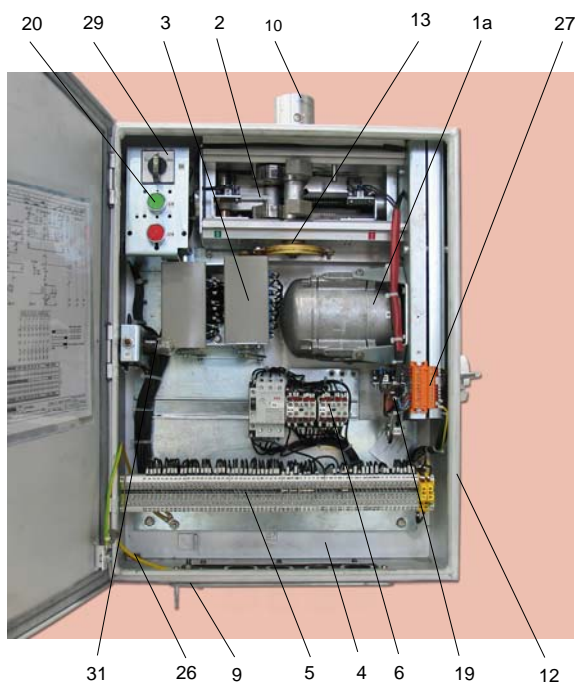


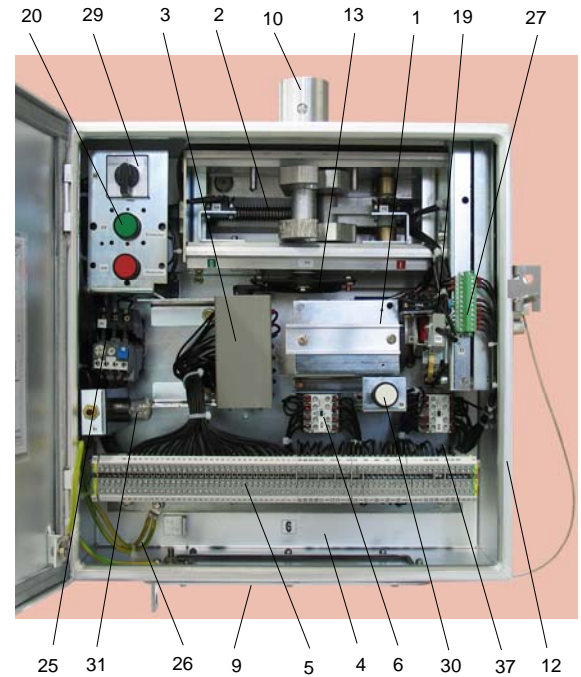
## Motor-operated Mechanisms Types MT50; MT100 and MT50-3f; MT100-3f

The motor-operated mechanisms type MT50; MT100 and MT50-3f; MT100-3f are designed for outdoor installation and used for the electrical remote operation of disconnectors and earthing switches.

The mechanisms are designed according to the publication IEC 62271-102; IEC 62271-1 and most other national regulations.

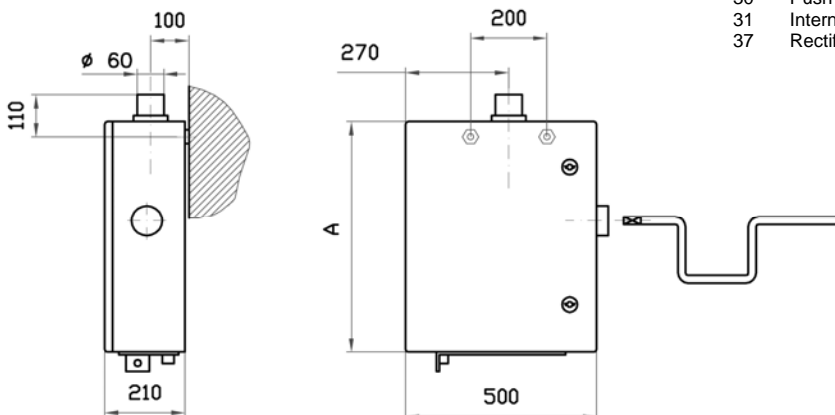


**Operating mechanism type MT50-3f / MT100-3f**



**Operating mechanism type MT50 / MT100**

- 1 DC motor (MT...)
- 1a 3-phase AC motor (MT...-3f)
- 2 Operating spindle
- 3 Pilot switch
- 4 Mounting plate
- 5 Terminal strip
- 6 Control contactor
- 9 Supply lead plate (with blanking plugs and earthing connection angle)
- 10 Operating shaft
- 12 Housing
- 13 Control disc
- 19 Blocking magnet
- 20 Push button
- 25 Overload protection (optionally)
- 26 Flexible earthing connection
- 27 Adapter plug
- 29 Changeover switch
- 30 Push button for blocking magnet
- 31 Internal lamp (optionally)
- 37 Rectifier (when AC motor voltage is supplied)



dimensions:	A
MT50; MT100	500
MT50-3f; MT100 -3f	650

## Technical data of motor operated mechanisms types MT50; MT100; MT50-3f; MT100-3f

Type	MT50 MT100	MT50-3f MT100-3f
Rated motor voltage	60,110,125 or 220 VDC 110 or 230 VAC, 50/60 Hz	3 x 230 / 400 VAC
Admissible deviation from the rated motor voltage	+10 / -20 %	+10 / -10 %
Rated power, short-time duty input output	660 W 470 W	750 W 560 W
Switching time (depending on load): MT 50 MT 100	5,5 - 8,5 sec. 10 - 12 sec.	8 - 10 sec. 15 - 17 sec.
Max. torque required at the operating shaft for emergency operation: MT 50 MT 100	5 Nm 7.5 Nm	3 Nm 4 Nm
Rated torque on the operating shaft at rated voltage: MT 50... MT 100...	500 Nm 1000 Nm	750 Nm 1000 Nm
Rotations of emergence crank for a 190° switching angle of the operating shaft: MT 50... MT 100...	min. 100 min. 140	min. 80 min. 110
Heating capacity	approx. 25 W	approx. 25 W
Heating voltage	125, 230 V	125, 230 V
Degree of protection against contact with live or moving parts ingress of foreign bodies and water :	IP 65	IP 65
Cross-section of internal wiring (except motor and heater)	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>
Maximal cross-section of supply leads : solid stranded (with end sleeve)	4 mm <sup>2</sup> 2,5 mm <sup>2</sup>	4 mm <sup>2</sup> 2,5 mm <sup>2</sup>
Weight	max 40 kg	max 48 kg
Dimensions (cubicle) L x W x H	500 x 210 x 500 mm	650 x 210 x 500 mm
<b>Technical data of the built-in control contactors</b>		
Operating voltage	60, 110, 125, or 220 VDC 110 or 230 VAC	60, 110, 125, or 220 VDC 110 or 230 VAC
Admissible deviation from the operating voltage	+ 10 / - 15%	+ 10 / - 15%
Rated power consumption of the magnet coils when operated with DC pick-up / holding when operated with AC pick-up / holding	7 W / 7 W 60 VA / 9 VA (50 W / 2,2 W)	7 W / 7 W 60 VA / 9 VA (50 W / 2,2 W)
Min. Signal duration for self-holding	75 ms	75 ms
<b>Technical data of the blocking magnet</b>		
Operating voltage	60, 110, 125, or 220 VDC 110 or 230 VAC	
Admissible deviation from the operating voltage	+ 10 / - 15%	
Rated power consumption of the magnet coil when operated with DC	approx. 6 W	