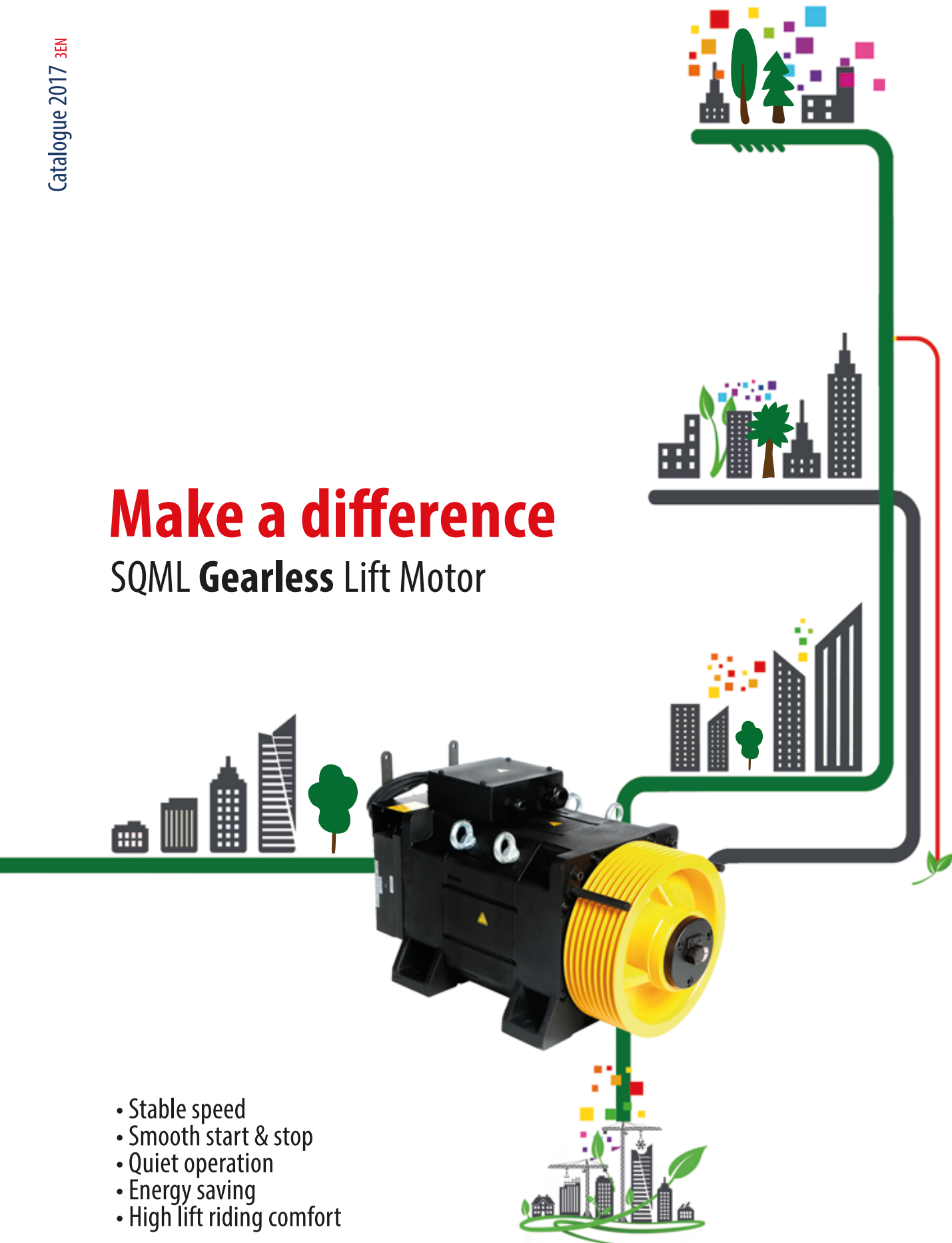


Make a difference

SQML **Gearless** Lift Motor

- Stable speed
- Smooth start & stop
- Quiet operation
- Energy saving
- High lift riding comfort

EMF Motor®



EMF Motor

Only the Best wins ...

Every solution comes from a real understanding of the challenges facing designers and users.

EMF Motor continues to be a company made of innovative individuals striving to design, create and build products and solutions that help to improve industrial technology. We design our products for durability and we test them rigorously to ensure the highest levels of reliability.

Our products are the **“next big thing”** in electric motors. Our patented technology provides the ground to attract world’s most talented and motivated engineers. EMF Motor products will benefit design engineers to innovate compact products that will respond to the increasing demand from customers.

“Precise motion” is our focus. SQM Torquemotor can distinctly differentiate your product, your efficiency and your operations and deliver a market place advantage by improving its performance. This means totally increased efficiency which is the expectation within every company. Perfectly deployed motion can make your product more reliable and efficient and enhance accuracy.

How is this all possible? What is so different about the SQM Torquemotor?

SQM Torquemotor works with a patented motor principle that is most suitable for applications with high torque at low speed. SQM Torquemotor is a synchronous machine and the windings have no influence on the pole number. The high pole number is achieved by intelligent magnetic field.

