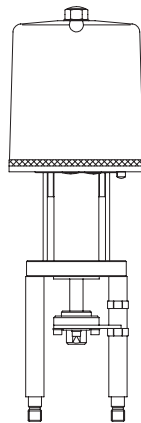


Electric thrust actuator FR 2.1 / FR 2.2
with safety reset

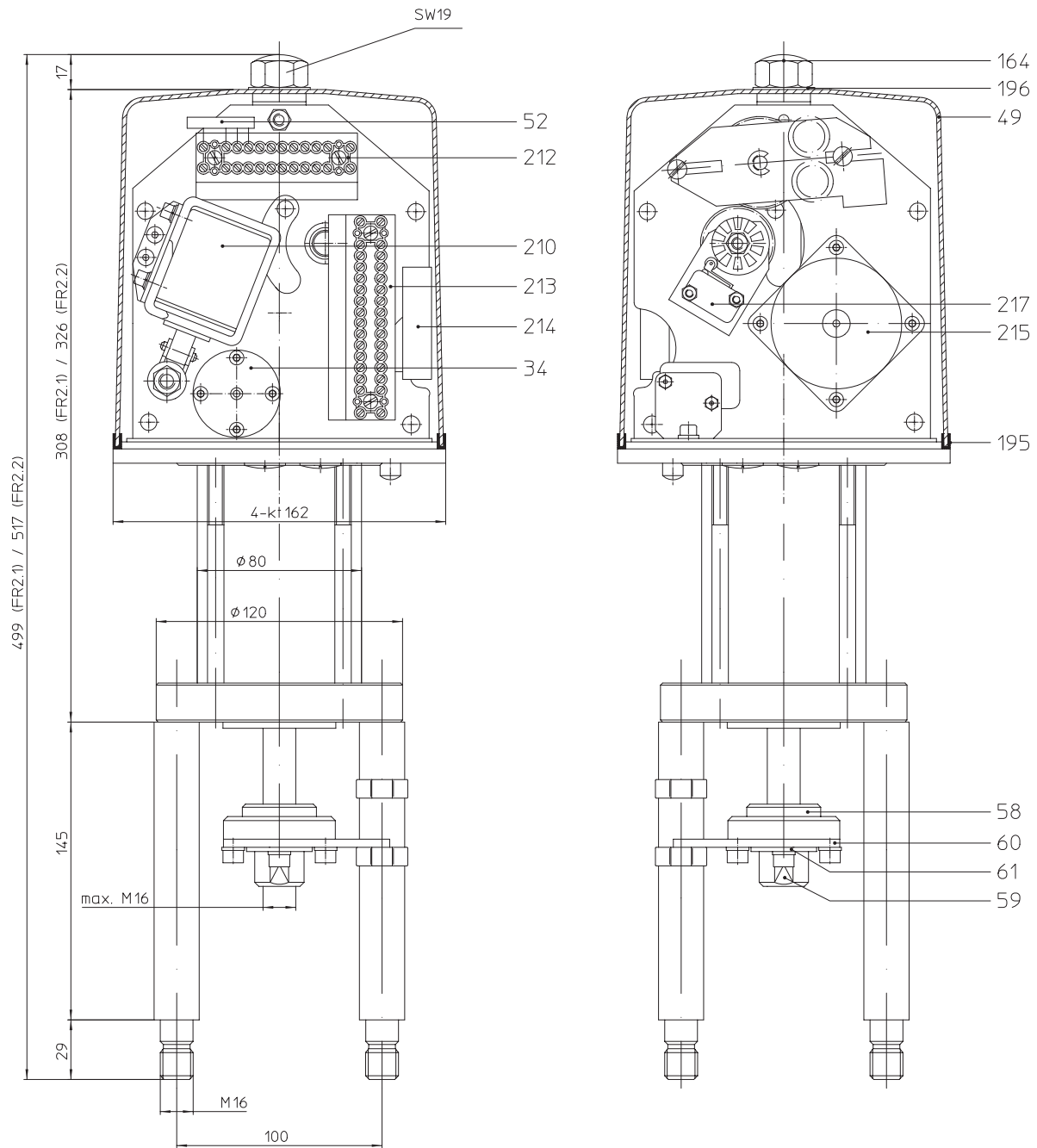
Electric thrust actuator
FR 2.1 / FR 2.2
with safety reset
on electrical power failure



Features

- Safety reset on electrical power failure
- TÜV-approval / DIN EN 14597
- 2 travel switches
- Operative ambient temperatures 0°C up to +50°C
- Enclosure IP 54
- Additional devices available, e.g. potentiometer
- Travel indicator

Electric thrust actuator FR 2.1 / FR 2.2



Pos.	Description
34	Centrifugal brake cpl.
49	Hood
52	Rectifier plate
58	Coupling flange
59	Threaded bush
60	Anti-twist plate
61	Locking plate
164	Cap nut

