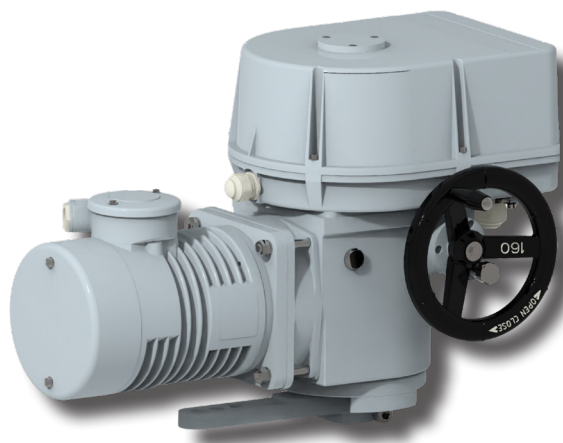


STANDARD

MPR

STANDARD EQUIPMENT

- Voltage 230 V AC
- Electrical connection to terminal board
- 2 torque switches S1, S2
- 2 limit position switches S3, S4
- 1~ electric motor with brake
- Manual operation with permanent readiness
- Heating resistor without thermal switch



Specification table MPR

Order code

220. X - X X X X X / X X

Climate resistance	Ambient temperature	Corrosivity category ¹⁰⁾	Enclosure	
Standard	-25°C ... +55°C	C3	IP 67	1
Tropical dry and Dry	-25°C ... +55°C	C3	IP 67	6

Electric connection	Voltage	Wiring diagram	
To terminal board	230 V AC	Z296a	9
To connector		ZK296a	8

Switching-off torque ³¹⁾	Rated operating time	Operating time	Elektromotor			
			Power	Speed	Current	
63 ÷ 125 Nm	32 s/90°	32 ÷ 34 s/90°	16 W	1 150 min ⁻¹	0.31 A	B
40 ÷ 100 Nm	16 s/90°	16 ÷ 18 s/90°				C
25 ÷ 63 Nm	8 s/90°	8 ÷ 10 s/90°				D

Control board version	Operating angle	Wiring diagram	
Electromechanical - without local control	60°	Z298/ZK298	A
	90°		B
	120°		C
	160°		D

Next page

Order code

220. X - X X X X X / X X

Transmitter		Connection	Output	Wiring diagram	
Without transmitter		-	-	-	A
Potentiometer	Single	-	1 x 100 Ω	Z5c/ZK5c	B
			1 x 2 000 Ω		F
	Double	-	2 x 100 Ω	Z6c/ZK6c	K
			2 x 2 000 Ω		P
Electronic position transmitter	Passive	2-wire	4 - 20 mA	Z10g/ZK10g	S
			0 - 20 mA	Z257b/ZK257b	T
		3-wire	4 - 20 mA		V
			0 - 5 mA		Y
	Active	2-wire	4 - 20 mA	Z269r/ZK269r	Q
			0 - 20 mA	Z260h/ZK260h	U
		3-wire	4 - 20 mA		W
			0 - 5 mA		Z
Electronic position transmitter	Passive	3-wire	0 - 10 V	Z257m/ZK257m	D
	Active		0 - 10 V	Z260k/ZK260k	R
Current CPT ⁵²⁾	Passive	2-wire	4 - 20 mA	Z10g/ZK10g	I
		3-wire	0 - 5 mA	Z257n/ZK257n	5
	Active	2-wire	4 - 20 mA	Z269r/ZK269r	J
		3-wire	0 - 5 mA	Z260m/ZK260m	6
Current DCPT 3M ⁵²⁾	Passive	2-wire	4 - 20 mA	Z10g/ZK10g	2
	Active		4 - 20 mA	Z269r/ZK269r	3

Mechanical connection		Rozmerový náčrt	
Lever + stops ends	Without additional coupling parts	P-1050b	A
	Pull-rod TV 360 (P-0210)		B
	Bolts (P-1090a)		C
	Pull-rod TV 360 + bolts (P-1090a; P-0210)		D

Additional equipment		Wiring diagram		
	Without additional equipment; adjusted max. switching-off torque		0	1
A	2 additional position switches S5, S6	Z298/ZK298	0	2
B	Switching-off torque adjustment for required value		0	3

Allowed combination and code of version: A+B=07

Notes:

10) Climate resistance according to ISO 9223 / EN ISO 12944-2.

