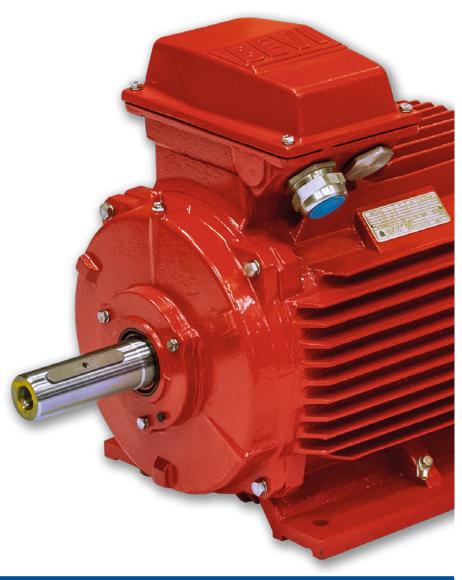
DT dry kiln motors Energy efficient electric motors for sawmills, pulp and paper industries







DT – electric motors for tough applications

After long time cooperation with sawmills in the Swedish regions of Småland and Norrland, BEVI has developed an electric motor with high efficiency specially adapted for tough applications, e.g. dry kilns and areas within the pulp industry.

The motor is designed and produced to meet the tough demands with very high ambient temperatures and high humidity, as well as strong radial and axial forces on the motor shaft.

Construction

The stator housing and bearing shields are made of strong cast iron, for excellent durability and best bearing seat. The terminal box is mounted towards the drive end as standard. It can be mounted towards the non-drive end if desired

All external screws, name plates, grease nipples and cable glands are made of stainless steel.

The non-drive end is fully enclosed without shaft, fan or fan cover. The ball bearings are dimensioned for heavy duty, high ambient temperatures and high humidity.

Maintenance

Nipples for lubrication of ball bearings and grease drainage is available as standard. All motors are delivered with high temperature grease.

Enclosure (Degree of Protection)

IP55 enclosure is standard for the motors. This can be adjusted to IP44 by removing the two condensate plugs located underneath the stator body.

Temperature monitoring

The motors have built-in thermistors for monitoring or alarm and effective protection from overheating. On the bigger motor sizes a special cable gland is available for this. The motors can be modified with thermal contacts if desired.

Cooling

The motors are designed to be cooled by the air flow from the drying fan and are thus without their own cooling fan. For particularly large hubs on the drying fan, the motors can be ordered with its own cooling

Insulation class and rated power

All motors are equipped with the higher insulation class H (maximum working temperature 180°C) on the winding material. But they are calculated/dimensioned for class B, which gives a large overload margin and long service life.

As standard the DT motors are dimensioned for frequency drive operation.

Frame size

The motors have IEC dimensions on the shaft and foot attachment. The kW may deviate from IEC standards due to special windings and higher ambient temperatures than normal.

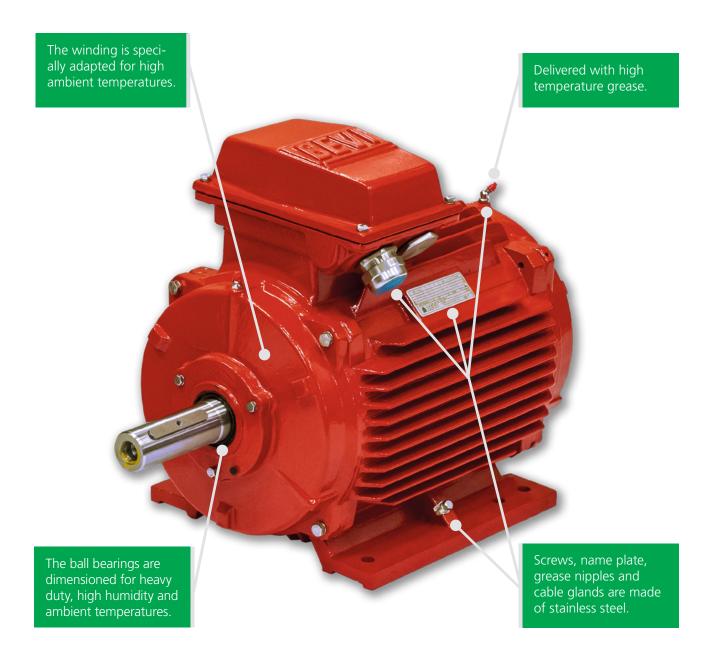
Options

Normally the motors are in B3 design. This can be modified to B5 or B3/B5 design.

They can be equipped with anti-condensation heaters and without a terminal box, with directly mounted cable, if required. Many other modifications, such as an extended special shaft, are also available on request.

Energy efficient electric motors for sawmills, pulp and paper industries





DT is a series of electric motors specially adapted for tough applications, such as dry kilns.



