

E-TORK® Electric Linear Actuator

FTL201

1 kN

Max. Thrust

0.5 kN max. Modulating Thrust)¹

0.25 - 1.0 mm/s

Operating Speed

max. 50 mm

Stroke

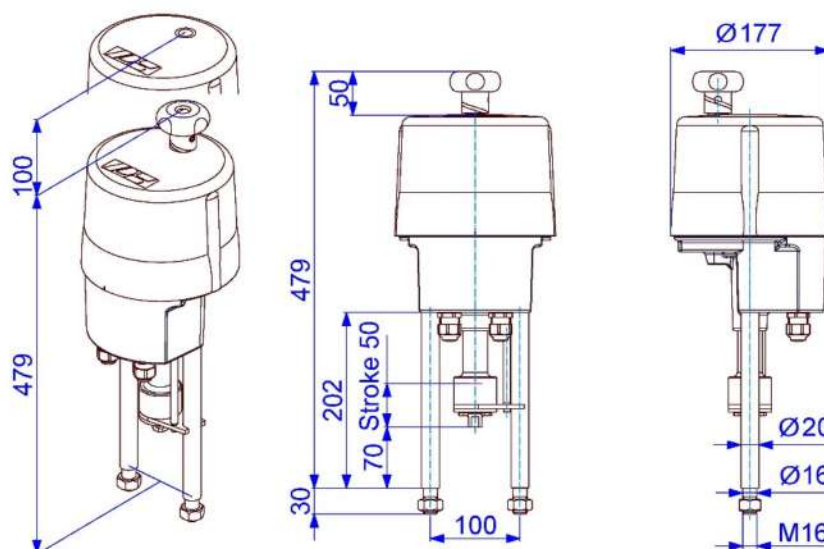
Modulating Actuator

Class C

EN 15714-2

Enclosure IP65

EN 60529



Approx. weight: 4.4 kg without accessories

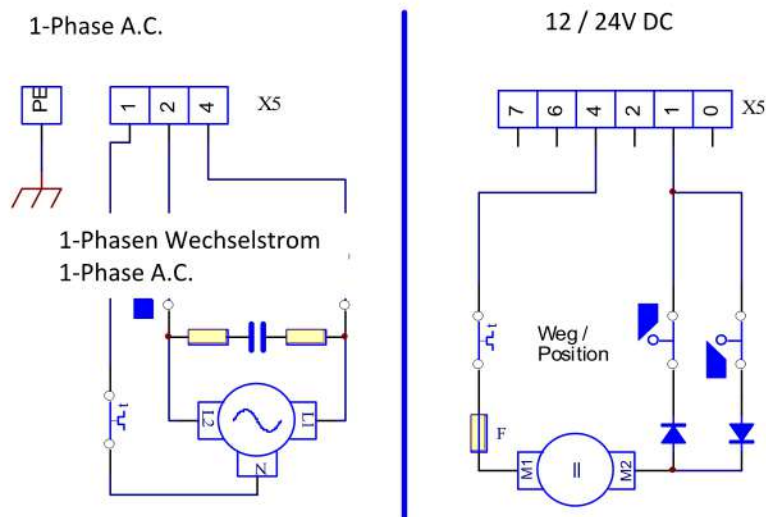
Dimensions are valid for connections M8-M12 only!

Velocity	0.25 mm/s [50Hz] / 0.3 mm/s [60Hz]					FTL201
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60			
Rated Current [A]	0.03	0.07	0.33			
max. Current [A]	0.04	0.08	0.4			
Power Consumption) ² [W]	8	8	8			
Duty Cycle IEC 60034-1	S2 30min / S4 80% ED @ 25°C					
Ambient Temperature [°C]	-20°C to +80°C (S2) / -20°C to +60°C (S4)					
Overvoltage Category	II					
Motor Protection	blockable					
Velocity					1.00 mm/s	FTL201.1
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]					-	
Rated Current [A]					1	
max. Current [A]					2.5	
Power Consumption) ² [W]					7.2	
Duty Cycle IEC 60034-1					S2 30 min @25°C	
Ambient Temperature [°C]					see above	
Overvoltage Category					II	
Motor Protection					Multifuse	

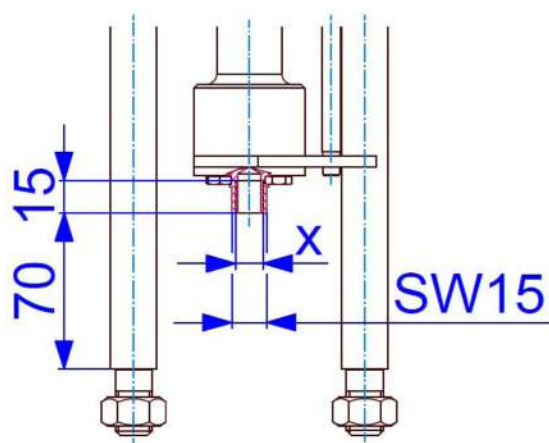
)¹ = Permissible average thrust over the entire travel

)² = at max. thrust

Wiring Diagram



Dimensions of the PS-Standard-Adaptation

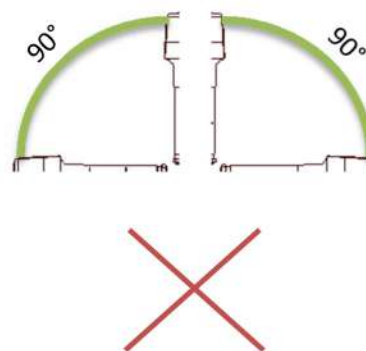


Connection Thread X

M8	Optional
M10	Optional
M12	Standard
M14	Optional
M16	Optional

*Fine Threaded and
other sizes on request!*

Mounting Position



Dimensions are valid for connections M8-M12 only!

