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1 - Generalities :

The Fabric Tension System has been specially designed for motorising the medium, big fabric surfaces and big projections which are often used for velums and verandas solar protection.

The F.T.S. is broken up into 2 inseparable and distinct parts :

- the servo-control device,
- the specific actuators.
- Fabric actuator FTS control box Fabric Guides Load bar Strap Pulley Strap actuator
- Description :

The FTS is not approved. In other hand, it is in accordance with the european regulation criterions. So that, it is $C \in$ marked (for the range 1).

2 - Principle

When the master actuator (which trains) is electrically supplied, the rotation direction S2 and the coilbrake are supplied in the same time.



• To be known :

CO2 potentiometer).

B1

B2

EF

Ν

Legend:

The limit switch unit, with its 46 turns capacity for the FTS 50 and 35 turns for the FTS 60, a longer running time (8 min for the FTS 50 and 7 min for the FTS 60), a 6 min electronic box output delay and a judicious choice of the diameter of the tube allow to motorise and control big projections till 10 m and more (please see abacus). You can use an external limit switch if needed.

A formula can help to find the maximal limit of the fabric in accordance with the diameter of the tube :

 $L = \pi$ (n ø + n (n-1) e)

where :

L is the maximal length of the projection, **n** is the capacity of the limit switch unit (tr), ø the diametre of the tube. and e the fabric thickness.

• Description of a cycle :









Stationary :

The system is stopped either by the limit switch unit, or by a stop order.

movement order :

an "up" or "down" order causes the rotation of the master actuator.The slave actuator brakes the system to an adjustable value (dynamic tension). Thus, the fabric sagging is reduced.

In any case, use guides

Stop or end of limit switch :

A stop or a end of limit switch unit stops the movement of the fabric.

Final tension :

The final fabric tension is managed by the electronic box.This one, after a stop makes a slight reverse rotation of the slave motor in order to ensure a correct final fabric tension.

3 - Functions

The FTS is fitted with several functions :

• the final tension : adjustable by potentiometer situated into the electronic box and graduated from 0 to 9 (marked CO1). This adjustment allows to regulate precisely the whished final fabric tension.



The CO1 potentiometre must be put at 5 at the minimum. In other hand, the structure of the installation must be able to withstand the constraints.

• **the dynamic tension** : In order to avoid the fabric sagging due to the weight of the load-bar and the fabric it-self during the widing/unwiding, the fabric dynamic tension is adjustable by the potentiometer marked CO2 situated into the electronic box and graduated from 0 to 9.



The CO2 potentiometre must be put at 5 at the minimum. In other hand, the structure of the installation must be able to withstand the constraints.

• **the brake disclutching :** marked BP1 into the box, this push-button declutches simultaneously both actuators in supplying the coil-brakes.Used during the mounting if necessary.This push-button is an electronic reset too.

• security roof opening : a dry contact normally closed between the terminal 10 and 13 forbid the movement of the fabric when this contact is opened. Make a strap if not used (the box is delivered with the strap).



• Dissymetric fabric tension adjustment :



This configuration adjustment is totally depending on the mounting type. This dipswitches allows to replace easily the a, b, c system linked to the FTS LS. The dissymetric tension will be imposed by a vertical mounting. This adjustment allows to cancel the dynamic tension on the lower actuator. Indeed, the weight of the load-bar and of the fabric are sufficient to brake the system.



Symetric tension : normal and adjustable (by CO2 potentiometer) dynamic tension in both widing directions.



Symetric tension : normal and adjustable (by CO2 potentiometer) dynamic tension in both widing directions.



dissymetric tension : the dynamic tension is on the fabric actuator. The tension on the strap actuator is at the minimum.



strap actuator

fabric actuator



dissymetric tension :

the dynamic tension is on the strap actuator. The tension on the fabric actuator is at the minimum, apart from the CO2 potentiometer which acts only on the strap actuator • Frequency adjustment :





The FTS 230 V electronic box is delivered with the pin on 50 Hz.

• Miscellaneous :

- The individual control is an impulse type (the impulsion must be ≥ 0.5 second).
- The inputs are dry contacts and are compatible with every automatic control for master control such as Centralis IB, Chronis IB,...
- A security cuts off the power of both actuators as soon as one of them reaches the temperature of tripping.

