eMOTION



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THE WAY TO GREEN[™]





eMOTION

BENEFITS

- Precise floor levelling eliminating tripping hazards
- Ride quality and comfort • Compliance with latest codes
- and standards.
- State of the art technology
- Load weighing
- Optional door protection
- Overload circuit breaker which controls the power supply and in case of any spike switches the lift off from normal operation to avoid potential lift damage
- Reduced line current
- Electric breaking in combination with variable frequency drive

LOAD	320 kg	450 kg	630 kg 8	800 kg 10	1000 kg 13	1275 kg 16	1600 kg 21	2000 kg 26	2500 kg 33
0.50 m/s									
1.00 m/s									
1.10 m/s									
1.60 m/s									
1.75 m/s									
2.00 m/s									
2.50 m/s									
3.00 m/s									
3.50 m/s									
4.00 m/s									
Speed	eMOTION product range								

TECHNICAL PARAMETERS



eMOD Traction

Our pre-engineered controller and electrical package designed for traction elevators represents our state of the art way to increase safety standards and the life time of your existing lifts with minimal builder's works and tenant disruption. The drive system estimates the load in the lift car by measuring the current the motor requires the controller is then able to make fine adjustments to the voltage and frequency ensuring a smooth ride. The levelling accuracy which is typically ± 3 mm is achieved via a new positioning and reference system (PRS)

Performance and comfort

The heart of the product is our variable frequency drive which improves ride comfort regardless of load, is guieter in operation, reduces noise emissions into the building and is easy to modify to suit the user's needs. By replacing the existing relay controller with a microprocessor controller the reliability of the lift can be increased as well as levelling and stopping accuracy which does not depend on the load of the lift.

One other advantage is that the existing car operating panel and landing fixtures can also be retained in most circumstances. Incorporated system diagnostics analyse possible issues with the lifts which assists our engineers in carrying out repairs in a timely manner minimising disruption for the tenants. The system is provided with a new position and reference systems PRS that replaces the existing limit switches on each floor.

The PRS system determines the accurate position of the lift during the whole lift travel monitoring the speed and if anything unpredictable occurs then the lift will automatically slow down and stop.

Safety First

This upgrade package improves ride quality and the stopping accuracy via a variable frequency drive which is set up to ensure the lift operates to its optimum. The product comes with safety features such as limit switches, stop switches, an overload circuit breaker and new positioning reference system but there are also additional features available as options to further improve safety such as electronic door protection and an overload device.

These features allow potential risks to be identified and dealt with.

Parameter	Minimum	Maximum	Remark	
Type of the lift	trac	_		
Roping	1:1	2:1	-	
Speed	\leq 0,63 m/s for \leq 1,2 m/s for \leq 1,2 m/s for variable frequency m \leq 1,75 m/s for variable frequency m	-		
Operation controller	SAPB (simple) / DCL (down-	-		
Units in group	1	5	-	
No.of stops	≤ 16	≤ 24 on contract basis		
Rise	≤ 50 m for 1/2 ≤ 25 m for variable frequency motion with ≤ 45 m for variable frequency motion with ≤ 50 m for variable frequency motion	\leq 75 m on contract basis		
Power (max.)	5 kW	22 kW	Depends on lift characteristic	
Starts per hour	- 180		_	
Flight time (3m run)	-	5,5 sec	-	
Floor leveling	± 5 mm (w ± 3 mm (w	-		
Power supply	380 V / 400 V / 41	-		
Number of car entrances	1	2	Depends on lift characteristic	
Door arrangement	automatic – automatic automatic – automa automatic – manual (i automatic – manual (i	Depends on lift characteristic		
Earthing	TNS (fi ve wire net)	/ TNC (four wire net)	Depends on lift characteristic	
Speed encoder	No	Yes	_	



- machine room position device (optional)
- main service disconnecting switch (optional)

HOISTWAY

- hoistway harness and connecting cables with
- its trunking limit switches
- digital speed encoder (optional)
- intercommunication unit (optional)
 - - - - load weighting device (optional)
 - intercommunication unit (optional)
 - voice synthesizer (optional)
 - car wiring



- junction box with emergency power unit (12V) • top of car inspection box
- limit switches + cams (optional)

• car operating panels - (separate package, see next OTIS compatible products)

HALL

• hall fixtures (separate package, see next OTIS compatible products)

PIT

- pit emergency switch
- pit power socket PHS (optional)
- tension device switch