168.SF	for 168,3x4,5 Ø tube - 40 mm shaft		■
AL4178.SF	for 177,8x5,0 Ø tube - 40 mm shaft		■
AL4193.SF	for 193,7x5,4 Ø tube - 40 mm shaft		■
AL4219.SF	for 219,1x5,9 Ø tube - 40 mm shaft		■
AL4244.SF	for 244,5x6,3 Ø tube - 40 mm shaft		■
AL4273.SF	for 273,0x6,3 Ø tube - 40 mm shaft		■
AL4298.SF	for 298,5x7,1 Ø tube - 40 mm shaft		■
AL4323.SF	for 323,9x7,1 Ø tube - 40 mm shaft		■

*Further dimensions and diameters are available upon request.

Selection table

The selection table already considers a 20% friction for single wall shutters. It is necessary to add a further friction percentage for double wall shutters and relevant slat thickness.

		LP25012T	LP40014T	LP55012T	LP65012T
Ø Tube (mm)	Shutter's height (m)	Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)
101.6x3.6	3	289			
	5	252			
	7	223			
133x4	3	265	424	582	688
	5	235	376	518	612
	7	216	345	475	561
159x4.5	3	232	371	510	603
	5	223	358	492	581
	7	207	331	455	537
168x4.5	3	226	362	497	588
	5	213	340	468	553
	7	197	315	433	512
177.8x5.0	3	215	344	473	559
	5	202	324	445	526
	7	187	299	412	486
193.7x5.4	3		319	439	519
	5		300	413	488
	7		278	382	452
219.1x5.9	3		285	391	462
	5		268	368	435
	7		248	341	403

Side motors with chain transmission
kit for heavy rolling shutters

LC 1000T ☐ M
LC 1500T ☐ M
LC 2000T ☐ M

Emergency manual operation types

- ☐ M Hand Crank
☐ C Hand Chain Override

Limit switch types

- ☐ M Mechanical Limits

MAIN FEATURES

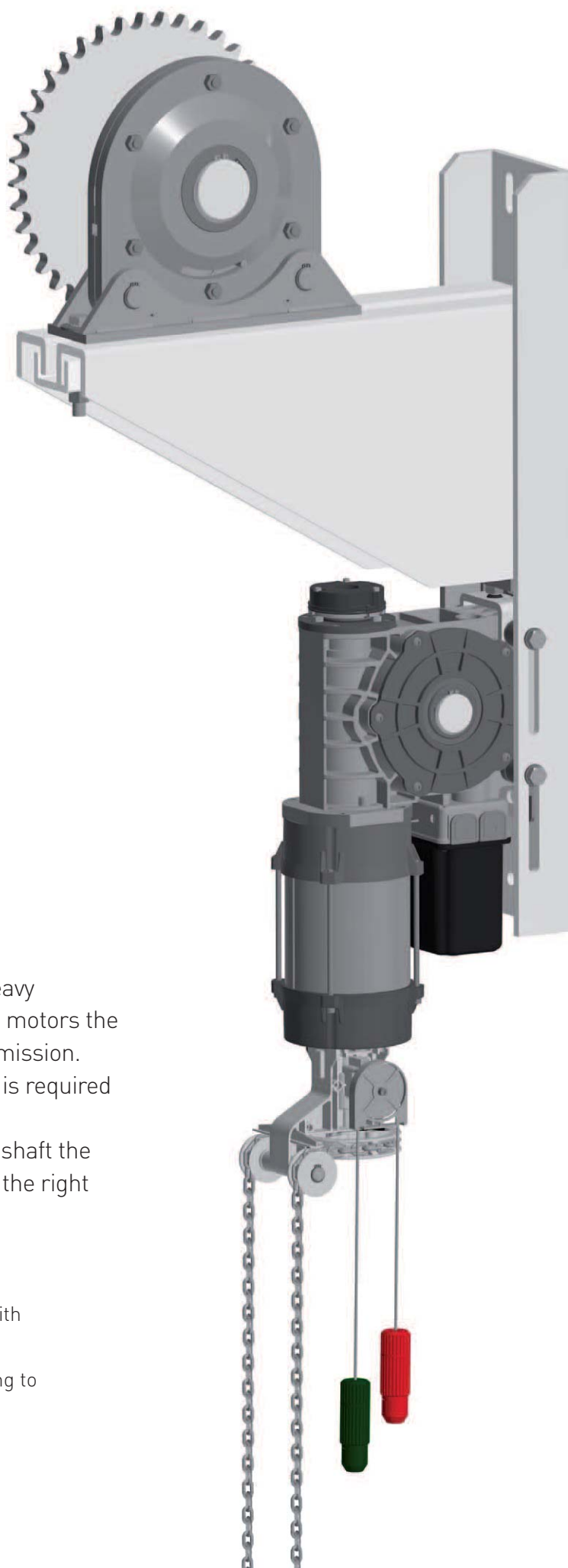
Sidone **kTC** is a special assembly for heavy industrial doors. In installations with these motors the door rolling tube is driven by a chain transmission.