Accessories/ Options	Supply Voltage	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
	Position Signal Switch 2WE	•	•	•		•
	Position Signal 2WE	•	•	•		•
	Switches Gold	•	•	•		•
	Positioner PSAP	•	•	•		
	Position Transmitter PSPT	•	•	•		•
	Space Heater HR	•	•	•		•
	Potentiometer PD	•	•	•		•
	Reversing Starter					
	Contactor WSM01					
	IP67 Metal Cover IP	Increase of enclosure to IP67				see left

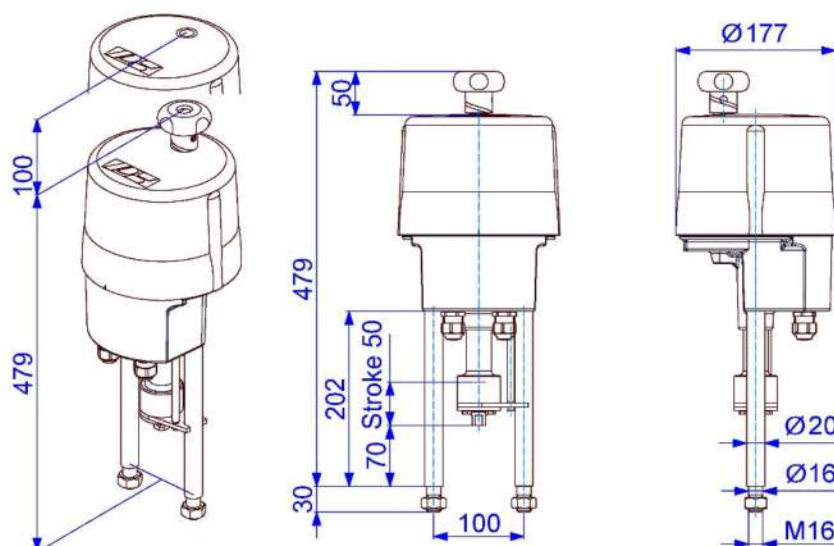
For more information and accessories, please visit our website www.ps-automation.com!

• = available, for further information see respective datasheet

Subject to changes!

E-TORK® Electric Linear Actuator

FTL202



2 kN
Max. Thrust
1 kN max. Modulating Thrust)¹

0.25 - 1.4 mm/s
Operating Speed

max. 50 mm
Stroke

Modulating Actuator
Class C
EN 15714-2

Enclosure IP65
EN 60529

Approx. weight: 4.5 kg without accessories Dimensions are valid for connections M8-M12

Velocity	0.5 mm/s [50Hz] / 0.6 mm/s [60Hz]				0.45 mm/s	FTL202
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60		-	
Rated Current [A]	0.05	0.1	0.5		0.35	
max. Current [A]	0.07	0.13	0.6		0.63	
Power Consumption) ² [W]	12	12	12		8	
Duty Cycle IEC 60034-1	S2 30min / S4 80% ED @ 25°C				see left	
Ambient Temperature [°C]	-20°C to +80°C (S2) / -20°C to +60°C (S4)				see left	
Overvoltage Category	II				II	
Motor Protection	blockable				Multifuse	

Velocity	0.25 mm/s [50Hz] / 0.3 mm/s [60Hz]				FTL202.1
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
Frequency [Hz]	50 / 60	50 / 60	50 / 60		
Rated Current [A]	0.03	0.07	0.33		
max. Current [A]	0.04	0.08	0.4		
Power Consumption) ² [W]	8	8	8		
Duty Cycle IEC 60034-1	S2 30min / S4 80% ED @ 25°C				
Ambient Temperature [°C]	-20°C to +80°C (S2) / -20°C to +60°C (S4)				
Overvoltage Category	II				
Motor Protection	blockable				

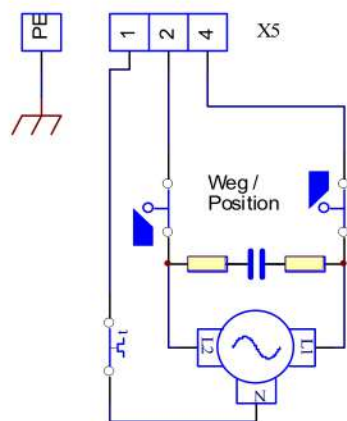
Velocity	1.4 mm/s [50Hz] / 1.7 mm/s [60Hz]				1 mm/s	FTL202.2
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	-	
Rated Current [A]	0.11	0.22	1	0.13	1	
max. Current [A]	0.13	0.26	1.3	0.18	2.5	
Power Consumption) ² [W]	25	25	25	30	12	
Duty Cycle IEC 60034-1	S2 30min / S4 50% ED @ 25°C					
Ambient Temperature [°C]	-20°C to +80°C (S2) / -20°C to +60°C (S4)					
Overvoltage Category	II					
Motor Protection	Thermo switch				Multifuse	

)¹ = Permissible average thrust over the entire travel

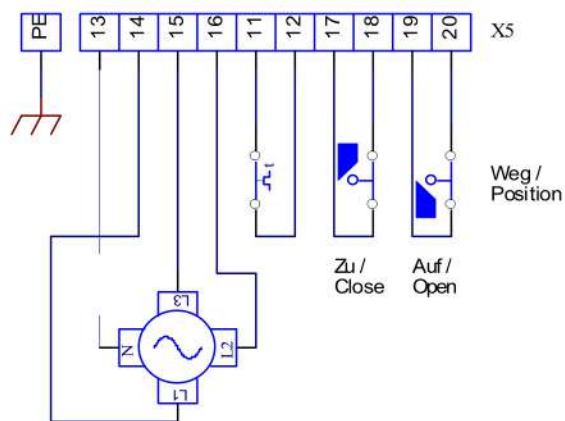
)² = at max. thrust

Wiring Diagram

1-Phase A.C.