4 - Installation :

• Abacus generalities :

The FTS ABACUS have to give 3 pieces of information :

- choice of the actuators,
- determination of the number of systems,
- choice of the type of guides, which are compulsory.

• Choice of the guide :

The choice of the actuator is depending on 3 components :

- the projection,
- the weight of the load-bar and the fabric,
- the torque power of the actuator.

Indeed, the projection is directly linked with the fabric guide, and from a certain lenght, the guide is essential in order to ensure a correct winding of the fabric.



• Straps :

We advise you to use a traction system of the load-bar with cable when the projection length is more than 7,5 m.



WARNING, in this case, due to the limit switch unit capacity, this mounting requires external end limit switches.

projection maxi. 12 m.

• Actuators :

- 25/17 : maximum surface 25 m2,
- 55/17 : maximum surface 40 m2,
- 70/17 : maximum surface 50 m2.

• Tubes :

Because of the considerable tightness on the tubes, we advise you the following maximal dimensions for tubes.

- Fabric tube ø 70 : 4 m
- Fabric tube ø 89 : 5 m
- Straps tube ø 63 : 3 m .

• Abacus :





• Mounting procedure :

Owing to the considerable mechanical stress withstood by the brackets, it is imperative to use the locking stop ring with each FTS actuator.



Ref.9910002

Like a standard LT, prepare the motorised axles in accordance with the usual way. Then depress fully both limit switch push button of each actuator...

The cable of the FTS actuator is a 5-wire cable and is not removable

Then, mount the motorised axles on the brackets of the structure and lock them with the locking stop ring.

Take care to respect the axles parallelism.



the

adjustment).



Fix the pulleys, then the straps on the "straps tube".

The straps have to be on the same length in order to ensure a correct traction.

Then wind the straps around the pulleys with the help of the test cable. When they are correctly wind up, press the corresponding limit switch push button



Make the wiring of the electronic box (see the electrical wiring in the next pages).

The final and dynamic tensions have to be set at 0 for the first test, then the adjustment will be made by successive stages incremented of 1, from 5 at the minimum. Take care of the excessive constrains on the fabric, the structure and the brackets.

Once the wiring done, check that the actuators stop at the up and down position just set by a complet operation.

If a straps adjustment is necessary, release the brakes with the brake disclutching push button.



• Potentiometers values :



1 Final tension :

The temporisation of the final tension is standing between 0,6 to 1,2 seconds for the fabric tension and between 0 to 0,2 seconds for the straps tension.

2 Dynamic tension (Frein) :

Dynamic tension by potentiometer C02, final tension at 0 :



Example : 2 motors 55/17 installed on site.

If the potentiometer is set at 6, it means that the force on each bracket is equal to 176 kg/2 = 88 kg. You must take a safety margin.



The values on the abacus above have been measured according to the drawing shown in the following part.

• Measure principle :



• Box hanging :



• In case of vertical installation :

3 advices to reduce the sliding on the vertical system

- 1. The setting of the static potentiometer (final tension) must not exceed "5".
- 2. The bar load must not exceed the weight of 10 kg.

3. On the straps pulleys, grooves must be maximum deep in order to reduce the risk of disengaging when the system start from the UP position.



5 - Push buttons and setting according to heads positions :





Code color



7 - Control wiring :

• Switch :



Straps and fabric above winding. Heads on the right



• FTS group control (1810054) :

• FTS sub-group control (1810073) :



8- Installation guide :



FTS INSTALLATION INSTRUCTIONS

Ref.900156D

■ 1. INTRODUCTION.

- The FTS is a specialised system designed for the solar protection market where horizontal or inclined type shading is reauired.

- The system consists of 2 specific actuators and a common control box which controls the operation of each actuator independently, the dynamic and final tension in the system.

- One actuator fits in the fabric roller, the second actuator fits in the strap roller. The system is extended by straps connected to a draw bar on the fabric.



■ 2. SPECIFIC CHARACTERISTICS

2.1 - Actuators characteristics :

Limit switch unit capacity - 46 turns on the FTS50. - 35 turns on the FTS60.