An inertial safety brake of appropriate size is required and considered in the assembly.

Due to the interchangeability of the output shaft the assembly can be installed on the left or on the right side of the door.

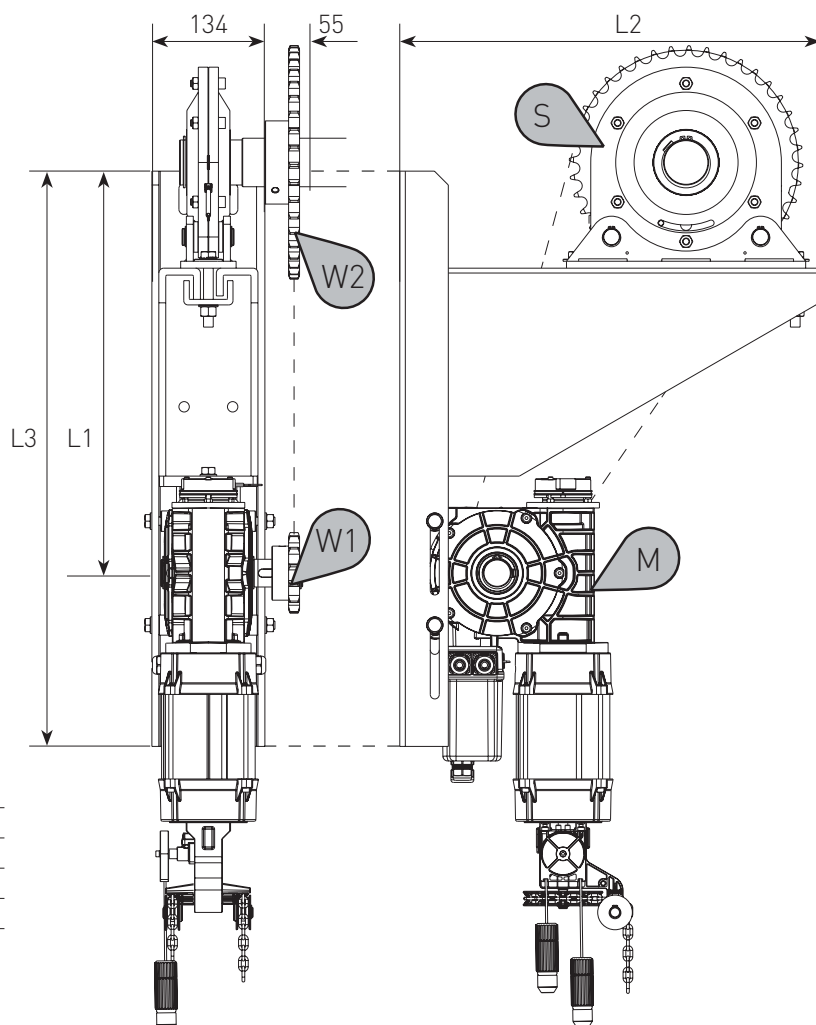
The set is made up of:

- ▶ The Sidone motor without integrated brake with mechanical limit switch
- ▶ A safety brake (M10A, M15A or M20A according to the type of assembly)
- ▶ A special bracket for the chain transmission
- ▶ Sprockets, chain and a set of screws.