As a result SQM Torquemotor, as a direct drive, offers great advantages in all performance criterias, such as very high energy efficiency, high dynamics, high overload capacity, quiet and practically maintenance free operation.

SQML Gearless Lift Motor

- SQML Gearless Lift Motor uses the patented EMF Motor® principle.
- SQML Gearless Lift Motor has the highest efficiency by far.
- With its high number of poles the motor is very dynamic and has excellent controllability.
- A3 compatible safe brake is incorporated.
- The EMF Motor® principle is characterised by very compact design.
- As a result of the low moment of inertia, the starting current is minimal.
- There is a constant torque over the whole speed range.
- Very low torque ripple enables excellent lift "ride comfort".
- Due to its high efficiency the motor always stays cool, making it especially suited to locations with high ambient temperature.

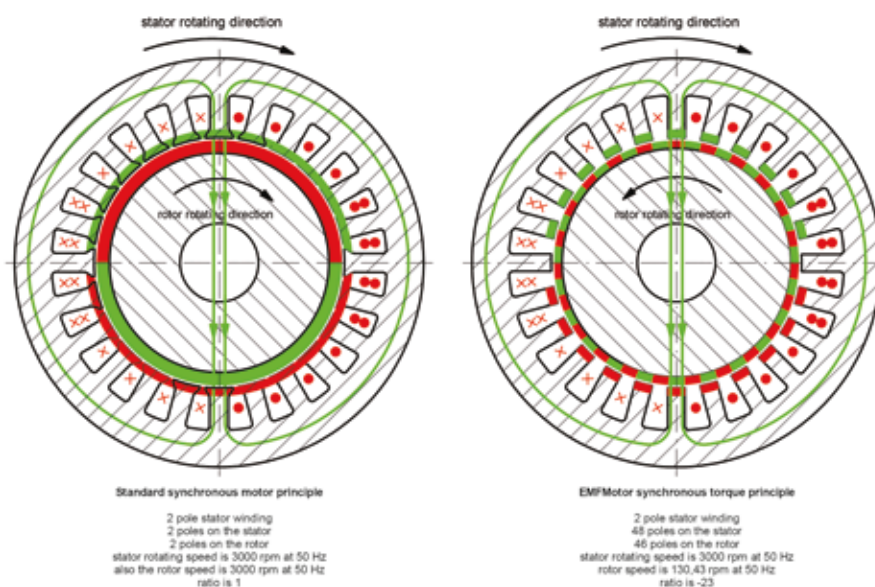
The motor designed with German and Turkish Cooperation, has excellent torque / speed curves

- has by far the highest efficiency
- allows you to feel the lift "ride comfort"
- works quietly so does not disturb



The patented EMF Motor® Principle (Patent No: EP 0910154)

- The stator of the EMF Motor is very similar to a conventional motor.
- Permanent magnets are glued to the rotor.
- When the motor stator winding is supplied with zero voltage and frequency, magnetic flux is formed.
- When the frequency is increased, the magnetic field starts to rotate.



- The two magnetic systems, permanent magnet rotor and magnetization created by the rotating stator field, start to pull and push each other over the whole circumference.
- The direction of rotation of the magnetic rotor is opposite to the rotating stator field and the rotor turns much more slowly than the rotating field.
 The permanent magnets and motor geometry define the speed reduction ratio.
- With this new motor principle a very high torque is created by a winding with a low number of poles.
- The copper losses and hysteresis losses are very low which allows extremely high efficiency values.
- Due to the high number of magnetic poles, rotation is very slow and a high torque achieved.
- In most cases, no additional blower or water cooling is required for these motors.
- The results show there is no other motor principle or design that even gets close to the level of efficiency achieved by EMF Motor or the level of torque to weight ratio of EMF Motor design.

SQML 100

- From 320 kg up to 630 kg carrying capacity
- 160 mm, 210 mm and 240 mm traction sheave options
- Compact design
- 1:1 and 2:1 suspension options



Suspension	Motor Nr.	Motor Code	Load Capacity kg	Traveling Speed m/s	Traction Sheave mm	Rope Number x Ø mm	Rated Torque Nm	Rated Speed min ⁻¹	Rated Current A	Rated Power kW	Static Load kg
1:1	a	100-160	320	1,0	Ø 240	7 x 6,5	280	80	11	2,3	1700
	b	100-160	320	1,6	Ø 240	7 x 6,5	280	127	17,2	3,7	1700
	c	100-160	320	1,0	Ø 210	8 x 6,5	245	91	9,8	2,3	1700
	d	100-160	320	1,6	Ø 210	8 x 6,5	250	146	16,1	3,7	1700
2:1	e	100-140	320	1,0	Ø 210	4 x 6,5	120	182	6,4	2,3	1700
	f	100-140	400	1,0	Ø 210	6 x 6,5	150	182	10,5	2,8	1700
	g	100-140	400	1,0	Ø 240	5 x 6,5	170	159	11,7	2,8	1700
	h	100-140	480	1,0	Ø 210	6 x 6,5	180	182	12,7	3,4	1700
	i	100-140	480	1,0	Ø 240	5 x 6,5	192	159	13,5	3,2	1700
	j	100-160	630	1,0	Ø 210	7 x 6,5	225	182	16,9	4,2	1700
	k	100-160	630	1,0	Ø 240	6 x 6,5	250	159	17	4,2	1700

