

# Motor Drive TAPMOTION® ED

TAPMOTION® ED 100 / 200





All figures show TAPMOTION® ED 100 ST with TAPGUARD® 260 (special equipment).

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TAPMOTION®



### The TAPMOTION® ED. In the end only quality counts

If you are looking for ruggedness, uncompromising quality and reliability in a motor drive unit, the TAPMOTION® ED is your choice. It offers you decades of practical experience and the know-how of the market leader for on-load tap-changers. Two models are available. All TAPMOTION® EDs have one uniform construction that fits all tap-changers. Naturally the device also meets the requirements of IEC 60214-1. The uniform mounting and drive geometry significantly reduces construction costs for transformer mounting. The TAPMOTION® ED is also particularly easy to install. A swing frame ensures clear arrangement of all components and makes connection easy.

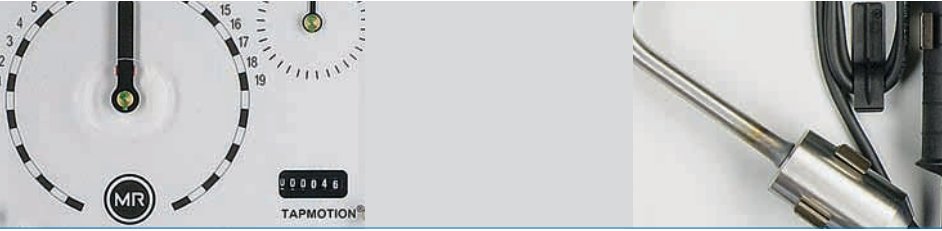
### The TAPMOTION® ED is tough

The housing (container and door) is made of corrosion-resistant, cast aluminium – perfect for actual practice. A wide variety of special measures allows the TAPMOTION® ED to handle even the most extreme operating conditions. Splashed water and dust cannot penetrate.

### Safety first

All operator control elements are installed behind the protective housing door in a closed swing frame front. All electrical and mechanical components of the motor drive are protected against accidental touch (BGV A3).





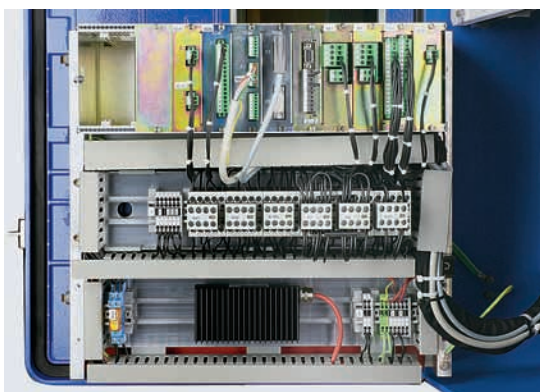
## An expert's dream

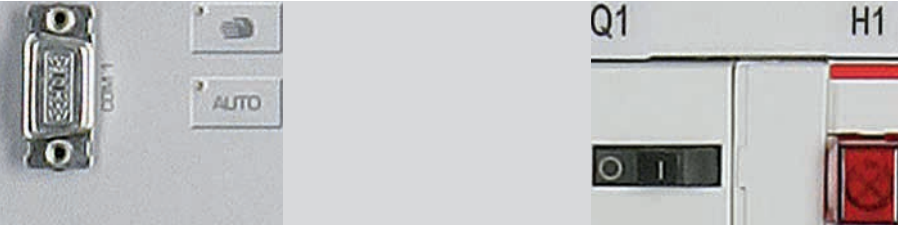
The TAPMOTION® ED displays all its strengths during rough everyday operation.

- Clear and easy-to-read indicator field which gives you all information on regulating range, position of the motor drive unit and tap-changer, tap change and number of changes even when the motor drive unit is closed
- Modern cage-clamp terminal technology
- Easy-to-access position signaling unit (position signaling module, position signaling PCB) allows upgrading and later adaption to future indicator technologies
- Functional separation of position signaling PCB and position signaling module
- Low-noise transmission gear with maintenance-free belt gear as transmission element
- Uniform mounting and drive geometry for all TAPMOTION® ED models
- Panel heater as full-performance anti-condensation heater; thermostats or hygrostats are no longer needed

## Intelligence inside

Are you looking for an on-site solution with integrated electronics for direct regulation and monitoring of on-load tap-changers and transformers? We have the answer. Whether you decide on our TAPCON® 240 voltage regulator or our TAPGUARD® 260 monitoring system – all devices can be easily installed on your TAPMOTION® ED. The serial interface lets the components communicate directly with your control system. And don't forget – you won't have to buy an extra switching cabinet.





## ED-Description of different models

Type designation	Description	Variants
TAPMOTION® ED 100-ST	Product designation	Electric drive
TAPMOTION® ED 100-ST	Transmission gear	100 = small transmission gear (motor 6,5 Nm) 200 = large transmission gear (motor 13/18 Nm)
TAPMOTION® ED 100-ST	Protective housing model	S = small protective housing L = large protective housing
TAPMOTION® ED 100-ST	Special applications	C = plunger-core earth-fault neutralizer T = TAPCON® / TAPGUARD®

## Technical data (standard model)

Motor drive	TAPMOTION® ED 100	TAPMOTION® ED 200
Supply voltage	3 AC/N 230/400 V	
Current	1.9 A	5.2 A
Frequency	50 Hz	
Synchronous speed	1500 1/min	
Rotation of the drive shaft per tap change	16.5	
Runtime per tap change	approx. 5.4 sec	
Rotation of the hand crank per tap change	33	
Max. number of operating positions	35	
Voltage of control and header circuit	AC 230 V	
Power consumption of the control circuit (activation/operation)	100 VA/25 VA	
Heater power	50 W for TAPMOTION® ED 100/200 S 60 W for TAPMOTION® ED 100/200 L	
Test voltage against ground	2 kV / 60s	
Weight	TAPMOTION® ED 100/200 S: approx. 80 kg TAPMOTION® ED 100/200 L: approx. 130 kg	
OILTAP® V, MS, VACUTAP®, W, VR, VT	X*	
OILTAP® M, RM, R, DEETAP® DU	X*	
OILTAP® M, 3xRM, 3xR, G, 3xG		X*

\* Please contact MR

The TAPMOTION® ED motor drive is also used in retrofit applications with on-load tap-changers made by other manufactures (e.g. Siemens, AEG, TRO).

Please contact MR for these applications.