32) State the switch-off torque in your order. If not stated it is adjusted to the maximum value of the chosen range.

33) The maximum load torque equals the max. switching-off torque multiplied by:

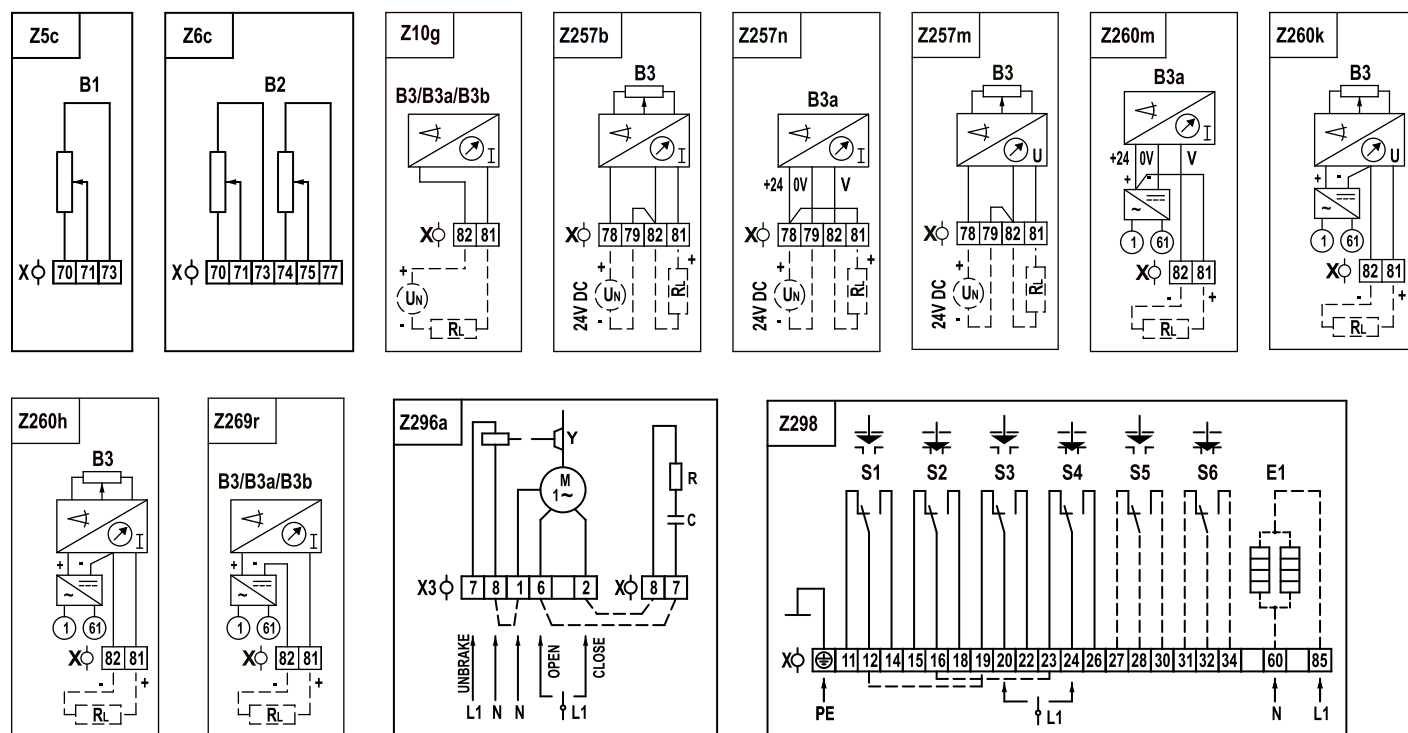
- 0.8 for duty cycle S2-10 min, or S4-25%, 6 - 90 cycles per hour.