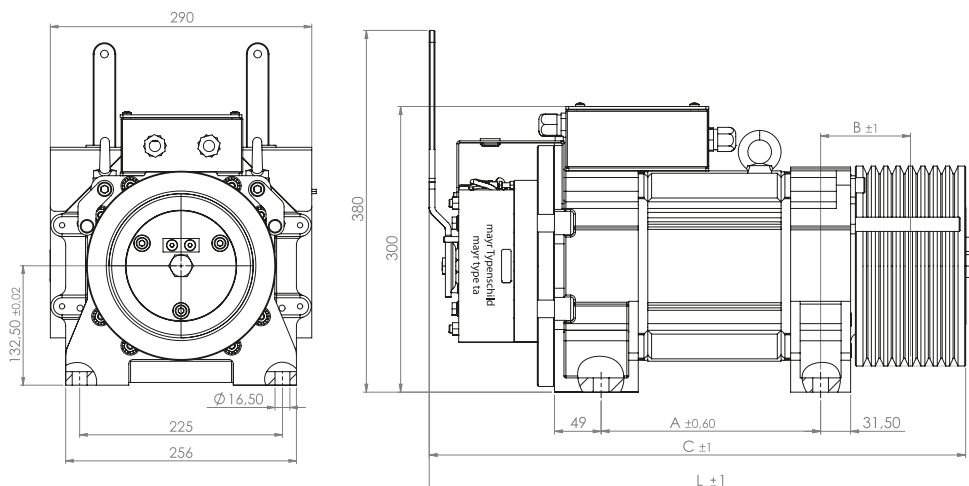
Caution

- Certificated rope must be used with 210 mm and lesser traction sheaves.
- All calculations have been made due to Drako 250T rope type.
- Feedback device is a Heidenhain ECN1313 EnDat encoder and the brakes are Mayr branded.
- Shaft efficiency is considered as 80% in all calculations.
- Maximum Static loads are given for 1:1 suspension. They need to be multiply by 2 for 2:1 suspension.
- Compensation rope must be used over 24m travel distance.
- Travel distance is considered 35-45m for 2m/s and higher cabin speeds.
- Please contact us for other load capacities.
- Sheave angles for 210 mm and 240 mm are 50°, for 320 mm and 400 mm they are 45°.
- The hardness rate of our sheaves is 50 HRC.
- Brake supply voltage is 207VDC.

Groove Distance mm

- 210 Sheave 13
- 240 Sheave 13
- 320 Sheave 16
- 400 Sheave 20

EMF Motor reserves the right to amend dimensions, technical data and design specification without prior notification.



Motor Nr.	A mm	B mm	L mm	Weight kg
a	250,5	89	594	134
b	250,5	89	594	134
c	250,5	95	594	126
d	250,5	95	594	126
e	230,5	74	574	118
f	230,5	82	574	120
g	230,5	76	574	126
h	230,5	82	574	120
i	230,5	76	574	126
j	250,5	88	594	125
k	250,5	82	594	132

SQML 100 160 mm traction sheave

- Quieter operation and smooth speed
- Higher comfort

Suspension	Motor Nr.	Motor Code	Load Capacity kg	Traveling Speed m/s	Traction Sheave mm	Rope Number x Ø mm	Rated Torque Nm	Rated Speed min ⁻¹	Rated Current A	Rated Power kW	Static Load kg
2:1	a	100-140	320	1,0	Ø 160	3 x 6,5	95	239	5,9	2,3	1700
	b	100-140	400	1,0	Ø 160	4 x 6,5	115	239	7,7	2,8	1700
	c	100-140	480	1,0	Ø 160	4 x 6,5	135	239	10,5	3,4	1700
	d	100-140	630	1,0	Ø 160	4 x 6,5	175	239	16	4,3	1700
	e	100-160	800	1,0	Ø 160	5 x 6,5	210	239	18	5,3	1700