Each motor can turn in either direction and are fitted with a coil brake (5 wires supply cable) The supply cable is Black RR-F, for

external use and cannot be removed. FTS tubular motors are not continuously rated. They have a built-in thermal overload device which limits their operation to approximately 7 min.



- Water proof box IP56
- Dimensions :190 x 145 x 80 mm.
 Equipped with 5 packings.
- Functions :
- Low voltage impulse type switch control.
- Compatible with automatic control
- SL 1010n and SL 2017n.
- Adjustable dynamic tension
- Adjustable final tension.
- Symetric dynamic tension : the dynamic brake presetting acts on the straps and
- fabric actuators. Dissymetric dynamic tension : the dynamic brake presetting acts on the straps or on the fabric actuators, according to a dipswitches selection.
- Option to connect a safety roof opening.
 Security : in the event of either motor reaching its thermal protection limit or its
- limit end, both motors will stop.
- Push button brake release.
- Output temporisation : 6 min.
- Type 1 working device.
 Device for normally pollutive element.





This

■ 3. LIMIT SWITCH SETTING.

The procedure for setting the limits is the same for either motor regardless of the installation configuration. Firstly, the configuration of your installation must be indentified by the

opposite chart according to the motor positions. 1 - Depress both limit switch push

buttons on each motor (A&B) and ensure they lock in the "in" position.

2 - Press the switch in the up direction untill the desired position is reached and put the switch in the off position.Unlock the relevant push button on motor A by depressing and then releasing it.

3 - On the other motor (B), depress the push button which acts in the same direction as the one set before.

4 - Repeat the operation for the other direction.

Check, with the switch, that the system stops at the up and down positions just set. After setting, refit the protective cap.

If necessary to re-set a limit switch, put both push buttons of each motor in the "in" position and start again from 1



Before the setting of the motor, put the potentiometers of the dynamic and finale tension to "0".



■ 5. ELECTRONIC BOX ADJUSTMENT.



■ 6. CONTROL BOX CONNECTIONS.

 The commons wire (blue) from both actuators are connected to terminal 3.
 The earth wire (yellow/green) from both actuators must be connected to the supply earth using a connector block.

An impulse type switch can be connected to terminals 10,11 and 12.
If no safety device is fitted, then bridge terminals 10 and 13 (done in factory).

Do not put the actuator supply cables and the security control cables together in the same slive.



■ 7. INSTALLATION PROCEDURE.

- 1 Ensure the correct size of motors has been selected by using the Somfy FTS selector chart.
- 2 Fit the actuators into the tube with the correct drive adapters in accordance with our standard installation instructions.
- 3 depress both limit switch unit push buttons and ensure they lock in the "in" position.
- 4 Mount the motorised barrels onto their respective brackets.Locking stop ring ref.910002 must be used with the motor end bracket.Ensure that both barrels are parallel.
- 5 Attach the fabric to the tube.Connect the test lead ref.137080 to the motor as shown and wind the fabric around the tube. Set the "in" limit by releasing the relevant push button.
 6 Fit the pulleys and straps.Adjust
- 6 Fit the pulleys and straps.Adjust the straps as required to ensure that they are all the same length.Connect the test lead to motor as shown and wind the straps around the tube.Set the "out" limit by releasing the relevant button.
- 7 Before connecting the actuators and the switch to the control box set the 2 potentiometers to "0" and ensure that all the dipswitches are in the "up"position.Connect the actuators and switch to the control box as shown.
- 8 Check that the system operates in the correct sense and ensure that the limits have been set correctly.
- 9 Set the dynamic and final tension in the system by gradually increasing the settings on the potentiometers. When setting the final tension in the system, care should be taken to ensure that the fabric and all fixtures and fittings are capable of withsanding the operating load.
- 10-If the straps have to be adjusted, press the brake release button in the control box, adjust the straps as necessary and then operate the system as normal.