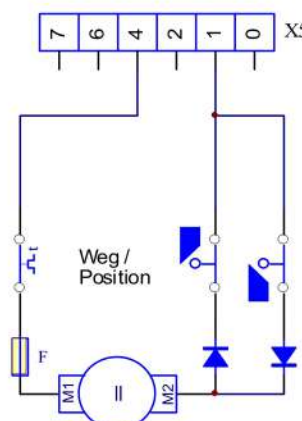
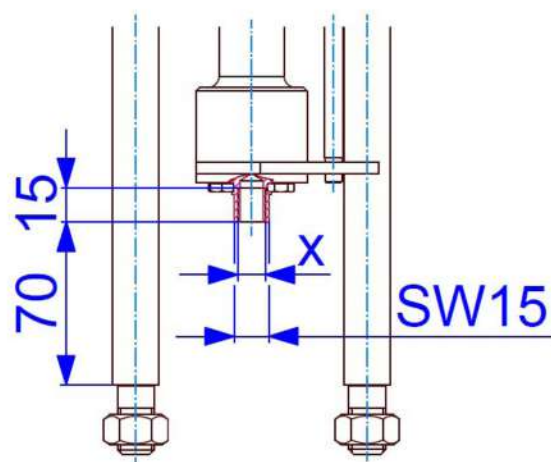


3-Phase A.C.



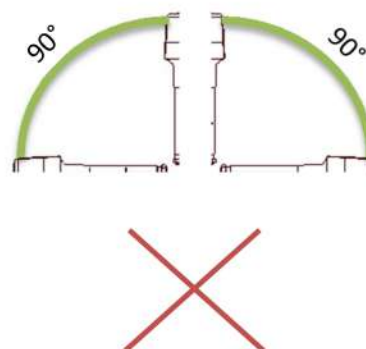
Index C

12 / 24V DC

Dimensions of the PS-Standard-AdaptationConnection Thread X

M8	Optional
M10	Optional
M12	Standard
M14	Optional
M16	Optional

*Fine Threaded and
other sizes on request!*

Mounting Position

Dimensions are valid for connections M8-M12 only!

Accessories/ Options	Supply Voltage	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
	Position Signal Switch 2WE	•	•	•	•	•
	Position Signal Switches Gold	•	•	•	•	•
	Positioner PSAP	•	•	•	•) ³	
	Position Transmitter PSPT	•	•	•	•	•
	Space Heating HR	•	•	•	•) ⁴	•
	Potentiometer PD	•	•	•	•	•
	Reversing Starter Contactor WSM01				•	
	IP67 Metal Cover IP	Increase of enclosure to IP67				

For more Informations and Accessories, see "Standard Accessories"!

• = available, for further information see respective datasheet

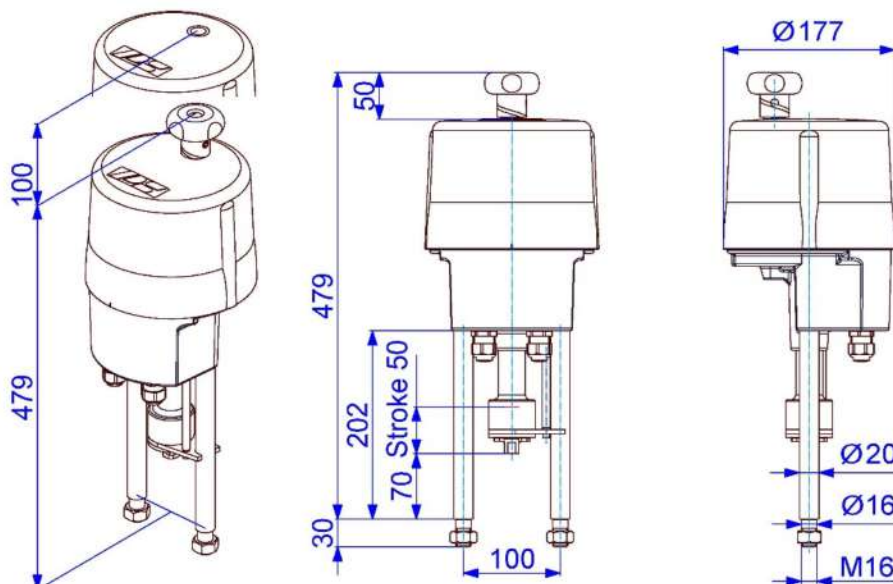
)³ = only to be used with reversing starter contactor

)⁴ = supply voltage 24 V or 115-230 V

Subject to changes!

E-TORK® Electric Linear Actuator

FTL204



Approx. weight: 4.5 kg without accessories

Dimensions are valid for connections M8-M12 only!