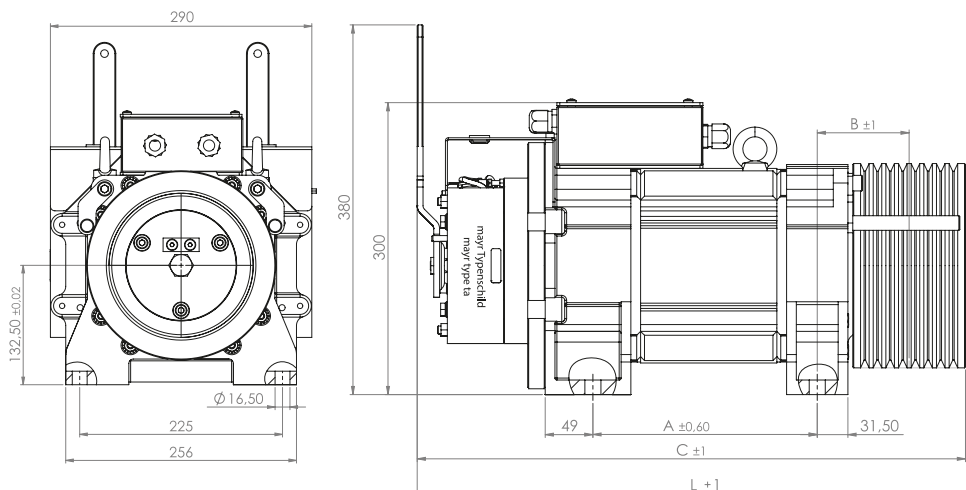
Caution

- Certificated rope must be used with 160 mm and lesser traction sheaves.
- All calculations have been made due to DRAKO PTX 300 5/6,5 ($\mu = 0,25/0,5$) rope type.
- Feedback device is a Heidenhain ECN1313 EnDat encoder and the brakes are Mayr branded.
- Shaft efficiency is considered as 80% in all calculations.
- Maximum Static loads are given for 1:1 suspension. They need to be multiply by 2 for 2:1 suspension.
- Brake supply voltage is 207VDC.
- Compensation rope must be used over 24m travel distance.
- Please contact us for other load capacities.
- Sheave channel type is U and channel angle is 45°
- Pitch distance on the sheave is 13mm.

Groove Distance mm

- 160 Sheave 13

EMF Motor reserves the right to amend dimensions, technical data and design specification without prior notification.



Motor Nr.	A mm	B mm	L mm	Weight kg
a	230,5	89	574	110
b	230,5	89	574	110
c	230,5	89	574	110
d	230,5	94	574	110
e	250,5	100	594	115

SQML 132

- Up to 1000 kg carrying capacity
- 210 mm, 240 mm and 320 mm traction sheave options
- 2 m/s speed options
- 1:1 and 2:1 suspension options



Suspension	Motor Nr.	Motor Code	Load Capacity kg	Traveling Speed m/s	Traction Sheave mm	Rope Number x Ø mm	Rated Torque Nm	Rated Speed min ⁻¹	Rated Current A	Rated Power kW	Static Load kg
1:1	a	132-140	400	1,0	Ø 240	8 x 6,5	345	80	8,7	2,9	2200
	b	132-140	400	1,6	Ø 240	8 x 6,5	345	127	13,5	4,6	2200
	c	132-140	400	1,0	Ø 210	9 x 6,5	305	91	8,1	2,9	2200
	d	132-140	400	1,6	Ø 210	9 x 6,5	305	146	13	4,7	2200
	e	132-140	480	1,0	Ø 240	9 x 6,5	410	80	11,5	3,4	2200
	f	132-140	480	1,6	Ø 240	9 x 6,5	410	127	18	5,5	2200
2:1	g	132-140	630	1,6	Ø 240	6 x 6,5	265	255	17	6,8	2200
	h	132-160	630	1,6	Ø 320	4 x 8	343	191	18	6,8	2200
	i	132-100	800	1,0	Ø 210	8 x 6,5	280	182	17	5,4	2200
	j	132-140	800	1,0	Ø 240	7 x 6,5	325	159	16,7	5,4	2200
	k	132-140	800	1,6	Ø 240	7 x 6,5	322	255	23,1	8,6	2200
	l	132-160	800	1,0	Ø 320	5 x 8	420	119	17,5	5,2	2200
	m	132-160	800	1,6	Ø 320	5 x 8	420	191	24	8,4	2200
	n	132-180	800	2,0	Ø 320	6 x 8	420	239	32	10,5	2200
	o	132-160	1000	1,0	Ø 240	9 x 6,5	398	159	18,2	6,6	2200
	p	132-160	1000	1,6	Ø 240	9 x 6,5	398	255	31,1	10,6	2200

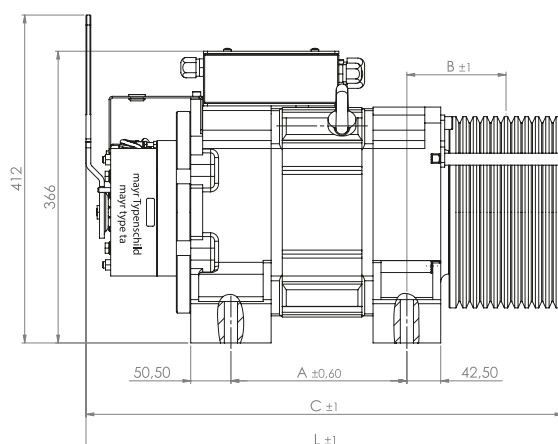
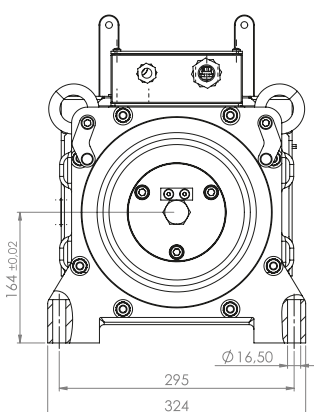
Caution

- Certificated rope must be used with 210 mm and lesser traction sheaves.
- All calculations have been made due to Drako 250T rope type.
- Feedback device is a Heidenhain ECN1313 EnDat encoder and the brakes are Mayr branded.
- Shaft efficiency is considered as 80% in all calculations.
- Maximum Static loads are given for 1:1 suspension. They need to be multiply by 2 for 2:1 suspension.
- Compensation rope must be used over 24m travel distance.
- Travel distance is considered 35-45m for 2m/s and higher cabin speeds.
- Please contact us for other load capacities.
- Sheave angles for 210 mm and 240 mm are 50°, for 320 mm and 400 mm they are 45°.
- The hardness rate of our sheaves is 50 HRC.
- Brake supply voltage is 207VDC.

