

DC motor type/Catalogue reference : **LAK 4160C / FR 157 101-CB**

Data at armature voltage (U _a)		400 V	440 V	460 V	500 V
Nominal Output (P _n) :	(kW)	73,1	80,9	84,9	92,7
Base speed (n _b) :	(min ⁻¹)	2220	2460	2579	2822
Armature current (I _a) :	(A)	200	200	200	200
Nominal Torque (T _n) :	(Nm)	314	314	314	314

Max speed by field weakening, at constant power (n₂) : **3230** (min⁻¹)

Excitation voltage (U _e) :	360 / 180 (V)	dual excitation
Excitation current (I _e) :	3,91 / 7,82 (A)	

Overload in speed range 0 to n_b : 180% FLC for 15 sec every 5 min

Duty : S1 - continuous

Operating conditions

Electrical supply :	Fed from 3-phase fully controlled thyristor converter
Form Factor :	Max 1.05 for 100% output
Ambient temperature :	max 40 °C for 100% output
Altitude :	max 1000 m a s l for 100% output
Humidity :	normal / high : above 6 g/m ³
Environment :	Industrial, indoor, non-hazardous

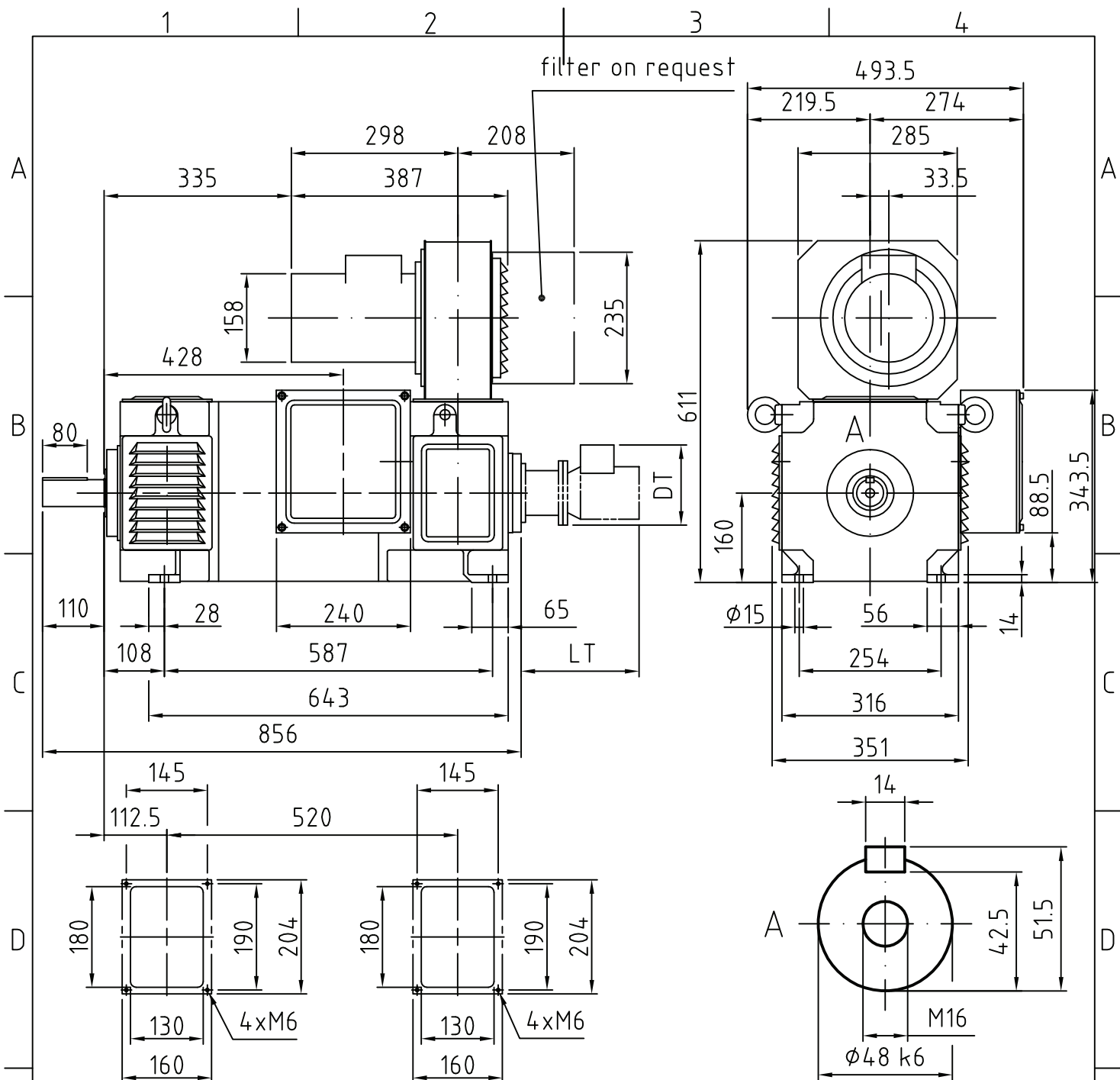
Motor design

Standards :	IEC 34 - IEC 72 etc.
Mounting arrangement :	IM1001 Horizontal foot mounting, 1 shaft extension
Degree of protection :	IP23 Drip proof
Cooling form :	IC06 with fan blower. Free circulation.
	IC17 no fan blower, ducted air inlet. Free circulation
Required cooling air flow :	880 (m ³ /h)
Internal static air pressure drop :	980 (Pa)
Insulation class / Temperature rise :	H / F
DC Motor Mass :	275 (kg) - without fan blower
Moment of inertia - rotor :	0,31 (kgm ²)
Arm. resistance at 115°C :	0,11 (Ohms)
Armature inductance :	2,3 (mH)
