

SQMF Motor



Patented NEW Direct Drive Technology
SQMF Motor *for* **BIG FANS**



- 7 /24 continuously full performance
- No derating
- Unbeatable size / torque ratio
- Very quiet
- 66 poles



EMF Motor®

Why are SQMF motors different from other motors worldwide?



Continuous Operation

7 /24 continuously full performance

- No heating
- No derating
- Direct drive
- HVLS solution

Maximum air flow at all times !



220 V - 400 V at the same motor

Reduced Inventory cost

*Thanks to star-delta connection
at the same motor.*



Energy Efficient

According to Asyn motor+gearbox
energy consumption is

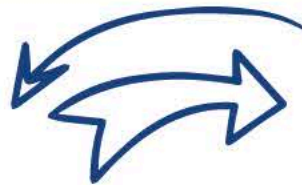
lower than 30%.

According to PM Syn and BLDC motors
total energy consumption is

lower than 20%.

Advantages

- Continuous Operation
- 220-400 V at the same motor
- Energy Efficient
- Ambient temperature 50 Celcius
- Sensorless PM control
- 66 poles
- Very quiet
- Gearless
- No oil
- No cooling
- Compact Size
- Very low cogging torque



Benefits

- Continuous air flow all the time
- Reduced inventory cost
- %20 less energy cost
- Full performance at high ambient temp.
- %20 less energy cost
- Best performance for HVLS application
- No noise
- No maintenance cost
- No risk for oil drop
- Less energy cost
- Less packaging cost, less bracket cost,
less transportation cost
- Minimum Noise level

A Success Story with **SQMF Motor Series** for **Big Fan** Applications

An SQMF100-100 motor with 66 poles delivers 120 Nm at 65 rpm, 200 V and 4.7 A, driving a six-blade HVLS fan with a 7-meter diameter. The motor drives the propeller directly and operates at a maximum speed of 50 rpm. Speed is controlled by a potentiometer.

+20
YEARS EXPERIENCE

94
EFFICIENCY

43
dB

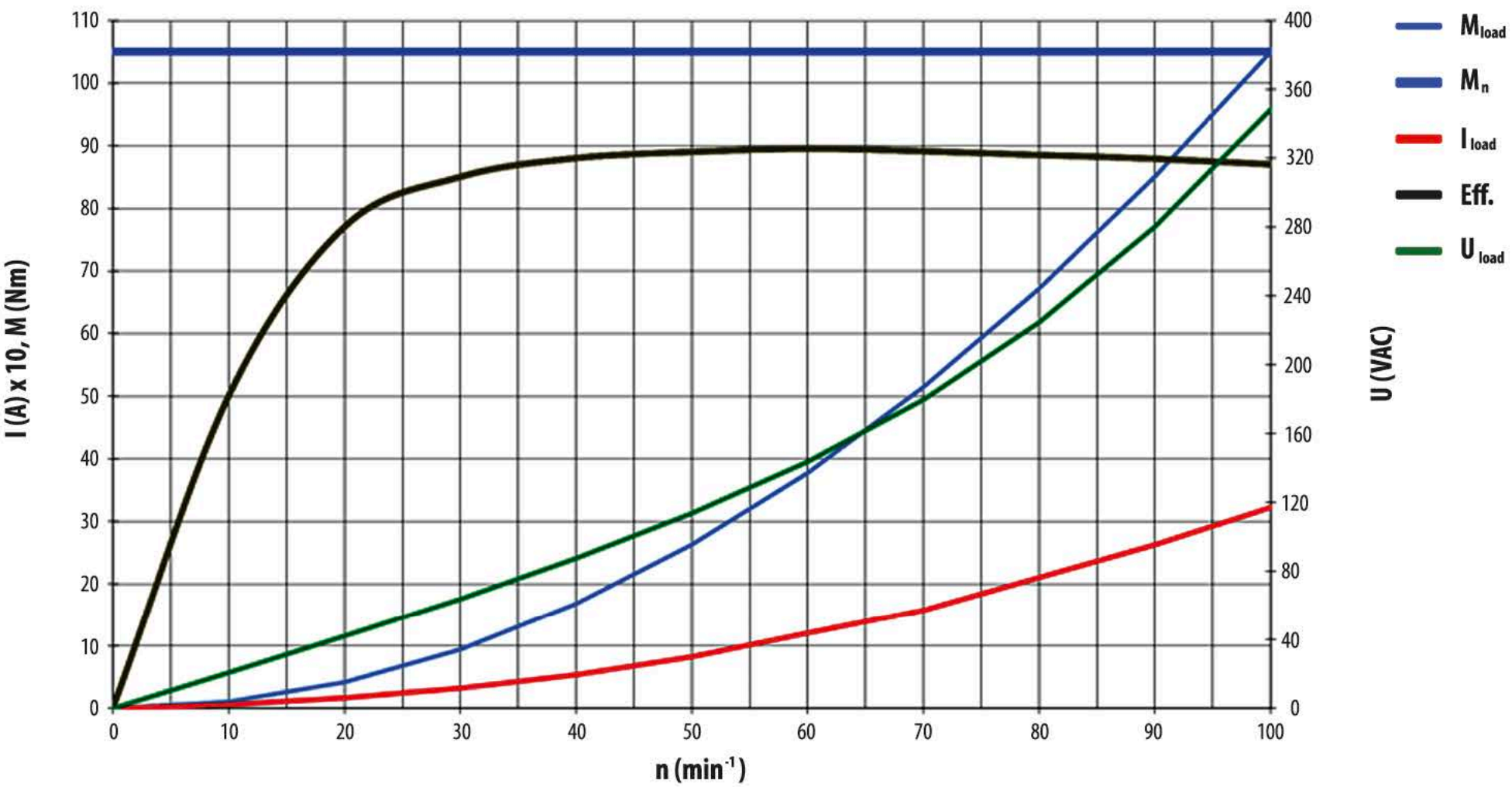
Motor Code	Speed (rpm)	Weight (kg)	Rated Torque (Nm)	Efficiency (%)
SQMF60-60	250	12	15	78
	500		14	84
SQMF60-100	250	16	24	83
	500		22	87
SQMF73-100	100	21	58	82
	150		56	86
	250		52	89
SQMF73-140	75	26	82	80
	100		80	85
	150		75	88
SQMF73-180	75	31	107	81
	100		105	85
	150		100	90
SQMF100-100	65	45	130	80
	100		120	87
SQMF100-140	60	55	170	81
	80		160	86
SQMF100-180	40	65	220	76
	60		205	85