- 0.6 for duty cycle S4-25%, 90 - 1200 cycles per hour.

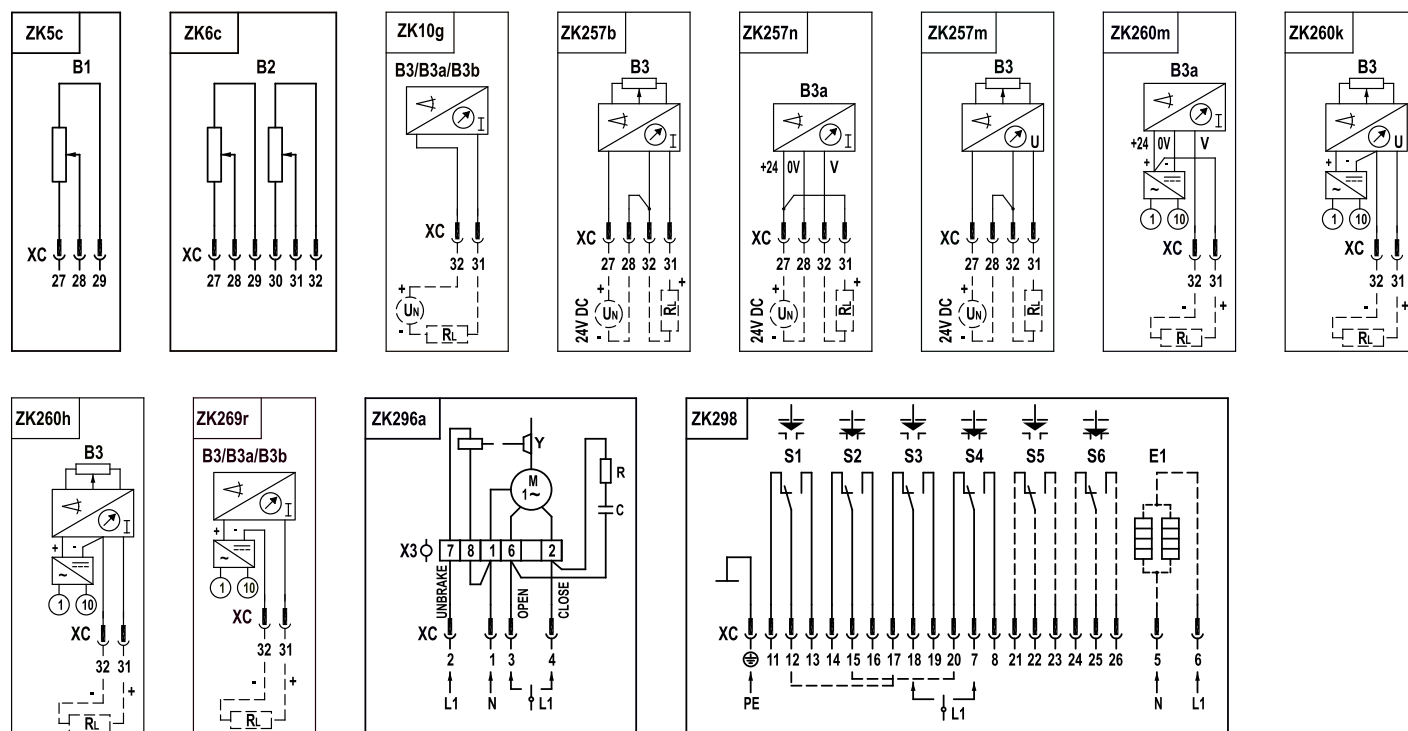
52) CPT - capacitive transmitter, DCPT 3M - electronic contactless transmitter.