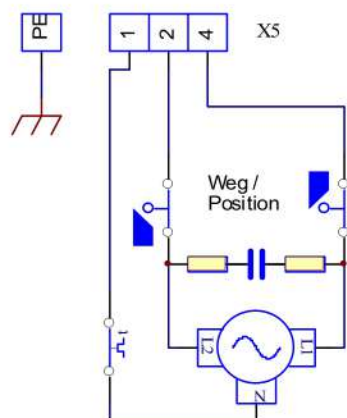
Velocity	0.5 mm/s [50 Hz] / 0.6 mm/s [60 Hz]					FTL204
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60			
Rated Current [A]	0.08	0.17	0.79			
max. Current [A]	0.08	0.2	0.95			
Power Consumption) ² [W]	18	19	19			
Duty Cycle IEC 60034-1	S2 30min / S4 80% ED @ 25°C					
Ambient Temperature [°C]	-20°C to +80°C (S2) / -20°C to +60°C (S4)					
Overvoltage Category	II					
Motor Protection	Thermo switch					
Velocity	1.0 mm/s [50 Hz] / 1.2 mm/s [60 Hz]				1.00 mm/s	FTL204.1
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60		-	
Rated Current [A]	0.23	0.43	2.1		0.1	
max. Current [A]	0.27	0.52	2.5		2.5	
Power Consumption) ² [W]	52	49	49		24	
Duty Cycle IEC 60034-1	S2 30min / S4 50% ED @ 25°C				see left	
Ambient Temperature [°C]	-20°C to +80°C (S2) / -20°C to +60°C (S4)				see left	
Overvoltage Category	II				II	
Motor Protection	Thermo switch				Multifuse	
Velocity	1.4 mm/s [50 Hz] / 1.7 mm/s [60 Hz]				24 VDC	FTL204.2
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60		
Rated Current [A]	0.27	0.57	2.71	0.21		
max. Current [A]	0.33	0.68	3.3	0.26		
Power Consumption) ² [W]	64	64	64	51		
Duty Cycle IEC 60034-1	S2 30min / S4 50% ED @ 25°C					
Ambient Temperature [°C]	-20°C to +80°C (S2) / -20°C to +60°C (S4)					
Overvoltage Category	II					
Motor Protection	Thermo switch					

)1 = Permissible average thrust over the entire travel

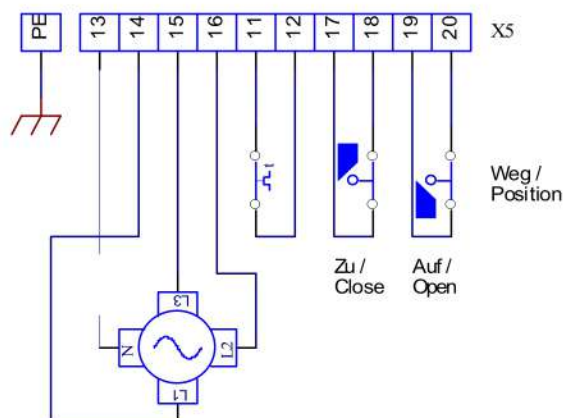
)² = at max. thrust

Wiring Diagram

1-Phase A.C.

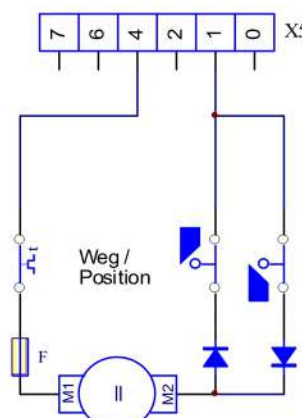


3-Phase A.C.

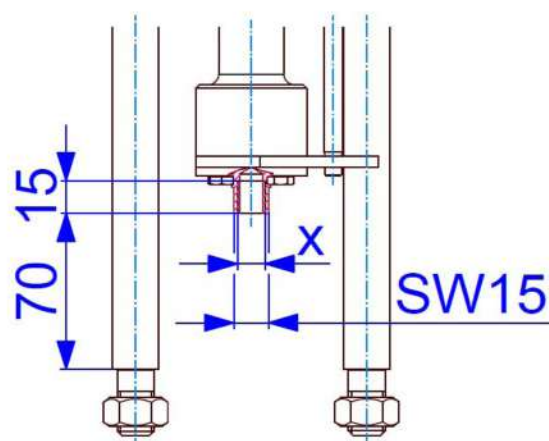


Index C

12 / 24V DC



Dimensions of the PS-Standard-Adaptation

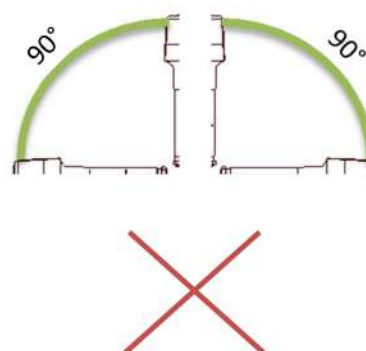


Connection Thread X

M8	Optional
M10	Optional
M12	Standard
M14	Optional
M16	Optional

*Fine Threaded and
other sizes on request!*

Mounting Position



Dimensions are valid for connections M8-M12!

Accessories/ Options	Supply Voltage	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
	Position Signal Switch 2WE	•	•	•	•	•
	Position Signal Switches Gold	•	•	•	•	•
	Positioner PSAP	•	•	•) ³	•) ⁴	
	Position Transmitter PSPT	•	•	•	•	•
	Space Heating HR	•	•	•	•) ⁵	•
	Potentiometer PD	•	•	•	•	•
	Reversing Starter Contactor WSM01				•	
	IP67 Metal Cover IP	Increase of enclosure to IP67				

For more information and accessories, see "Standard Accessories"!