8- Technical data forms :

Γ	MKI	ELE	CTR	ONIC F	PRODL	JCT	FORM							
				25.03.96		DMKI-FF	PTE ESFT726120	R0						
C	desigi	nation	FTS	HiPro con	trol box	230V								
r	refere	nce	ESF	T 726120										
ľ	range		Sepa	arate box										
	Adjus	tment of the can	vas tension	of the FTS HiPro sy	stem.									
	Time	delay outputs : 6	,											
SN	The p	ush-button input	s are in secu	urity low voltage and	d impulse type.									
õ	A soc	urity roof openin	a provente t	ha system moveme	nt in case a ro	of window is	ononod Mako a jum	nor						
CT	if this	security is not us	sed.	ne system moveme			opened.make a juni	A security root opening prevents the system movement in case a root window is opened. Make a jumper if this security is not used.						
	Do not wire 2 FTS boxes in parallel.													
L N N	Do no	t wire 2 FTS bo	xes in parall	el.										
FUN	Do no	t wire 2 FTS bo	xes in parall	el.										
FUN	Do no	t wire 2 FTS bo	xes in parall	el.										
FUN	Do no	t wire 2 FTS bo	xes in parall	el. Material		ABS								
FUN	Do no Box	t wire 2 FTS bo	xes in parall	el. Material Colour		ABS Grey								
FUN	Do no Box	t wire 2 FTS bo	xes in parall	el. Material Colour Dimensions		ABS Grey 190 x145 ;	x80 mm							
FUN	Do no	t wire 2 FTS bo	xes in parall	el. Material Colour Dimensions Protection factor and splashproof	against solid	ABS Grey 190 x145 x IP 56	x80 mm							
FUN	Do no Box Supply	t wire 2 FTS bo	xes in parall	el. Material Colour Dimensions Protection factor and splashproof nominal	against solid	ABS Grey 190 x145 x IP 56 220-240 V	x80 mm (/ 50-60 Hz							
4S FUN	Do no Box Supply	t wire 2 FTS bo	xes in parall	el. Material Colour Dimensions Protection factor and splashproof nominal limits Frequency	against solid	ABS Grey 190 x145 : IP 56 220-240 V 198-255 V 50 - 60 Hz	x80 mm / / 50-60 Hz							
TIONS	Do no Box Supply Electro	t wire 2 FTS bo	xes in parall	el. Material Colour Dimensions Protection factor and splashproof nominal limits Frequency CEI 1000-4-2	against solid	ABS Grey 190 x145 x IP 56 220-240 V 198-255 V 50 - 60 Hz 8 kV minin	x80 mm / / 50-60 Hz /							
CATIONS	Do no	t wire 2 FTS bo	xes in parall	el. Material Colour Dimensions Protection factor and splashproof nominal limits Frequency CEI 1000-4-2 CEI 1000-4-3 CEI 1000-4-4	against solid	ABS Grey 190 x145 : IP 56 220-240 V 198-255 V 50 - 60 Hz 8 kV minin lev III gua lev III gua	x80 mm / / 50-60 Hz / ranteed ranteed							
ECIFICATIONS	Do no Box Supply Electro Tempe	t wire 2 FTS bo	xes in parall	el. Material Colour Dimensions Protection factor and splashproof nominal limits Frequency CEI 1000-4-2 CEI 1000-4-3 CEI 1000-4-3 CEI 1000-4-4 Working Storing	against solid	ABS Grey 190 x145 : IP 56 220-240 V 198-255 V 50 - 60 Hz 8 kV minin lev III gua lev III gua lev III gua 0°C to +4 -15°C to	x80 mm 7 / 50-60 Hz 2 nun ranteed ranteed ranteed 40°C +70°C							