Wiring diagrams

Terminal board connection



Connector connection



Electric connection:

to terminal board with 32 clamps, wire cross section max. 2.5 mm² via 2 cable glands and 1 cable connector na motor M25x1.5 for cable diameter 12.5 to 19 mm.

Notes:

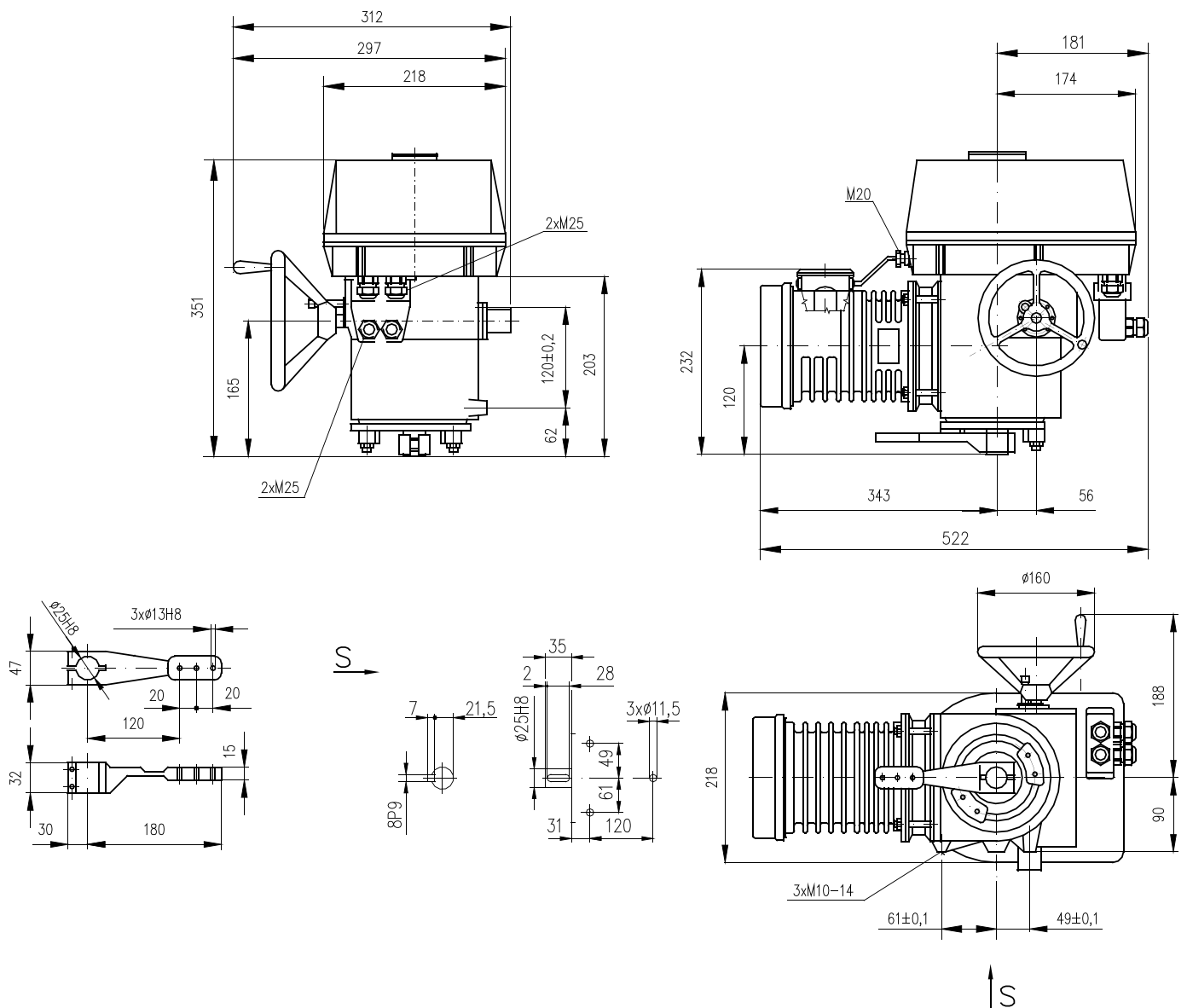
- 1. Wiring connection is limited by max. number of 32 terminals.
- 2. For the EA version with connection to the terminal board, the actuator is not equipped with the jumper X3:6-X:7 and X3:2-X:8 (Z296) in manufacturing plant (it is necessary to connect it by customer).
- 3. When starting the electric motor, it is necessary to release its brake by applying the 230 V AC supply voltage to terminals 7 and 8 on terminal block X3.