All the calculations are made up to 7 meters (24 ft) fan diameter. Please contact EMF Motor for other supply voltage, torque and speed values.

SQMF100-100 Torque - Speed - Efficiency Diagram

M, U and I = f(n) SQMF100-100 in Star Connection

Data: 105 Nm 100 rpm 350 V 3,3 A S1

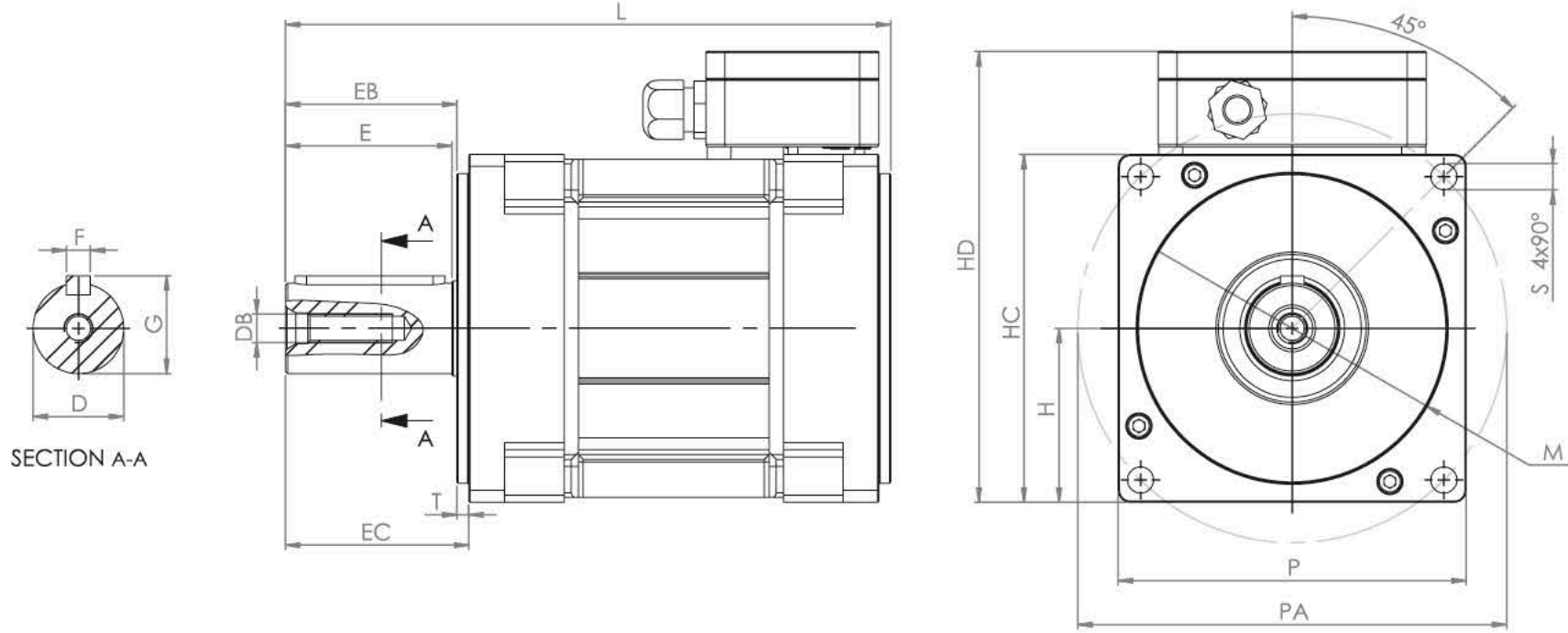


Maximum **air flow** *at all times*

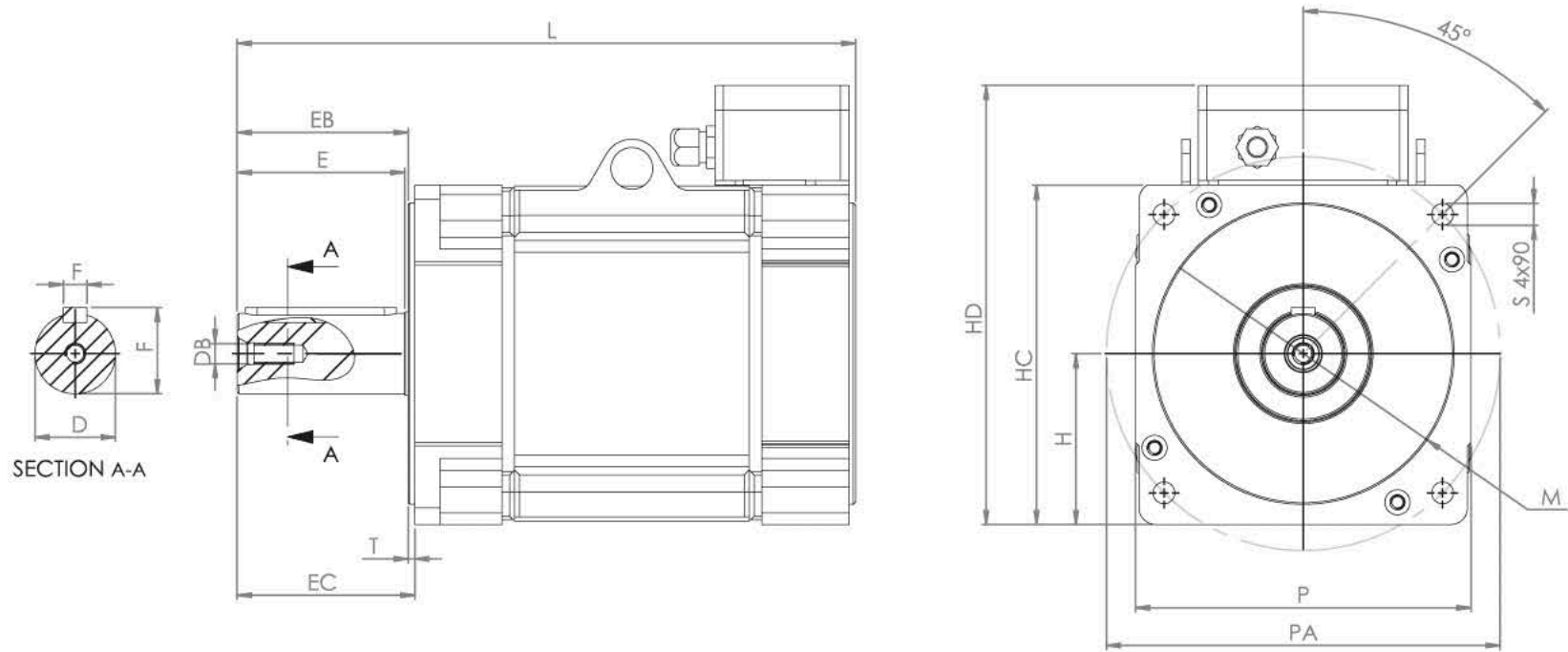
SQMF Motor for **BIG FANS**

Dimensions

Motor Code	D	DB	E	EB	EC	F	G	H	HC	HD	L	M	P	PA	S	T
SQMF73-60	38k6	M12	69	71	76	10h6	41	73	146	189,2	233	130j6	146	180	11	5
SQMF73-100											273					
SQMF73-140											313					
SQMF73-180											353					



Motor Code	D	DB	E	EB	EC	F	G	H	HC	HD	L	M	P	PA	S	T
SQMF100-100	48k6	M12	100	102	106	14h6	51,5	102	202,5	262,2	329	180j6	200	235	13	4
SQMF100-140											369					
SQMF100-180											409					



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