



66 - 88

High Pole Numbers

Direct Drive

No Gearbox, No Long Shaft

up to 97%

Unbeatable Motor Efficiency

Highly

Reliable

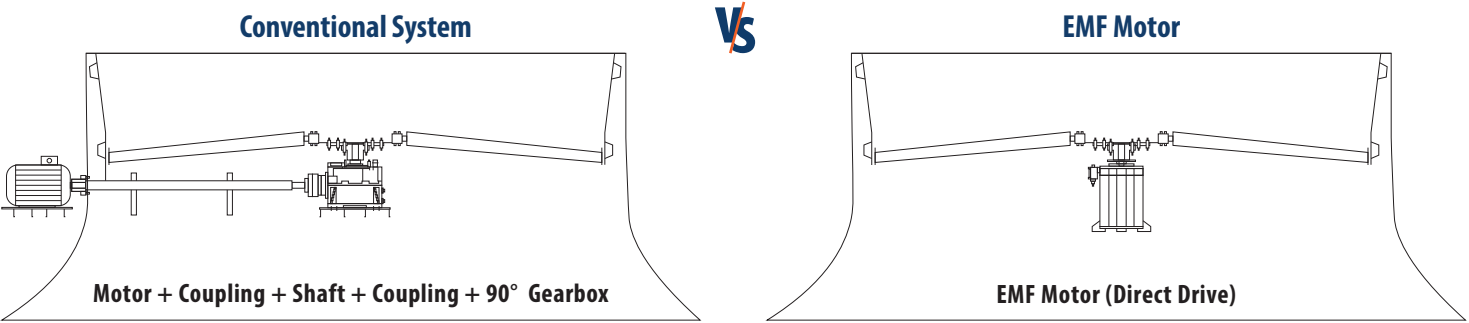
Minimal

Operating Costs

Cooling Tower Motor

Direct Drive Permanent Magnet Technology

EMF Motor®



Estimated Energy Savings*

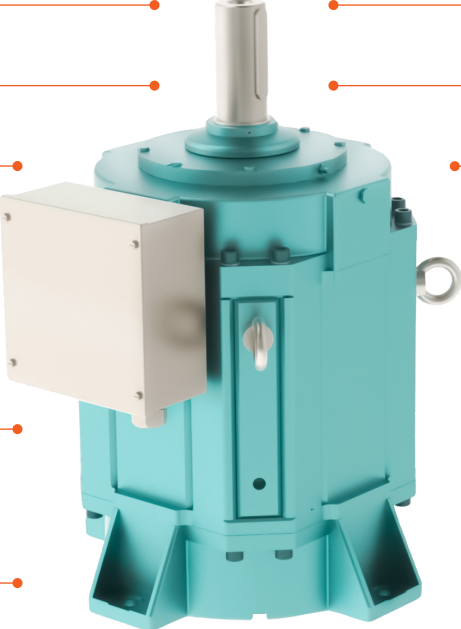


*Savings are based on \$0,12 per kWh and may vary depending on application speed. Maintenance costs are excluded.

Minimum
Maintenance Costs

Reasonable
Energy Costs

High
Reliability



- Direct drive, no gearbox, no long shaft, no coupling
- Reduced inventory costs
- Simple mounting
- Water-tight motor design operates in the air stream
- Sensorless controlled by flux vector drivers
- Special bearing
- Lowest operating cost
- Up to 97 % motor efficiency
- Highest pole numbers (66,88)
- C5VH per ISO 12944-2 (painted against corrosion)
- Low vibration, less noise, environmentally friendly
- Compact and symmetric design

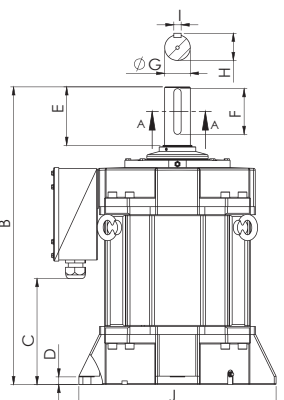
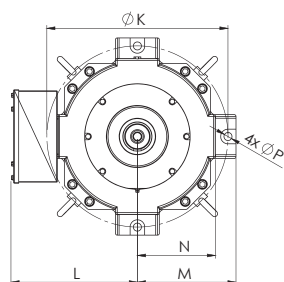
Specifications

• Mounting	Flange/Foot	• Ambient temperature	-10°C/+50°C
• Insulation	Class F	• Thermal protection	120°C PTO and (PT100, PT1000, KTY, PTC are optional)
• Protection	Class IP65	• Cooling	Natural / IC 410
• Vibration	A level according to IEC 60034-14 optional vibration sensor	• Wide voltage range	230 - 400 - 690 VAC

Values were determined according to the cooling effect with the air flow from the motor surface. Air flow must be minimum 3 m/s. Ambient temperature is maximum 50° C. Datas are according to maximum 1.000 meters altitude. Supply voltage is 400 VAC, 3 ph.