DT, 4 pole motors

Тур	Efficiency class	Rated power kW	Rated speed rpm 50Hz 400V	Rated current 400V 50Hz	Weight
2DT3 100L1-4	IE3	2.2	1455	4.5	44
2DT3 100L2-4	IE3	3	1455	6.0	49
2DT3 112M-4	IE3	4	1 450	8.2	56
2DT3 132S-4	IE3	5.5	1450	10.9	81
2DT3 132M-4	IE3	7.5	1 450	14.6	91
3DT3 160M-4	IE3	11	1470	20.8	125
3DT3 160L-4	IE3	15	1 470	27.8	146
3DT3 180M-4	IE3	18.5	1475	34.0	202
3DT3 180L-4	IE3	22	1475	40.3	226
3DT3 200L-4	IE3	30	1 480	54.6	288
3DT3 225S-4	IE3	37	1 485	67.0	330
3DT3 225M-4	IE3	45	1480	80.2	351
3DT4 160M-4	IE4	11	1475	20.5	144
3DT4 160L-4	IE4	15	1475	27.4	172
3DT4 180M-4	IE4	18.5	1480	33.3	212
3DT4 180 L-4	IE4	22	1480	39.5	230
3DT4 200L-4	IE4	30	1485	53.6	308
3DT4 225-S4	IE4	37	1485	66.0	383
3DT4 225M-4	IE4	45	1485	80.1	408

DT, 6-pole motors

Typw	Efficiency class	Rated power kW	Rated speed rpm 50Hz 400V	Rated current 400V 50Hz	Weight
2DT3 112M-6	IE3	2.2	955	5.1	53
2DT3 132S-6	IE3	3	975	6.9	79
2DT3 132M1-6	IE3	4	975	9.1	86
2DT3 132M2-6	IE3	5.5	975	12.1	98
3DT3 160M-6	IE3	7.5	970	15.9	114
3DT3 160L-6	IE3	11	975	22.7	134
3DT3 180L-6	IE3	15	980	29.8	185
3DT3 200L1-6	IE3	18.5	985	36.5	235
3DT3 200L2-6	IE3	22	980	42.6	253
3DT3 225M-6	IE3	30	980	58.3	295
3DT4 160M-6	IE4	7.5	980	15.6	130
3DT4 160L-6	IE4	11	980	22.3	166
3DT4 180L-6	IE4	15	985	29.1	213
3DT4 200L1-6	IE4	18.5	985	35.9	260
3DT4 200L2-6	IE4	22	985	41.8	272
3DT4 225M-6	IE4	30	985	56.0	332

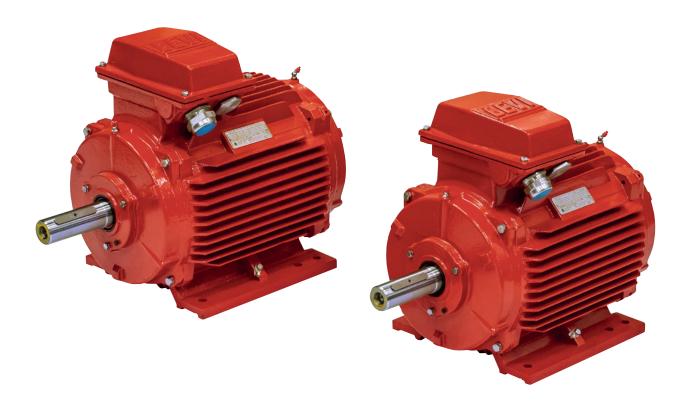
Customer references

"During fifteen years we have installed electric motors from BEVI in our lumber kilns. This has led to an increased availability in our production while costs for energy, maintenance and spare parts have decreased significantly."

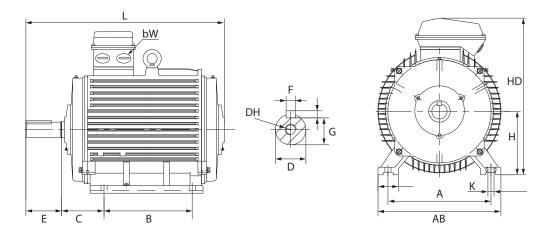
Magnus Öhman
Purchasing manager, SCA Timber, Bollstabruk, Sweden

"Since the sawmill was built in 1999, we have cooperated with BEVI for replacement and service of electric motors for our lumber kilns. BEVI's knowledge of our needs, motors and lumber kilns has resulted in shorter downtime and has saved us both money and energy."

Christer Boklund Maintenance manager electricity, Södra Timber, Mönsterås, Sweden



Dimensions DT motors



Туре	Α	В	С	D	E	F	G	DH	Н	K	АВ	HD	bW	L
DT 100L	160	140	63	28	60	8	24	M10	100	12	205	290	1-M20×1.5	362
DT 112M	190	140	70	28	60	8	24	M10	112	12	230	325	1-M25 × 1.5	396
DT 132S	216	140	89	38	80	10	33	M12	132	12	270	365	2-M25 × 1.5	343
DT 132M	216	178	89	38	80	10	33	M12	132	12	270	365	2-M25 × 1.5	422
DT 160M	254	210	108	42	110	12	37	M16	160	14.5	320	440	2-M40×1.5	568
DT 160L	254	254	108	42	110	12	37	M16	160	14.5	320	440	2-M40×1.5	597
DT 180M	279	241	121	48	110	14	42.5	M16	180	14.5	355	470	2-M40×1.5	620
DT 180L	279	279	121	48	110	14	42.5	M16	180	14.5	355	470	2-M40×1.5	668
DT 200L	318	305	133	55	110	16	49	M20	200	18.5	395	525	2-M50 × 1.5	675
DT 225S	356	286	149	60	140	18	53	M20	225	18.5	435	580	2-M50×1.5	692
DT 225M	356	311	149	60	140	18	53	M20	225	18.5	435	580	2-M50×1.5	720

Measurements in mm.



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Contact BEVI

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