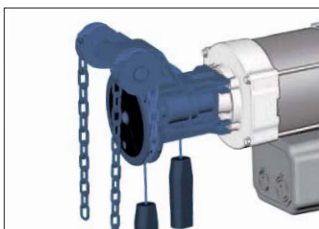


DIMENSIONS (mm)

	LC1000T	LC1500T	LC2000T
L1 (min/max)	551/615		629.5/734.5
L2	455		607.5
L3	800		850
Motor (M)	L550T	L650T	L650T
Safety brake (S)	M10A	M15A	M20A
Reduction ratio (W2/W1)	1.88:1	2.38:1	3.08:1



VERRIDE PTIONS

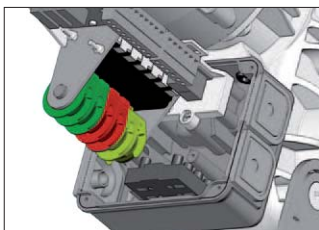


Hand chain override



Hand crank

MIT SWITCH PTIONS

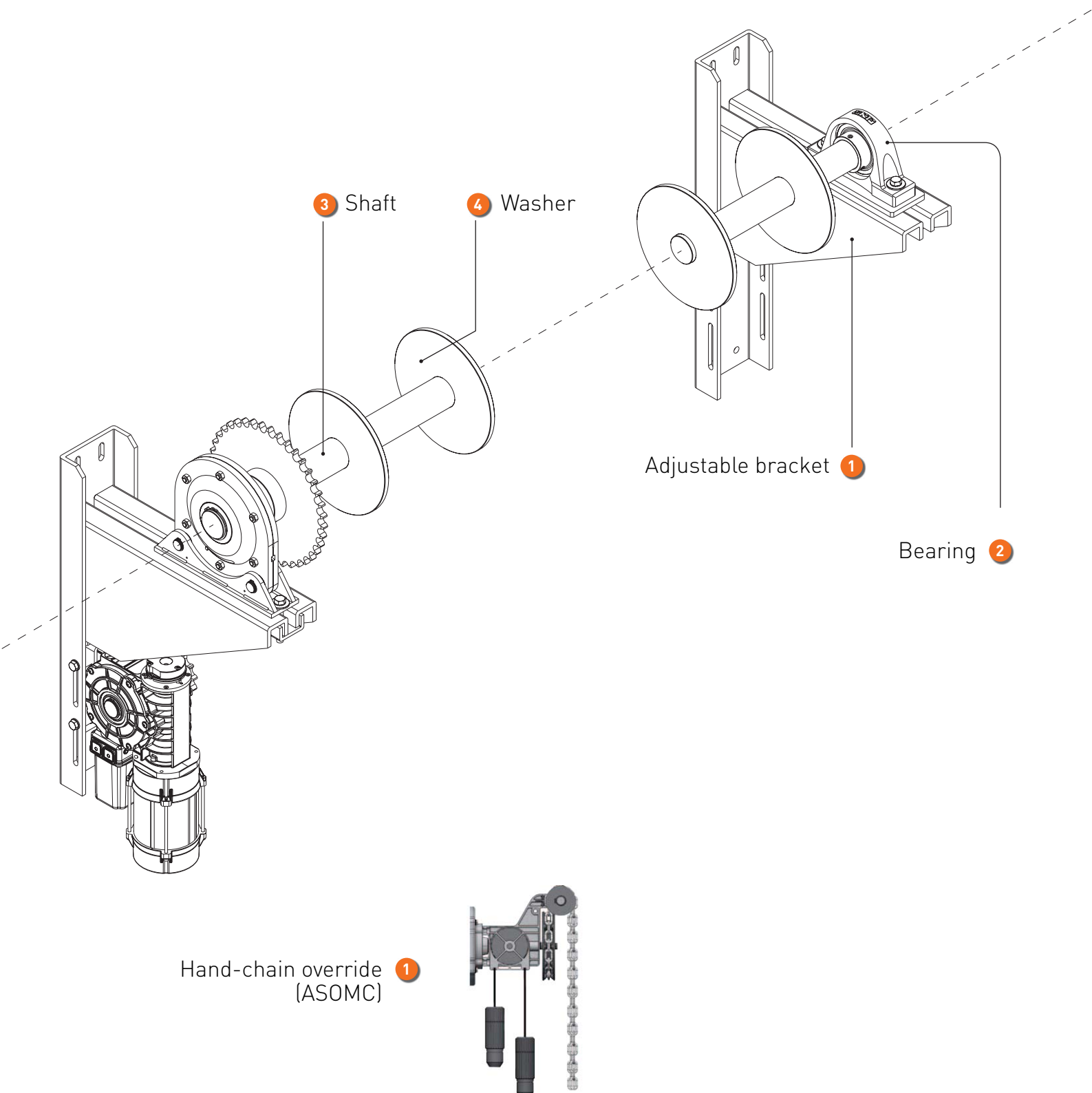


Mechanical limits

- 2 Green cams for operating limits
- 2 Red cams for safety limits
- 2 Yellow cams for auxiliary controls