Data for Reference

Motor Code	Pole Number	P _N (kW)	n _N (rpm)	M _N (Nm)	f _N (Hz)	kt (Nm/A)	I _N (A)	Efficiency (%)	Weight (kg)
SQMC132-150	66	6,3	200	300	110	19,2	15,6	92,0	145
		4,7	300	150	165	15,8	9,5	89,0	
SQMC132-200	66	9,8	200	470	110	18,2	25,8	93,5	165
		8,2	300	260	165	15,1	17,2	92,0	
SQMC132-250	66	12,6	200	600	110	17,5	34,3	94,0	185
		11,9	300	380	165	15,0	25,3	93,5	
SQMC132-300	66	15,3	200	730	110	18,4	39,6	95,0	205
		16,6	300	530	165	14,3	37,1	94,5	
SQMC200-200	88	22,0	200	1.050	147	17,6	59,5	94,5	405
		19,2	300	610	220	14,0	43,6	92,0	
SQMC200-300	88	33,5	200	1.600	147	17,0	94,0	95,0	515
		28,3	300	900	220	14,1	63,7	93,0	
SQMC200-400	88	44,0	200	2.100	147	16,2	130,0	96,0	625
		37,7	300	1.200	220	15,8	76,0	93,5	
SQMC200-500	88	54,5	200	2.600	147	16,3	160,0	96,0	735
		50,3	300	1.600	220	13,6	118,0	93,0	
SQMC250-300	88	47,1	150	3.000	110	20,4	147,0	95,5	900
		41,9	200	2.000	147	20,0	100,0	94,5	
SQMC250-400	88	59,7	150	3.800	110	19,4	195,5	96,0	1.100
		54,5	200	2.600	147	19,2	135,5	95,0	
SQMC250-500	88	78,5	150	5.000	110	19,5	256,0	96,0	1.300
		73,3	200	3.500	147	19,3	181,0	95,5	
SQMC250-600	88	86,4	150	5.500	110	20,4	270,0	96,0	1.500
		83,8	200	4.000	147	20,0	200,0	96,0	
SQMC400-300	66	79,0	100	7.545	55	29,4	257,0	95,0	
		93,0	150	5.920	83	22,9	259,0	96,0	
		100,9	200	4.820	110	19,7	245,0	96,0	
SQMC400-400	66	93,9	100	8.970	55	34,9	257,0	95,0	
		106,0	150	6.750	83	26,3	257,0	96,0	
		115,0	200	5.490	110	21,4	257,0	96,0	
SQMC400-500	66	109,9	100	10.500	55	32,6	322,0	96,0	
		130,0	150	8.275	83	27,1	305,0	96,0	
		145,0	200	6.925	110	21,8	318,0	96,0	
SQMC400-600	66	131,9	100	12.600	55	32,6	387,0	96,0	
		156,0	150	9.930	83	26,1	381,0	96,0	
		165,0	200	7.880	110	19,7	400,0	96,0	
SQMC400-700	66	157,1	100	15.000	55	30,6	490,0	96,0	
		177,0	150	11.270	83	23,0	490,0	96,0	
		189,9	200	9.070	110	18,2	497,0	96,0	



Dimensions

Motor Code	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"P"
SQMC132-100	475	124	24	120	100	Ø60 m6 ^(+0,03) _(+0,01)	64	18	Ø340	Ø307,5	238,5	-	-	17,5
SQMC132-150	525	174												
SQMC132-200	575	224												
SQMC132-250	625	274												
SQMC132-300	675	324	21	160	125	Ø70 m6 ^(+0,03) _(+0,01)	74,5	20	Ø540	Ø496	346	270	213,5	Ø22
SQMC200-200	716	202												
SQMC200-300	816	302												
SQMC200-400	916	402												
SQMC200-500	1016	502	29	230	180	Ø100 m6 ^(+0,04) _(+0,01)	106	208	Ø680	Ø635	380	340	254	Ø26
SQMC250-300	945	282												
SQMC250-400	1045	382												
SQMC250-500	1145	482												
SQMC250-600	1245	582												



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