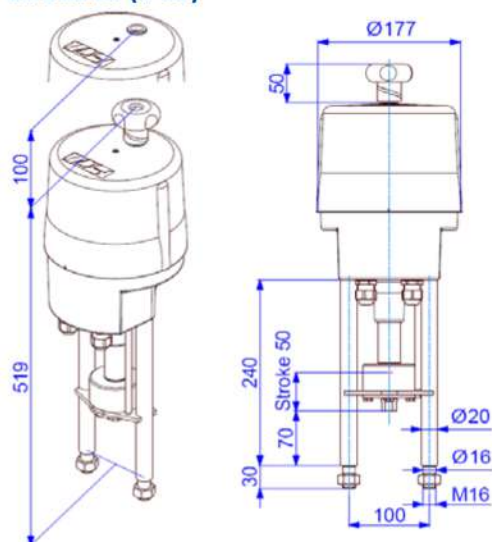
• = available, for further information see respective datasheet

)³ = PSAP with external relay required

)⁴ = only to be used with reversing starter contactor

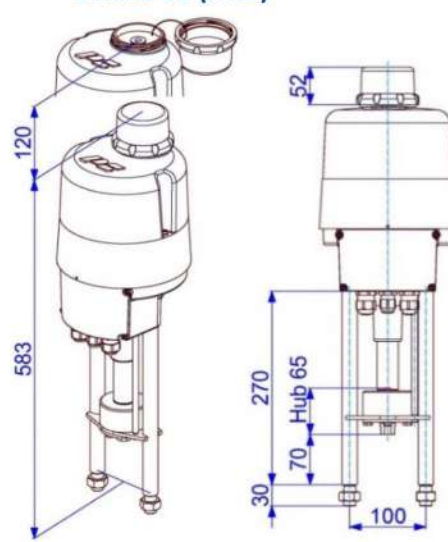
)⁵ = supply voltage 24 V or 115-230 V

Subject to changes!

Stroke 50 (IP65)


Dimensions are valid for connections M16 only!

Approx. weight: 7.2 kg without accessories

Stroke 65 (IP67)


Dimensions are valid for connections M16 only!

Approx. weight: 9.2 kg without accessories

8/10 kN
Max. Thrust
4/5 kN max.
0.45 - 1.0 mm/s
Operating Speed
Stroke 50 mm
opt. 65 mm
Modulating Actuator
Class C
EN 15714-2
Enclosure IP65
EN 60529

Velocity	0.65 mm/s [50Hz] / 0.78 mm/s [60Hz]				0.5 mm/s
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	-
Rated Current [A]	0.23	0.45	2.3	0.13	1.0
max. Current [A]	0.27	0.54	2.8	0.15	2.5
Power Consumption) ² [W]	52	52	52	30	24
Duty Cycle IEC 60034-1	S2 30min / S4 50% ED @ 25° C				
Ambient Temperature [°C]	-20 to +80 (S2) / -20 to +60 (S4)				
Overvoltage Category	II				
Motor Protection	Thermo switch				Multifuse

FTL208

Velocity	1.0 mm/s [50Hz] / 1.2 mm/s [60Hz]				24 VDC
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	-
Rated Current [A]	0.26	0.52	2.5	0.2	1.0
max. Current [A]	0.31	0.63	3	0.23	2.5
Power Consumption) ² [W]	59	59	59	47	24
Duty Cycle IEC 60034-1	S2 30min / S4 50% ED @ 25° C				
Ambient Temperature [°C]	-20 to +80 (S2) / -20 to +60 (S4)				
Overvoltage Category	II				
Motor Protection	Thermo switch				Multifuse

FTL208.1

Velocity	0.45 mm/s [50Hz] / 0.54 mm/s [60Hz]				0.35 mm/s
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
Frequency [Hz]	50 / 60	50 / 60	50 / 60	-	-
Rated Current [A]	0.23	0.45	2.3	-	1
max. Current [A]	0.27	0.54	2.8	-	2.5
Power Consumption) ² [W]	52	52	52	-	24
Duty Cycle IEC 60034-1	S2 30min / S4 50% ED @ 25° C				
Ambient Temperature [°C]	-20 to +80 (S2) / -20 to +60 (S4)				
Overvoltage Category	II				
Motor Protection	Thermo switch				Multifuse

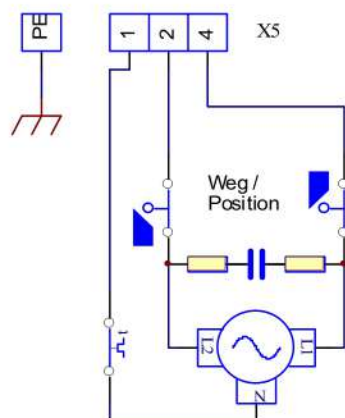
FTL210

)¹ = Permissible average thrust over the entire travel

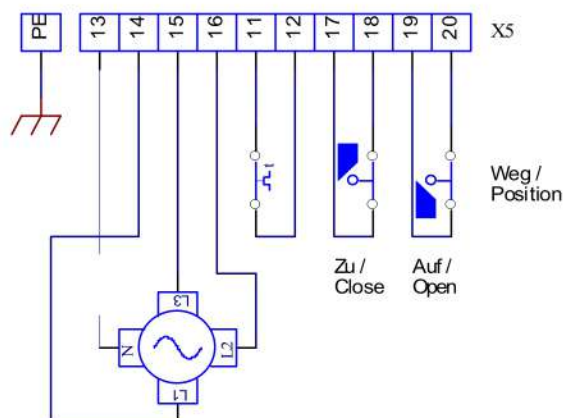
)² = at max. thrust

Wiring Diagram

1-Phase A.C.