Legend:

- Z5c/ZK5c.....connection of single potentiometer
- Z6c/ZK6c.....connection of double potentiometer
- Z10g/ZK10g.....connection of electronic position transmitter; 2-wire passive
- Z257b/ZK257b.....connection of electronic position transmitter; 3-wire passive
- Z257m/ZK257m.....connection of electronic position transmitter; 3-wire passive
- Z257n/ZK257n.....connection of electronic position transmitter CPT; 3-wire active
- Z260h/ZK260h.....electronic current position transmitter, 3-wire, active
- Z260k/ZK260k.....0–10 V electronic position transmitter, 3-wire, active
- Z260m/ZK260m.....CPT position transmitter, 3-wire, active
- Z269r/ZK269r.....CPT, DCPT 3M, or electronic position transmitter, 2-wire, active
- Z296a/ZK296a.....connection of 1-phase electric motor
- Z298/ZK298.....connection of thrust and position switches and space heater

Legend:

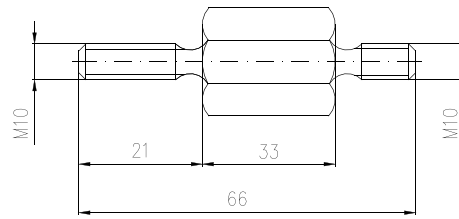
- B1.....single potentiometer
- B2.....double potentiometer
- B3.....CPT or electronic position transmitter
- B3a.....capacitive current transmitter (CPT)
- B3b.....DCPT current transmitter
- S1.....torque switch „open”
- S2.....torque switch „closed”
- S3.....position switch „open”
- S4.....position switch „closed”
- S5.....additional position switch „open”
- S6.....additional position switch „closed”
- M.....electric motor
- C.....capacitor
- Y.....motor's brake
- E1.....space heater
- X.....terminal board
- X3.....electric motor' s terminal board
- I / U.....output signals current / voltage
- R.....reducing resistor
- R_L.....loading resistor



P-1050b

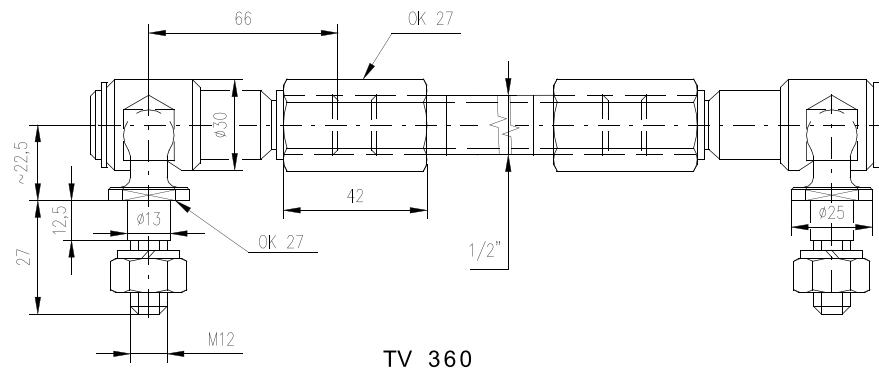
Dimensional drawing MPR

Bolt



P-1090a

Pull-rod



P-0210

Attachment example of actuator by bolts