Groove Distance mm

- 210 Sheave 13
- 240 Sheave 13
- 320 Sheave 16
- 400 Sheave 20

EMF Motor reserves the right to amend dimensions, technical data and design specification without prior notification.



Motor Nr.	A mm	B mm	L mm	Weight kg
a	261	117	672	201
b	261	117	672	201
c	261	118	672	193
d	261	118	672	193
e	261	119	672	202
f	261	119	672	202
g	261	105	642	198
h	281	86	692	207
i	221	115	602	175
j	261	105	672	198
k	261	105	672	198
l	281	86	692	215
m	281	86	692	215
n	301	102	712	230
o	281	119	692	210
p	281	119	692	210

SQML 160

- Up to 1250 kg carrying capacity
- 240 mm and 320 mm traction sheave options
- 1:1 and 2:1 suspension options



Suspension	Motor Nr.	Motor Code	Load Capacity kg	Traveling Speed m/s	Traction Sheave mm	Rope Number x Ø mm	Rated Torque Nm	Rated Speed min ⁻¹	Rated Current A	Rated Power kW	Static Load kg
1:1	a	160-200	630	1,0	Ø 240	12 x 6,5	520	80	13,5	4,3	2800
	b	160-200	630	1,6	Ø 240	12 x 6,5	520	127	23,3	7,1	2800
2:1	c	160-200	800	2,5	Ø 400	4 x 10	490	239	40	12,3	2800
	d	160-160	1000	1,0	Ø 320	6 x 8	533	119	24,5	6,6	2800
	e	160-200	1000	1,6	Ø 320	6 x 8	533	191	35	10,7	2800
	f	160-200	1250	1,0	Ø 240	12 x 6,5	500	159	26	8,3	2800
	g	160-200	1250	1,6	Ø 240	12 x 6,5	500	255	40,4	13,4	2800

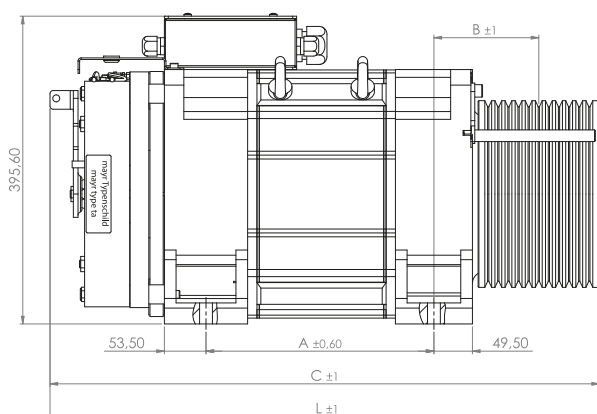
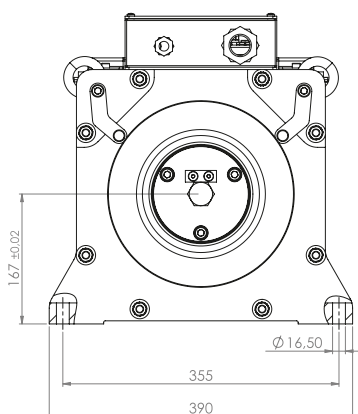
Caution

- Certificated rope must be used with 210 mm and lesser traction sheaves.
- All calculations have been made due to Drako 250T rope type.
- Feedback device is a Heidenhain ECN1313 EnDat encoder and the brakes are Mayr branded.
- Shaft efficiency is considered as 80% in all calculations.
- Maximum Static loads are given for 1:1 suspension. They need to be multiply by 2 for 2:1 suspension.
- Compensation rope must be used over 24m travel distance.
- Travel distance is considered 35-45m for 2m/s and higher cabin speeds.
- Please contact us for other load capacities.
- Sheave angles for 210 mm and 240 mm are 50°, for 320 mm and 400 mm they are 45°.
- The hardness rate of our sheaves is 50 HRC.
- Brake supply voltage is 207 VDC.

Groove Distance mm

- 210 Sheave 13
- 240 Sheave 13
- 320 Sheave 16
- 400 Sheave 20

EMF Motor reserves the right to amend dimensions, technical data and design specification without prior notification.