Connectors

Fuse

TECHNICAL

Coil-brake output relay

Actuator control output

Weight

CE marking

Approval

screws

5 A - 230 V

by triac 5 A max

5 A max

0,935 kg

yes



SOMFY® 12/02/1998

DMKI - FPTE RANGE 1 FTS50Range1R0

Nominal voltage	230 V - 50 Hz
Power supply tolerances	207 - 244V
Thermal time	8 minutes
System thermal time	dynamic brake and final tension mini:21 minutes
	dynamic brake and final tension max : 15 minutes
Number of wires of the cable	5 Non removable 1 m RR-F black cable (2,5 m for the 35/12)
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	46 turns
Repeatability	± 5°
System of protection	IP 44
Interface drawings	Screw implantation for LT50 mounting 206810-Wheel interface LT50 206821-Crown interface LT50 206822-Interface drawing star head LT50 and
	LT50PA/PS 206823-Interface drawing LT50&60 buttons 206817.
Basic crown for tube Ø	50 x 1,5 mm
Electronic control box	Ref. ESFT726120 (230V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	S		kg	dBA
Designation	Nominal	Nominal	reference	L1 max.	L2 (±3	L3 max.	tube	Rated	Rated	Thermal	Brake type	Weight	Noise
3	torque	speed			mm)			power	current	tripping			
FTS Gemini	2 5	17	200521	655	640	663	590	180	0,95	130	coil brake	2,93	-
FTS Apollo	35	12	200545*	655	640	663	590	180	0,95	130	coil brake	3,1	-

* Specific for Somfy France



Visa : BEM	Quality	MKI	
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		K	

DMKI - FPTE RANGE 2 FTS50Range2R0

Nominal voltage	120 V - 60 Hz
Power supply tolerances	108 - 126V
Thermal time	8 minutes
System thermal time	dynamic brake and final tension mini: 16 minutes
	dynamic brake and final tension max : 13 minutes
Number of wires of the cable	5 Non removable 2 m VV-F white cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	46 turns
Repeatability	± 5°
System of protection	
Interface drawings	Screw implantation for LT50 mounting 206810-Wheel interface LT50 206821-Crown interface LT50 206822-Interface drawing star head LT50 and
	LT50PA/PS 206823-Interface drawing LT50&60 buttons 206817.
Basic crown for tube Ø	50 x 1,5 mm
Electronic control box	Ref. ESFT826140 (110V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm / in.Lbs	rpm		mm	mm	mm	mm	W	А	ĉ		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 525A2	25/220	2 0	200542	655	640	663	490	170	1,5	130	coil brake	2,95	-



Visa : BEM Quality MKI	
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5(Ξ	Y	12/0
			R	

FTS 50 TECHNICAL DATA

DMKI - FPTE RANGE 3 FTS50Range3R0

Nominal voltage	100 V - 50/60 Hz
Power supply tolerances	95 - 107 V
Thermal time	8 minutes
System thermal time	dynamic brake and final tension mini: 17 minutes
	dynamic brake and final tension max : 13 minutes
Number of wires of the cable	5 Non removable 1 m VV-F grey cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	46 turns
Repeatability	$\pm 5^{\circ}$
System of protection	IP 44
Interface drawings	Screw implantation for LT50 mounting 206810-Wheel interface LT50 206821-Crown interface LT50 206822-Interface drawing star head LT50 and
	LT50PA/PS 206823-Interface drawing LT50&60 buttons 206817.
Basic crown for tube Ø	50 x 1,5 mm
Electronic control box	Ref. ESFT826140 (110V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	ĉ		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 525A3	2 5	17/20	200540	655	640	663	590	250	2,35	130	coil brake	2,95	-



Visa : BEM Quality MKI

	EV	10/
	R	/

FTS 50 TECHNICAL DATA

DMKI - FPTE RANGE 4 FTS50Range4R0

Nominal voltage	200 V - 50/60 Hz
Power supply tolerances	180 - 220 V
Thermal time	8 minutes
System thermal time	dynamic brake and final tension mini: 20 minutes
	dynamic brake and final tension max: 14 minutes
Number of wires of the cable	5 Non removable 1 m RR-F black cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	46 turns
Repeatability	± 5°
System of protection	IP 44
Interface drawings	Screw implantation for LT50 mounting 206810-Wheel interface LT50 206821-Crown interface LT50 206822-Interface drawing star head LT50 and
	LT50PA/PS 206823-Interface drawing LT50&60 buttons 206817.
Basic crown for tube Ø	50 x 1,5 mm
Electronic control box	Ref. ESFT726120 (230V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	ĉ		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 525A4	2 5	17/20	200541	655	640	663	590	170	1,25	130	coil brake	2,93	-



Visa : BEM Quality MKI	
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50	FY	12/0
	R	12/0