Fan blower / air inlet and Terminal box position :	N° 9
Fan blower / air inlet on TOP, Terminal box on RHS, viewed from D-end	
Bearings D-end :	Regreasable roller bearing NU 310 ECP
N-end :	Sealed ball bearing 6309-2RS1-HT-C3
Brushes :	12 brushes, reference : FR 4391 0010-9 (twin brushes)
Temperature protection :	PTC thermistors in interpoles for trip, D-end and N-end Klixon thermostats NC for trip in interpoles, D-end and N-end
Winding impregnation :	Reinforced
Provision for speed device :	with B10 flange (Euroflange) and Rotex coupling (11 mm bore)

Fan Blower (for IC06)

AC motor :	2-pole
Data :	Coupling Supply voltage/frequency Current (A) Output (kW)
	Y-coupled : 3 x 380 - 420 V, 50 Hz 2,1 0,75
	3 x 440 - 480 V, 60 Hz 2,0 0,90
	D-coupled : 3 x 220 - 240 V, 50 Hz 3,6 0,75
	3 x 250 - 280 V, 60 Hz 3,5 0,90
Fan Blower Mass :	18 (kg)
Air filter :	Standard flat filter

Dimension drawing : **FR 4411 0761-10**



Tacho	LT	DT
REO 444 N1	201	75
REO 444 R1	211	123.5
TPD 0.2 LT4	217	120
TD 3	32	128
GTR 9.16	73	126
No tacho	15	95

Encoder	LT	DT
POG 9	179	120
L & L 520	125	75
Litton G71 HS	139	105
AK 511	70	85
No tacho	15	95

IM	1001
IC	06/17/37
IP	23/54/55
Pos.	9

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LAK 4160C/CC

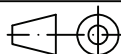
Date	Nom
Dessiné 15/06/01	T-QUISPE
Vérifié 15-06-01	B-DERVAL
Norme	

DIMENSION DRAWING
PLAN D'ENCOMBREMENT

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Echelle 1:1



✓ Ra in microns



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