Motor Nr.	A mm	B mm	L mm	Weight kg
a	333	139,5	755	343
b	333	139,5	755	343
c	333	124,5	752	375
d	293	121,5	712	301
e	333	121,5	752	344
f	333	139,5	755	343
g	333	139,5	755	343

SQML 200

- Up to 3000 kg carrying capacity
- 320 mm and 400 mm traction sheave options
- 2,5 m/s speed options
- 1:1 and 2:1 suspension options

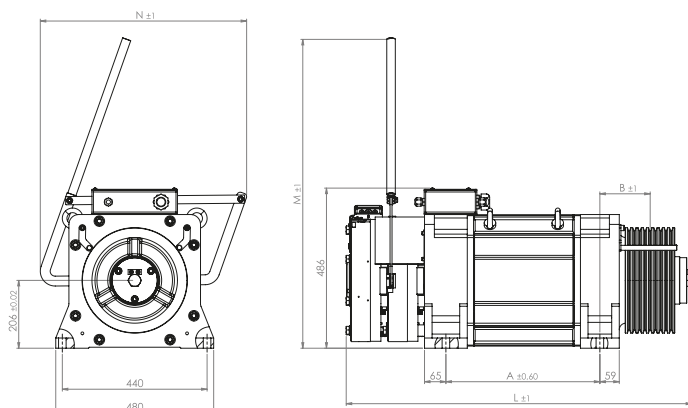


Suspension	Motor Nr.	Motor Code	Load Capacity kg	Traveling Speed m/s	Traction Sheave mm	Rope Number x Ø mm	Rated Torque Nm	Rated Speed min ⁻¹	Rated Current A	Rated Power kW	Static Load kg
2:1	a	200-240	1000	2,00	Ø 320	7 x 8	533	239	32	13,3	5700
	b	200-240	1000	2,50	Ø 400	5 x 10	675	239	46	15,3	5700
	c	200-200	1250	1,00	Ø 320	8 x 8	671	119	24	8,4	5700
	d	200-200	1250	1,60	Ø 320	8 x 8	671	191	36	13,4	5700
	e	200-240	1250	2,00	Ø 320	9 x 8	671	239	42	16,8	5700
	f	200-300	1250	2,50	Ø 400	6 x 10	841	239	52,5	21,1	5700
	g	200-200	1600	1,00	Ø 320	9 x 8	840	119	32	10,6	5700
	h	200-300	1600	1,60	Ø 320	9 x 8	852	191	42,5	17,0	5700
	i	200-300	1600	2,00	Ø 320	10 x 8	852	239	53	21,3	5700
	j	200-300	1600	2,50	Ø 400	7 x 10	1068	239	75	26,7	5700
	k	200-300	2000	1,00	Ø 320	11 x 8	1052	119	37,6	13,1	5700
	l	200-300	2000	1,60	Ø 320	11 x 8	1052	191	60	21,0	5700
	m	200-300	2000	2,00	Ø 320	12 x 8	1052	239	75	26,5	5700
	n	200-300	2000	2,50	Ø 400	8 x 10	1325	239	110	33,2	5700
	o	200-300	2500	1,00	Ø 400	9 x 10	1638	95	62,9	16,3	5700
	p	200-300	2500	1,60	Ø 400	9 x 10	1638	153	102	26,2	5700
	r	200-300	2500	2,00	Ø 400	9 x 10	1657	191	138	33,1	5700
	s	200-300	3000	0,50	Ø 400	12 x 10	1988	48	47,3	10,0	5700
	t	200-300	3000	1,00	Ø 400	12 x 10	1988	96	90,5	19,8	5700

Caution

- Certificated rope must be used with 210 mm and lesser traction sheaves.
- All calculations have been made due to Drako 250T rope type.
- Feedback device is a Heidenhain ECN1313 EnDat encoder and the brakes are Mayr branded.
- Shaft efficiency is considered as 80% in all calculations.
- Maximum Static loads are given for 1:1 suspension. They need to be multiply by 2 for 2:1 suspension.
- Compensation rope must be used over 24m travel distance.
- Travel distance is considered 35-45m for 2m/s and higher cabin speeds.
- Please contact us for other load capacities.
- Sheave angles for 320 mm and 400 mm they are 45°.
- The hardness rate of our sheaves is 50 HRC.
- Brake supply voltage is 207VDC.

EMF Motor reserves the right to amend dimensions, technical data and design specification without prior notification.



Groove Distance mm

- 210 Sheave 13
- 240 Sheave 13
- 320 Sheave 16
- 400 Sheave 20

Motor Nr.	A mm	B mm	L mm	M mm	N mm	Weight kg
a	408	146	913	562	562	562
b	408	139,5	913	581	581	581
c	368	154	873	521	521	521
d	368	154	873	521	521	521
e	408	162	913	520	520	520
f	468	154,5	973	648	648	648
g	368	162	873	520	520	520
h	468	162	973	618	618	618
i	468	170	983	632	632	632
j	468	154,5	1047	713	713	713
k	468	178	1060	697	697	697
l	468	178	1060	697	697	697
m	468	186	1060	697	697	697
n	468	174,5	1038	730	730	730
o	468	174,5	1038	729	729	729
p	468	174,5	1038	729	729	729
r	468	174,5	1038	729	729	729
s	468	204,5	1098	771	771	771
t	468	204,5	1098	771	771	771

Green Motion 220 V

- From 320 kg up to 800 kg carrying capacity
- 210 mm, 240 mm traction sheave options
- 1:1 and 2:1 suspension options
- Working feature with 220V (*)