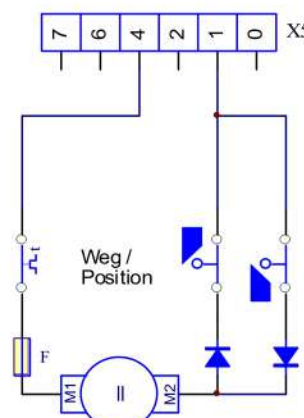
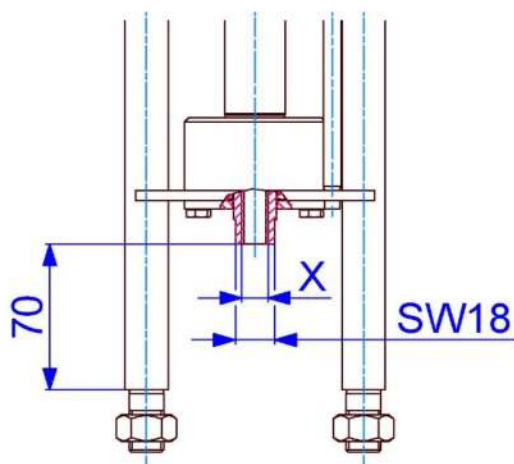


3-Phase A.C.



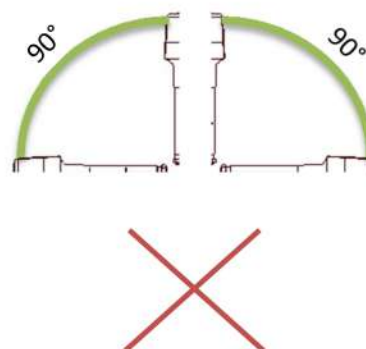
Index C

12 / 24V DC

Dimensions of the PS-Standard-AdaptationConnection Thread X

M8	Optional
M10	Optional
M12	Optional
M14	Optional
M16	Standard

*Fine Threaded and
other sizes on request!*

Mounting Position

Dimensions are valid for connections M16 only!

Accessories/ Options	Supply Voltage	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
	Position Signal Switch 2WE	•	•	•	•	•
	Position Signal Switches Gold	•	•	•	•	•
	Positioner PSAP	•	•	•) ³	•) ⁴	
	Position Transmitter PSPT	•	•	•	•	•
	Space Heating HR	•	•	•	•) ⁵	•
	Potentiometer PD	•	•	•	•	•
	Reversing Starter Contactor WSM01				•	
	IP67 Metal Cover IP	Increase of enclosure to IP67				

For more information and accessories, please visit our website www.ps-automation.com!

• = available, for further information see respective datasheet

)³ = PSAP with external relay required

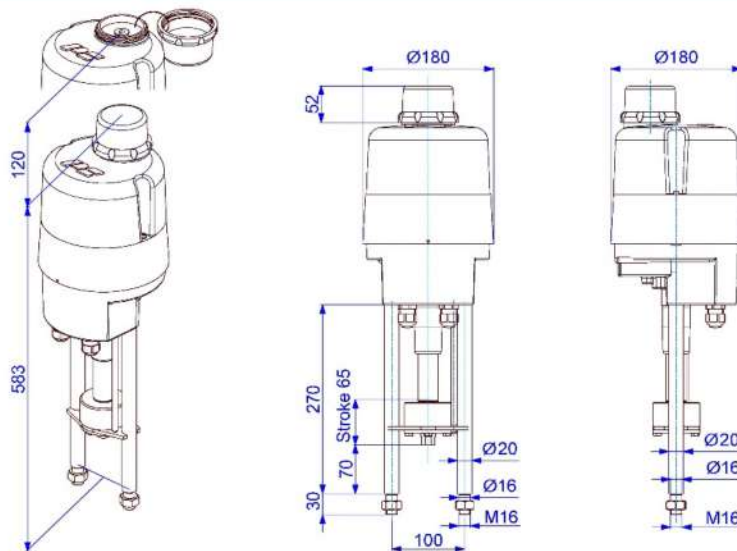
)⁴ = only to be used with reversing starter contactor

)⁵ = supply voltage 24 V or 115-230 V

Subject to changes!

E-TORK® Electric Linear Actuator

FTL214



14 kN

Max. Thrust

7 kN max. Modulating Thrust)¹

0.45 mm/s

Operating Speed

max. 65 mm

Stroke

Class C

acc. to EN 15714-2

Enclosure IP67

EN 60529

Approx. weight: 8 kg without accessories

Connections are only valid for M16!

Velocity	0.45 mm/s [50 Hz] / 0.54 mm/s [60 Hz]				
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	-
Rated Current [A]	0.23	0.45	2.3	0.13	on request
max. Current [A]	0.27	0.54	2.8	0.15	2.5
Power Consumption) ² [VA]	52	52	52	30	93
Duty Cycle IEC 60034-1	S2 30min / S4 50% ED @ 25° C				
Ambient Temperature [°C]	-20 to +80 (S2) / -20 to +60 (S4)				
Overvoltage Category	II				
Motor Protection	Thermo switch				Multifuse

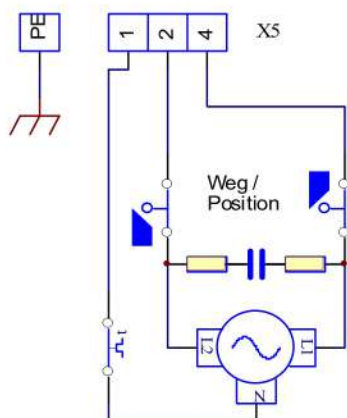
FTL214

)¹ = Permissible average thrust over the entire travel

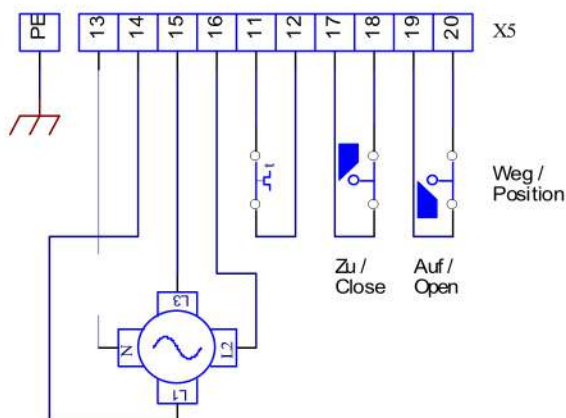
)² = at max. thrust

Wiring Diagramm

1-Phase A.C.