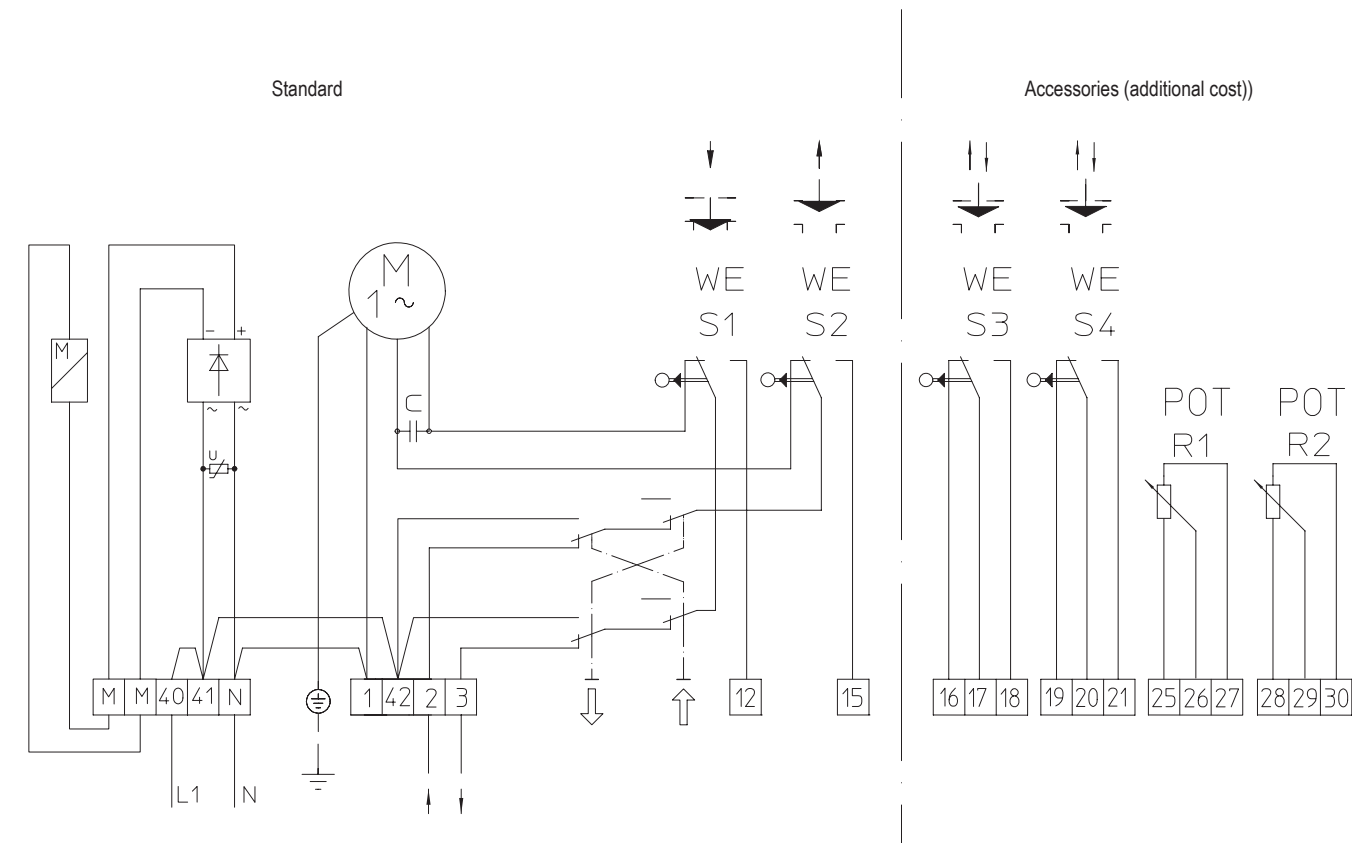
Pos.	Description
195	Hood sealing
196	Gasket
210	Direct current - lifting, magnetic clutch
212	Terminal 12-pole
213	Terminal 16-pole
214	Capacitor
215	Motor
217	Microswitch

Safety reset on electrical power failure				
Type		FR 2.1		FR 2.2
Closing force		kN	0,9 kN (at travel 35 mm)	2,2 kN (at travel 35 mm)
Travel		mm	max. 35 mm	
Control speed		mm/sec	0,29 mm/sec	
On power cut-out:	Closure time	s	8,5 s (at travel 35 mm)	
	Closure force	kN	0,9 kN (at travel 35 mm)	2,2 kN (at travel 35 mm)
	Direction of closure		Extended stem on electrical power failure (on request - retracted stem on electrical power failure)	
Top mounted handwheel		Electrical (botton operated)		
Operative ambient temperature		°C	0°C up to +50°C	
Mounting position		any position		
Enclosure (according to DIN 40050)		IP 54		
Mounting A		Mounting pillars		
Mounting B		Flange according to ISO 5211-F05		
Mains	V - Hz	24V 50/60Hz 1~; 230V 50/60Hz 1~; Additional voltages on request		
Electrical connection		to internal terminal via max. 4 cable screw connections Pg 11		
Operating mode (according to VDE)		S1 - 100% Duty cycle, S4 - 30% Duty cycle - 600 c/h		
Weight	kg	8,7 kg		
Clearance required for removal of hood		mm	100 mm	
Travel limitation		2 travel switches, 10 A, max. 250V WS		