Suspension	Motor Nr.	Motor Code	Load Capacity kg	Traveling Speed m/s	Traction Sheave mm	Rope Number x Ø mm	Rated Torque Nm	Rated Speed min ⁻¹	Rated Current A	Rated Power kW	Static Load kg
2:1	a	100-140	400	1	Ø240	5 x 6,5	170	159	16,9	2,8	1700
	b	100-140	480	1	Ø240	5 x 6,5	192	159	21,8	3,2	1700
	c	132-100	630	1	Ø240	6 x 6,5	250	159	22	4,2	2200
	d	132-140	630	1,6	Ø240	6 x 6,5	255	255	29,7	6,8	2200
	e	132-180	800	1	Ø240	7 x 6,5	325	159	23	5,4	2200
	f	132-180	800	1,6	Ø240	7 x 6,5	325	255	37	8,7	2200
1:1	g	100-160	320	1	Ø240	7 x 6,5	280	80	18	2,3	1700
	h	100-160	320	1	Ø210	8 x 6,5	245	91	16	2,3	1700
	i	132-100	320	1,6	Ø240	7 x 6,5	280	127	23	3,7	2200
	j	132-100	320	1,6	Ø210	8 x 6,5	250	146	20,5	3,8	2200
	k	132-140	400	1	Ø240	8 x 6,5	345	80	15	3,2	2200
	l	132-140	400	1	Ø210	9 x 6,5	305	91	14	2,9	2200
	m	132-140	400	1,6	Ø240	8 x 6,5	345	127	24	4,6	2200
	n	132-140	400	1,6	Ø210	9 x 6,5	305	146	21,5	4,7	2200
	o	132-160	480	1	Ø240	9 x 6,5	410	80	17	3,2	2200
	p	132-160	480	1,6	Ø240	9 x 6,5	410	127	18	5,5	2200

Caution

- Certificated rope must be used with 210 mm and lesser traction sheaves.
- All calculations have been made due to Drako 250T rope type.
- Sheave angles for 210 mm and 240 mm are 50°, for 320 mm and 400 mm they are 45°.
- Feedback device is a Heidenhain ECN1313 EnDat encoder and the brakes are Mayr branded.
- Shaft efficiency is considered as 80% in all calculations.
- Maximum Static loads are given for 1:1 suspension. They need to be multiply by 2 for 2:1 suspension.
- Compensation rope must be used over 24m travel distance.
- Travel distance is considered 35-45m for 2m/s and higher cabin speeds.
- Please contact us for other load capacities.
- The hardness rate of our sheaves is 50 HRC.
- Brake supply voltage is 207VDC.

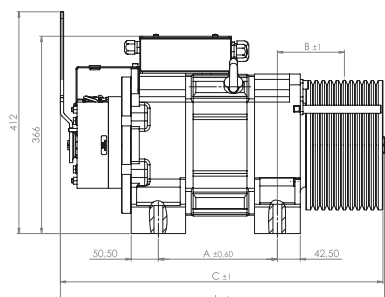
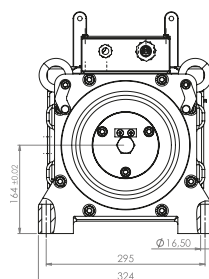
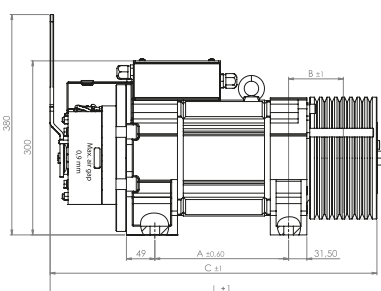
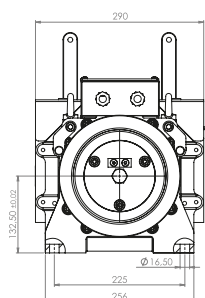
EMF Motor reserves the right to amend dimensions, technical data and design specification without prior notification.

(*) The driver must be compatible with single phase operation.

Groove Distance mm

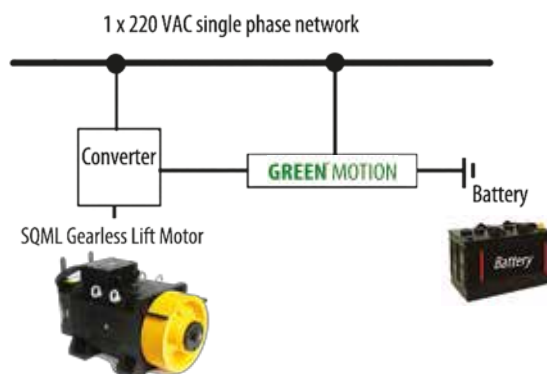
- 210 Sheave 13
- 240 Sheave 13

Motor Nr.	A mm	B mm	L mm	Weight kg
a	230,5	76	574	126
b	230,5	76	574	126
g	250,5	89	594	134
h	250,5	95	594	126
c	261	105	605	181
d	261	105	642	198
e	261	105	712	225
f	261	105	712	225
i	261	105	632	180
j	221	115	602	175
k	261	117	672	201
l	221	115	642	193
m	261	117	672	201
n	261	118	672	193
o	281	119	692	210
p	281	119	692	210