TECHNICAL DATA

	LC1000T	LC1500T	LC2000T
Torque (Nm)	1000	1500	2000
Output speed (rpm)	6	4	3
Power supply (Vac)	3~ 400	3~ 400	3~ 400
Frequency (Hz)	50	50	50
Power (kW)	1.5	2	2.2
Absorption (A)	3.8	5	5.5
Duty rating (ED)	S3-50%	S3-50%	S3-50%
Limit switch max turns	16	13	10
Working temperature	-5°C/+40°C	-5°C/+40°C	-5°C/+40°C
Noise (dB)	<70	<70	<70
Protection rate (IP)	54	54	54



1 ACCESSORIES

ASOMC	Hand-chain override
ASOM	Adjustable bracket
ASOMS	Adjustable bracket (for M30)
ASOMK	Vertical bracket
ASOMKS	Vertical bracket (for M20)

2 BRACKET BEARINGS

ALS4	Ø 40 mm
ALS5	Ø 50 mm
ALS65	Ø 65 mm

3 SHAFTS

ALM4KS.SF	Ø 40 mm - motor side - 12x8x50 mm feather key - 40 mm circlip
ALP4.SF	Ø 40 mm - bearing side - 12x8x50 mm feather key - 40 mm circlip
ALM5KS.SF	Ø 50 mm - motor side - (2x) 14x9x50 mm feather key - 50 mm circlip
ALP5.SF	Ø 50 mm - bearing side - 14x9x50 mm feather key - 50 mm circlip
ALM65KS.SF	Ø 65 mm - motor side - 18x11x70 + 20x12x80 mm feather key - 65 mm circlip
ALP65.SF	Ø 65 mm - bearing side - 18x11x70 mm feather key - 65 mm circlip

4 WASHERS*

AL4133.SF	for 133,0x4,0 Ø tube - 40 mm shaft
AL4159.SF	for 159,0x4,5 Ø tube - 40 mm shaft
AL4168.SF	for 168,3x4,5 Ø tube - 40 mm shaft
AL4178.SF	for 177,8x5,0 Ø tube - 40 mm shaft
AL4193.SF	for 193,7x5,4 Ø tube - 40 mm shaft
AL4219.SF	for 219,1x5,9 Ø tube - 40 mm shaft
AL4244.SF	for 244,5x6,3 Ø tube - 40 mm shaft
AL5193.SF	for 193,7x5,4 Ø tube - 50 mm shaft
AL5219.SF	for 219,1x5,9 Ø tube - 50 mm shaft
AL5244.SF	for 244,5x6,3 Ø tube - 50 mm shaft
AL5273.SF	for 273,0x6,3 Ø tube - 50 mm shaft
AL5298.SF	for 298,5x7,1 Ø tube - 50 mm shaft
AL5323.SF	for 323,9x7,1 Ø tube - 50 mm shaft
AL65219.SF	for 219,1x5,9 Ø tube - 65 mm shaft
AL65244.SF	for 244,5x6,3 Ø tube - 65 mm shaft
AL65273.SF	for 273,0x6,3 Ø tube - 65 mm shaft
AL65298.SF	for 298,5x7,1 Ø tube - 65 mm shaft
AL65323.SF	for 323,9x7,1 Ø tube - 65 mm shaft

*Further dimensions and diameters are available upon request.

Selection table

		LC1000T	LC1500T	LC2000T
Ø Tube (mm)	Shutter's height (m)	Shutter's weight (Kg)	Shutter's weight (Kg)	Shutter's weight (Kg)
193.7 x 5.4	3	798	1197	1596
	5	751	1127	1502
	7	695	1042	1390
219.1 x 5.9	3	711	1067	1423
	5	669	1004	1339
	7	619	929	1238
244.5 x 6.3	3	644	966	1288
	5	606	909	1212
	7	561	841	1121
273 x 7.0	3	580	870	1160
	5	546	819	1092
	7	505	758	1010
323.9 x 7.1	3	496	743	991
	5	466	700	933
	7	431	647	863