FTS 50 TECHNICAL DATA

DMKI - FPTE RANGE 5 FTS50Range5R0

Nominal voltage	240 V - 50 Hz
Power supply tolerances	225 - 254 V
Thermal time	8 minutes
System thermal time	dynamic brake and final tension mini: 16 minutes
	dynamic brake and final tension max: 12 minutes
Number of wires of the cable	5 Non removable 1 m RR-F black cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	46 turns
Repeatability	± 5°
System of protection	IP 44
Interface drawings	Screw implantation for LT50 mounting 206810-Wheel interface LT50 206821-Crown interface LT50 206822-Interface drawing star head LT50 and
	LT50PA/PS 206823-Interface drawing LT50&60 buttons 206817.
Basic crown for tube Ø	50 x 1,5 mm
Electronic control box	Ref. ESFT726120 (230V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	ĉ		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 525A5	2 5	17	200544	655	640	663	590	180	0,95	130	coil brake	2,93	-



Visa : BEM Quality MKI	
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/ C

FTS 50 TECHNICAL DATA

DMKI - FPTE RANGE 6 FTS50Range6R0

Nominal voltage	220 V - 60 Hz
Power supply tolerances	190 - 235 V
Thermal time	8 minutes
System thermal time	dynamic brake and final tension mini: 19 minutes
	dynamic brake and final tension max : 15 minutes
Number of wires of the cable	5 Non removable 1 m RR-F black cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	46 turns
Repeatability	± 5°
System of protection	
Interface drawings	Screw implantation for LT50 mounting 206810-Wheel interface LT50 206821-Crown interface LT50 206822-Interface drawing star head LT50 and
	LT50PA/PS 206823-Interface drawing LT50&60 buttons 206817.
Basic crown for tube Ø	50 x 1,5 mm
Electronic control box	Ref. ESFT726120 (230V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	ĉ		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 525A6	2 5	20	200543	655	640	663	590	200	0,9	130	coil brake	2,93	-



Visa : BEM Quality MKI	
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DMKI - FPTE RANGE 1 FTS60Range1R0

230 V - 50 Hz
207 - 244V
7 minutes
dynamic brake and final tension mini: 20 minutes
dynamic brake and final tension max : 11 minutes
5 Non removable 1 m RR-F black cable
0,75 mm2
Quick limit switch
35 turns
± 5°
IP 44
Wheel interface LT60 206801-Crown interface LT60, LT60ADF, FTS60 & LT60CSI 206802-Interface drawing star head LT60 206803-Interface drawing
LT50&60 buttons 206817.
63 x 1,5 mm
Ref. ESFT726120 (230V/50-60Hz)
Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	ĉ		kg	dBA
Designation	Nominal	Nominal	reference	L1 max.	L2	L3 max.	tube	Rated	Rated	Thermal	Brake type	Weight	Noise
Ũ	torque	speed			(±3 mm)			power	current	tripping			
FTS Orion S	5 5	17	200501	694	677	700	630	350	1,5	140	coil brake	5	-
FTS Antares	7 0	17	200502	694	677	700	630	390	1,9	150	coil brake	5,1	-





Visa : BEM Quality MKI	
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DMKI - FPTE RANGE 2 FTS60Range2R0

Nominal voltage	120 V - 60 Hz
Power supply tolerances	108 - 126V
Thermal time	7 minutes
System thermal time	dynamic brake and final tension mini:17 minutes
	dynamic brake and final tension max : 12 minutes
Number of wires of the cable	5 Non removable 2 m VV-F white cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	35 turns
Repeatability	± 5°
System of protection	JP 44
Interface drawings	Wheel interface LT60 206801-Crown interface LT60, LT60ADF, FTS60 & LT60CSI 206802-Interface drawing star head LT60 206803-Interface drawing
	LT50&60 buttons 206817.
Basic crown for tube Ø	63 x 1,5 mm
Electronic control box	Ref. ESFT826140 (110V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm / in.Lbs	rpm		mm	mm	mm	mm	W	A	ĉ		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 655A2	55/487	20	200507	694	677	700	630	285	2,1	140	coil brake	5	-