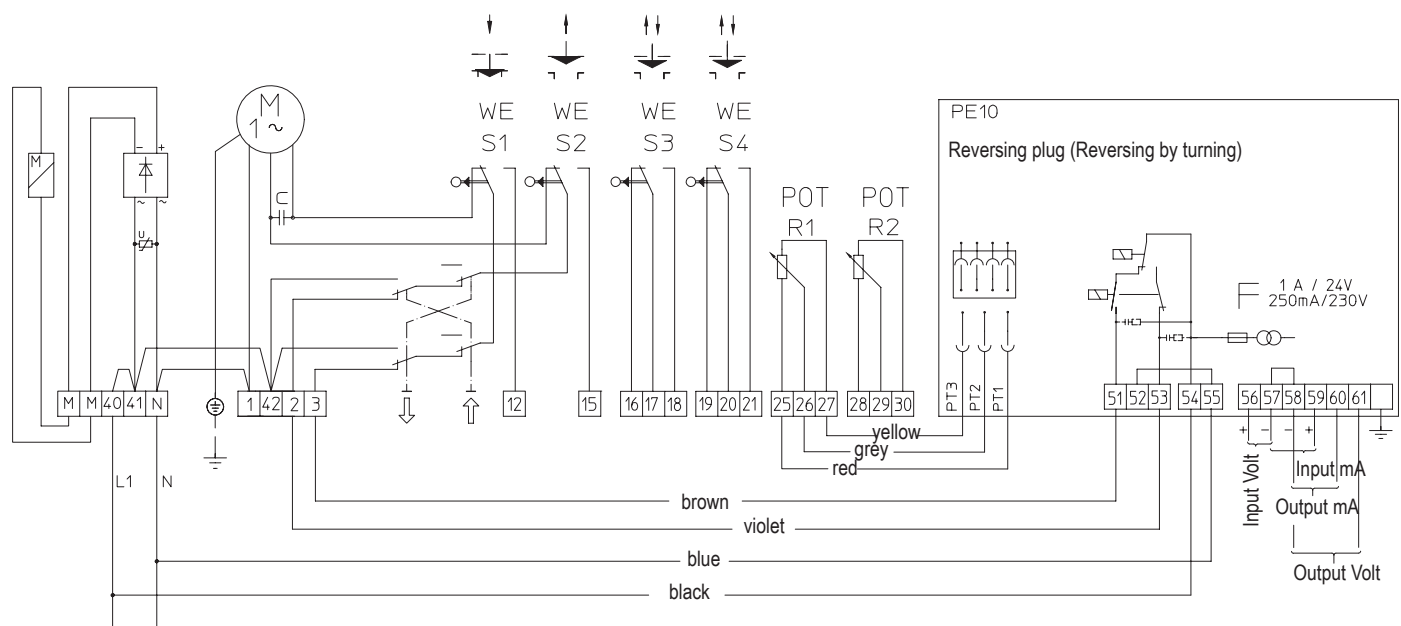
Motor data					
Control speed	mm/sec	0,29 mm/sec			
		1-phase AC			
Voltage	V	24	230	24	230
Rated current	mA	260	31	316	33
Power consumption	W	6,8		7,6	
Power output	W	2,55		3,8	
Motor speed	Rotat./min.	375		375	

Magnetic clutch data					
Voltage	V	24	230	24	230
Magnet voltage	V DC	21,3	204	21,3	204
Power consumption	W	15		15	
Switch-on time (Duty cycle)		100%		100%	

Additional accessories	(max. 2) additional switches, max. 250V WS for ohmic load, max. 10A for inductive load, max. 5A for filament lamps, max. 1A				
	max. 2 potentiometers with 100 Ohm, 200 Ohm, 500 Ohm, 1 kOhm, 2 kOhm, 5 kOhm, 10 kOhm - other values on request - max. 1,5 W, max. wiper current 30 mA				
	1 positioning electronics PE10 (electronic position controller) for analogue input signals 0 (2) - 10 V or 0 (4) - 20 mA; Feedback in same direction				



Wiring diagram FR 2.1 and FR 2.2



Wiring diagram FR 2.1 and FR 2.2 with electronic position controller (PE10)