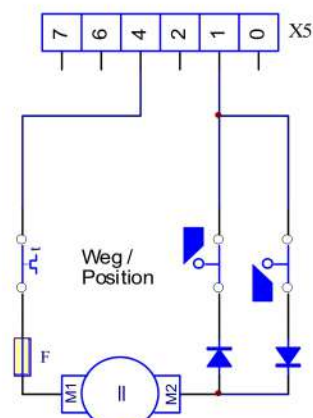
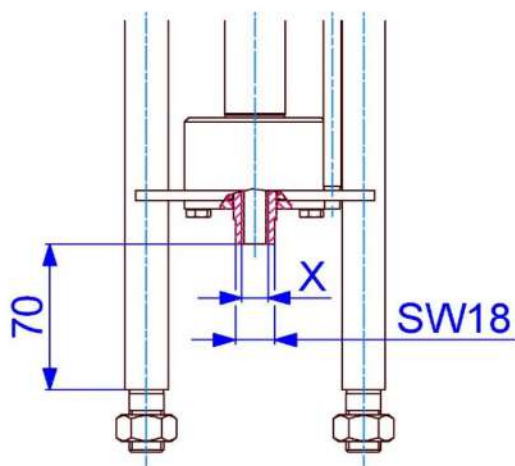


3-Phase A.C.



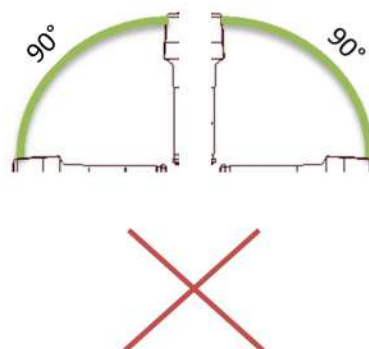
Index C

12 / 24V DC

Dimensions of the PS-Standard-AdaptationConnection Thread X

M8	Optional
M10	Optional
M12	Optional
M14	Optional
M16	Standard

*Fine Threaded and
other sizes on request!*

Mounting Position**Accessories/
Options**

Supply Voltage	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
Position Signal Switch 2WE	•	•	•	•	•
Position Signal Switches Gold	•	•	•	•	•
Positioner PSAP	•	•	• ³	• ⁴	
Position Transmitter PSPT	•	•	•	•	•
Space Heating HR	•	•	•	• ⁵	•
Potentiometer PD	•	•	•	•	•
Reversing Starter Contactor WSM01				•	

For more information and accessories, please visit our website www.ps-automation.com!

• = available, for further information see respective datasheet

³ = PSAP with external relay required

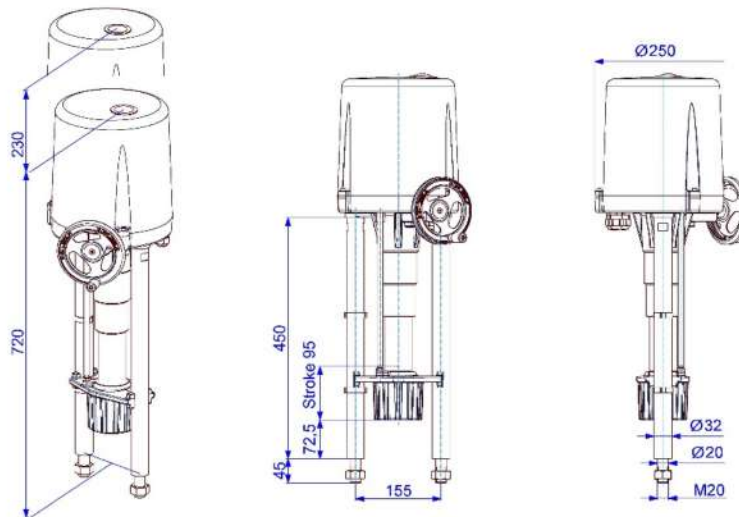
⁴ = only to be used with reversing starter contactor

⁵ = supply voltage 24 V or 115-230 V

Subject to changes!