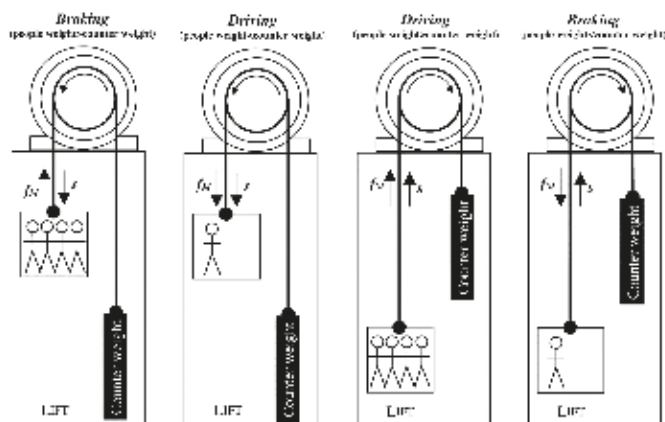
GREEN MOTION® Smart Lift Energy Management System

The system offers to elevator manufacturers and consumers featured reliability, safety, sustainability and 75 % energy saving.



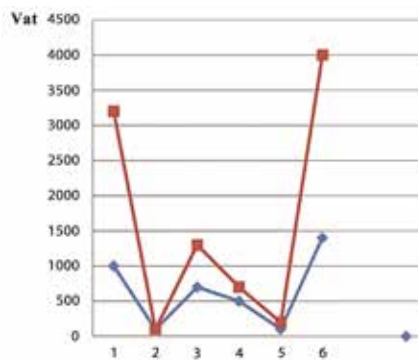
GREEN MOTION® Green Motion Smart Lift Energy Management comprises 1 x SQML lift motor, 1 x driver, 1 x Green Motion card, 1 x DC / AC Green Motion converter and 22 x 9 Amp 12 V batteries.

- GREEN MOTION® Green Motion Smart Lift Energy Management works with a SQML lift motor, one driver, one Green Motion card, one DC / AC Green Motion converter and 22 pieces of 9 Ampere 12 V.
- You do not need a generator and recovery UPS for the elevator.
- The system operates as an uninterruptible power supply. The most important feature is that when the mains electricity is cut off, there are 200 to 300 stop-and-go movements according to the load condition of the elevator without any stopping and loss of speed.
- Even when there is external power connected, 65% of the power required for normal lift operation comes from the external power and 35 % comes from the battery system.
- Compatible with renewable energy systems. Solar panels can be added.



This picture was taken from ELA E4 Energy Elevator and Escalator March 2010.

Comparison between Energy Consumption with "Green Motion" and with the driver



Energy consumption at different loads with Green Motion only with the network

	with Green Motion	only with the network
1 Downward Movement (No-Load)	1	1
2 Unloaded Up Movement (No-Load)	2	2
3 Downward Movement (Half-Load)	3	3
4 Upward Movement (Half-Load)	4	4
5 Downward Movement (Full-Load)	5	5
6 Upward Movement (Full-Load)	6	6

The "Green Motion" Smart Card reduces the electricity costs by charging the battery system overnight.

Date of examination : July 04, 2013

Annexes to this certificate : Report NL 13 EPCL P130100-01

Conclusion : The lift is examined, based on VDI 4707 Part 1:2009. The examination resulted in an energy efficiency class A

Issued in Amsterdam
Date of issue: July 18, 2013

ing. A.J. van Ommen
Manager Business Unit
Certification

Certification decision by

A

A

A

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It is possible to produce a lift in the "A" energy consumption class using our SQML gearless lift motor. An EMF Motor distributor has been able to certify an "A" level energy consumption class lift working with the Lift Institute using our SQML motor working with the LiProKa Motor Principle. We encourage all lift manufacturers in Turkey to produce elevator in the "A" Energy Consumption class and give full support.

Our References

Bayraktar Warship



Presidential Mosque



Presidential Tarabya Mansion



Boğaziçi University ve Yıldız Teknik University



Defense Ministry Warship



Ataşehir Mimar Sinan Mosque



Kordsa Sabancı Factory



Sancaktepe State Hospital



Gebze KBS Mold



Gaziosmanpaşa State Hospital



Kiptaş Hadımköy Project



Silvan State Hospital



Dore Life



Tuzla Estate Housing



Ataşehir Real Estate Housing Administration Building



Tekirdağ State Hospital



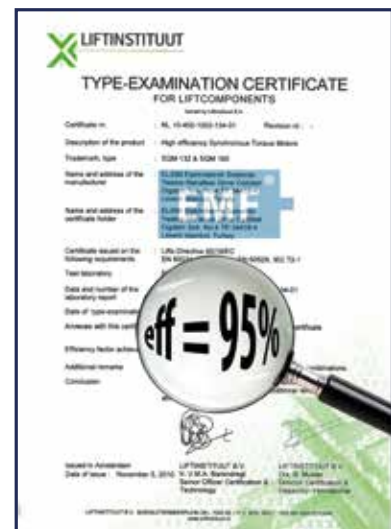
Technical Support

At EMF Motor we appreciate that technical support is very important.

With our expert service team, we can determine the cause of your problem and resolve any issues without delay, regardless of your location.

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