Visa : BEM Quality MKI



DMKI - FPTE RANGE 3 FTS60Range3R0

Nominal voltage	100 V - 50/60 Hz
Power supply tolerances	95 - 107V
Thermal time	7 minutes
System thermal time (50 Hz)	dynamic brake and final tension mini : 17 minutes
	dynamic brake and final tension max : 13 minutes
Number of wires of the cable	5 Non removable 1 m VV-F grey cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	35 turns
Repeatability	$\pm 5^{\circ}$
System of protection	IP 44
Interface drawings	Wheel interface LT60 206801-Crown interface LT60, LT60ADF, FTS60 & LT60CSI 206802-Interface drawing star head LT60 206803-Interface drawing
	LT50&60 buttons 206817.
Basic crown for tube Ø	63 x 1,5 mm
Electronic control box	Ref. ESFT826140 (110V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	c		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 655A3	5 5	17/20	200515	964	677	700	630	440	4,3	140	coil brake	5	-



Visa : BEM Quality MKI	
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DMKI - FPTE RANGE 4 FTS60Range4R0

Nominal voltage	200 V - 50/60 Hz
Power supply tolerances	180 - 220V
Thermal time	7 minutes
System thermal time (50 Hz)	dynamic brake and final tension mini:17 minutes
	dynamic brake and final tension max : 12 minutes
Number of wires of the cable	5 Non removable 1 m RR-F black cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	35 turns
Repeatability	± 5°
System of protection	IP 44
Interface drawings	Wheel interface LT60 206801-Crown interface LT60, LT60ADF, FTS60 & LT60CSI 206802-Interface drawing star head LT60 206803-Interface drawing
	LT50&60 buttons 206817.
Basic crown for tube Ø	63 x 1,5 mm
Electronic control box	Ref. ESFT726120 (230V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	°C		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 655A4	55	17/20	200516	694	677	700	630	420	2,1	140	coil brake	5	-



Visa : BEM Quality MKI	
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DMKI - FPTE RANGE 5 FTS60Range5R0

Nominal voltage	240 V - 50 Hz
Power supply tolerances	225 - 254V
Thermal time	7 minutes
System thermal time	dynamic brake and final tension mini: 16 minutes
	dynamic brake and final tension max: 13 minutes
Number of wires of the cable	5 Non removable 1 m RR-F black cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	35 turns
Repeatability	$\pm 5^{\circ}$
System of protection	IP 44
Interface drawings	Wheel interface LT60 206801-Crown interface LT60, LT60ADF, FTS60 & LT60CSI 206802-Interface drawing star head LT60 206803-Interface drawing
	LT50&60 buttons 206817.
Basic crown for tube Ø	63 x 1,5 mm
Electronic control box	Ref. ESFT726120 (230V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	c		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 655A5	5 5	17	200505	694	677	700	630	380	1,6	140	coil brake	5	-



Visa : BEM Quality MKI



DMKI - FPTE RANGE 6 FTS60Range6R1

Nominal voltage	220 V - 60 Hz
Power supply tolerances	190 - 235V
Thermal time	7 minutes
System thermal time	dynamic brake and final tension mini:16 minutes
	dynamic brake and final tension max : 13 minutes
Number of wires of the cable	5 Non removable RR-F black cable
Wire section	0,75 mm2
Type of limit switch unit	Quick limit switch
Capacity of the LSU	35 turns
Repeatability	± 5°
System of protection	IP 44
Interface drawings	Wheel interface LT60 206801-Crown interface LT60, LT60ADF, FTS60 & LT60CSI 206802-Interface drawing star head LT60 206803-Interface drawing
	LT50&60 buttons 206817.
Basic crown for tube Ø	63 x 1,5 mm
Electronic control box	Ref. ESFT726120 (230V/50-60Hz)
Temperature working range	Normal use : -10°C to +40°C Exceptionnal use (20% of the life time not continuous) : -25°C to + 70°C
Noise level	According to SOMFY measures (for information only). Worse value : in load up direction during 10 seconds.

	Nm	rpm		mm	mm	mm	mm	W	А	ĉ		kg	dBA
Designation	Nominal torque	Nominal speed	reference	L1 max.	L2 (±3 mm)	L3 max.	tube	Rated power	Rated current	Thermal tripping	Brake type	Weight	Noise
FTS 650A6	50	20	200508	694	677	700	630	350	1,4	140	coil brake	5	-



Visa : DT	Quality	GMD	
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