E-TORK® Electric Linear Actuator

FTL320/325



20/25 kN

Max. Thrust

10/12.5 kN max. Modulating Thrust)¹

1.0 mm/s

Operating Speed

max. 95 mm

Stroke

Modulating Actuator

Class C

EN 15714-2

Enclosure IP65

EN 60529

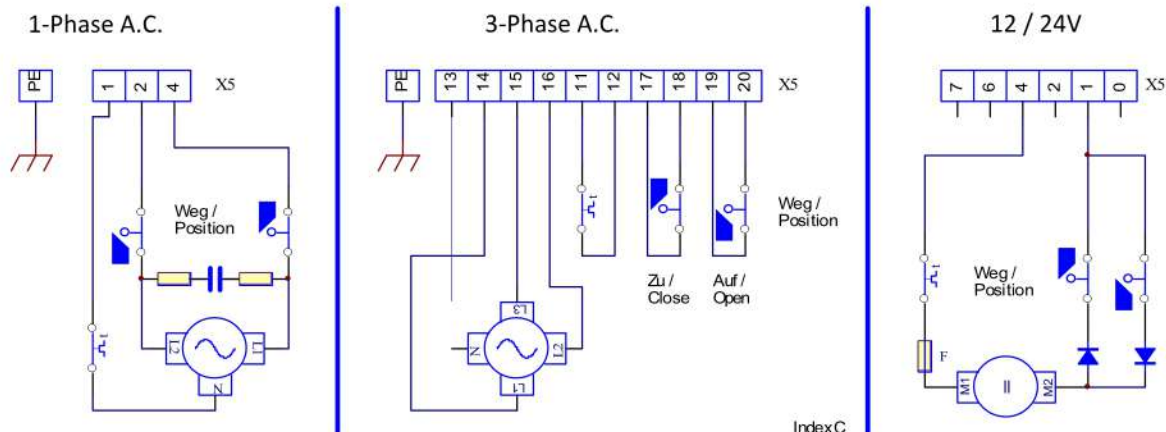
Approx. weight: 23 kg without accessories

Velocity	1.0 mm/s [50Hz] / 1.2 mm/s [60Hz]				0.4 mm/s	FTL320
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	-	
Rated Current [A]	0.58	1.2	6.0	0.4	2.6	
max. Current [A]	0.95	1.9	8.5	0.6	8	
Power Consumption) ² [W]	137	140	145	120	63	
Duty Cycle IEC 60034-1,8	S2 30min / S4 50% ED @ 25° C					
Ambient Temperature [°C]	-20 bis +80 (S2) / -20 bis +60 (S4)					
Overvoltage Category	II					
Motor Protection	Thermo switch				Multifuse	FTL325
Velocity	1.0 mm/s [50Hz] / 1.2 mm/s [60Hz]				0.4 mm/s	
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC	
Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60		
Rated Current [A]	0.62	1.2	6.5	0.5		
max. Current [A]	0.95	1.9	8.5	0.6		
Power Consumption) ² [W]	145	145	160	140		
Duty Cycle IEC 60034-1,8	S2 30min / S4 50% ED @ 25° C					
Ambient Temperature [°C]	-20 bis +80 (S2) / -20 bis +60 (S4)					
Overvoltage Category	II					
Motor Protection	Thermo switch					

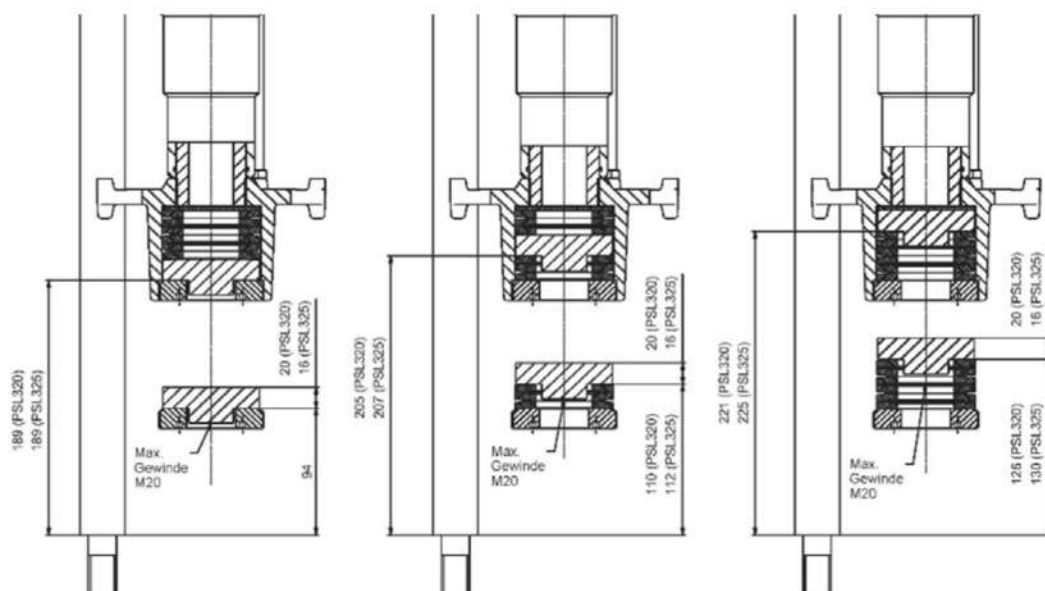
)¹ = Permissible average thrust over the entire travel

)² = at max. thrust

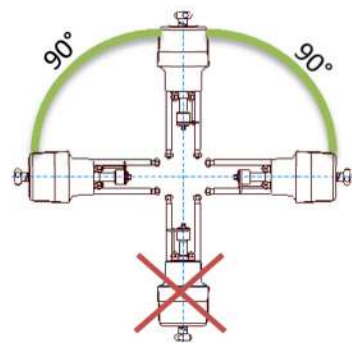
Wiring Diagram



Dimensions of the PS-Standard-Adaptation



Mounting Position



Accessories/ Options	Supply Voltage	230 VAC 1~	115 VAC 1~	24 VAC 1~	400 V 3~	24 VDC
	Position Signal Switch 2WE	•	•	•	•	•
	Position Signal Switches Gold	•	•	•	•	•
	Positioner PSAP	•	• ³	• ³	• ⁴	
	Position Transmitter PSPT	•	•	•	•	•
	Space Heating HR	•	•	•	• ⁵	•
	Potentiometer PD	•	•	•	•	•
	Reversing Starter Contactor WSM01				•	
	IP67 Metal Cover IP					

For more information and accessories, please visit our website www.ps-automation.com!

• = available, for further information see respective datasheet

³ = PSAP with external relay required

⁴ = only to be used with reversing starter contactor

⁵ = supply voltage 24 V or 115-230 V

Subject to changes!