

THREE-PHASE-ASYNCHRONOUS-MOTOR FCMP 315 LB 4 /PHE

IE3AC31LB401

General data

Type of motor	3~
Type designation	FCMP
Frame size	315
Mounting	B35
Frame execution	L
Frame material	Grauguß
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	1238
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to	IEC 60034-1
noise level	IEC 60034-9

Influential factors

Duty	S1
Ambient temperature (°C)	-20 up to +40
Height of location (m)	1000

Electrical specification

Power 1 50Hz (kW)	200
Power 1 60Hz (kW)	200
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/795
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	96,0
Efficiency 75% 50Hz (%)	96,0
Efficiency 50% 50Hz (%)	94,1
Efficiency 100% 60Hz (%)	96,2
Efficiency 75% 60Hz (%)	96,0
Efficiency 50% 60Hz (%)	94,1
Power factor	0,9
Starting current factor	6,9
Starting torque factor	2,2
Tilting moment factor	2,2
Rated current 50Hz (A)	334,11/193,68
Rated current 60Hz (A)	289,94/168,16
Eff.Cl.50Hz	IE3

Electrical specification

Eff.Cl.60Hz	IE3
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Mechanical data

Torque (Nm)	1.281,88/1068,23
Rotation speed (1/min)	1490/1788
Bearing DE	6319.C3
Bearing NDE	6319.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	fixed bearing
Bearing lifetime	20000
allow. Radial load (X/2)	15500
allow. Radial load (X0)	22000
allow. Radial load (Xmax)	9000
allow. Axial load B3,B5,B35,B14,B34	7875
allow. Axial load V1,V3,V19,V18	4430
Moment of inertia	5

Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	2xM63x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Standard
Shaft end	80 x 170
Shaft material	C45
Specification NDE	Plastic fan
Flange	660

Additional operating points

Voltage operating point 2	460/795
Power operating point 2 (kW)	240
Connection operating point 2	Δ/Y
Frequency operating point 2	60
Efficiency class operating point 2	IE2

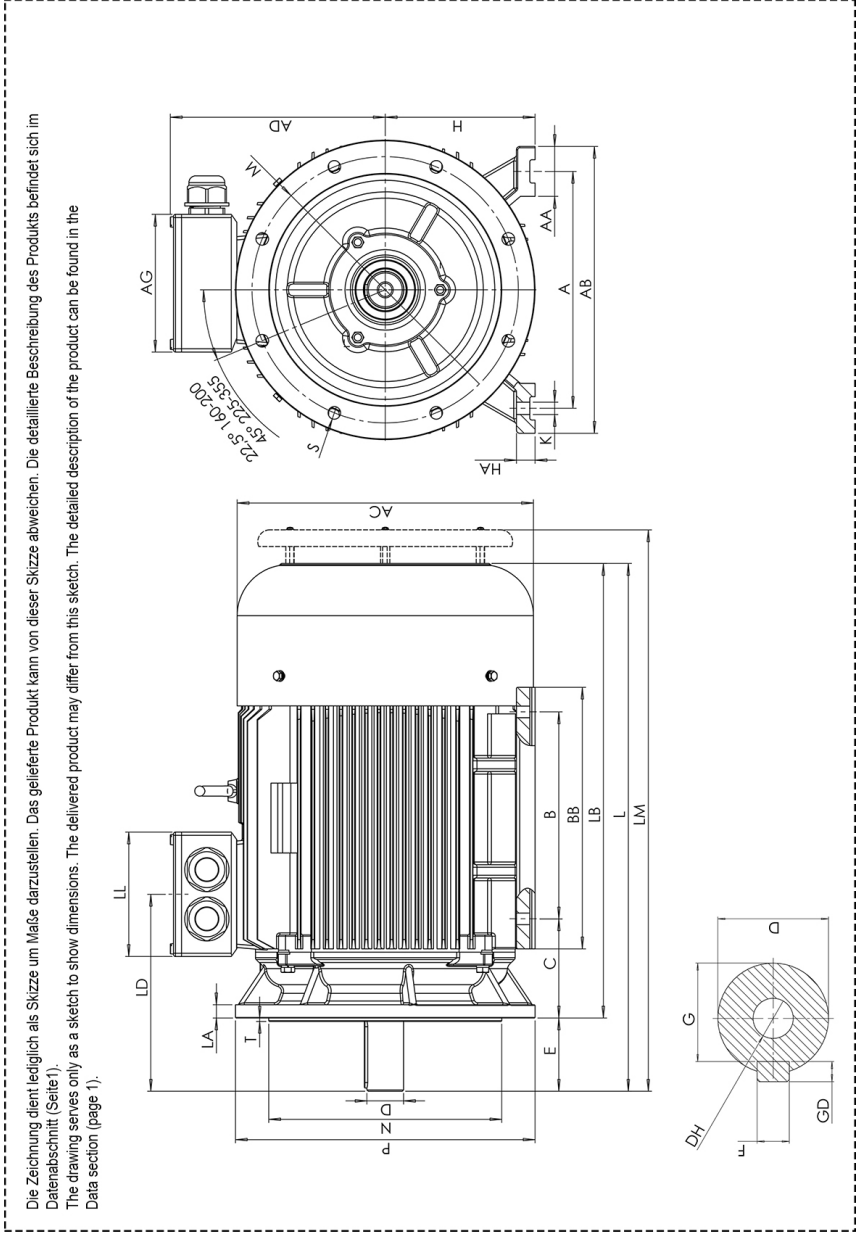
Additional option

Protection winding	PTC 150°C
Regreasing device	AS+BS

Dimension drawings

Three-Phase-Asynchronous- Motor FCMP 315 LB 4 /PHE

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A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LM	LA	LB	LD	LL	M	N	P	S	T
508	120	628	620	527	320	508	680	216	80	170	315	45	28	1338	1413	22	1168	427	280	600	550	660	8x24	6
F	22	G		ED	GD	DH		EB	AB		M20x42		5		14		160		5		14		14	