

## Three-Phase-Asynchronous-Motor FCA 100 LB 4/HE

IE2AC10LB408

### General data

Kind of motor	3~
Type designation	FCA
Frame size	100
Mounting form	B5
Frame execution	L
Frame material	Aluminium
Insulation class	F/B
Terminal box location	top DE
Terminal box orientation	0° cable gland right side
Weight (kg)	24,00
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to noise level	IEC 60034-1 IEC 60034-9

### Electrical data

Power 1 50Hz (kW)	3,00
Power 1 60Hz (kW)	3,60
Frequency (Hz)	50/60
Voltage 50Hz (V)	230/400
Voltage 60Hz (V)	265/460
Voltage/Frequency tolerance (not valid for range voltage)	range B
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	85,5
Efficiency 75% 50Hz (%)	85,8
Efficiency 50% 50Hz (%)	83,8
Efficiency 100% 60Hz (%)	87,5
Efficiency 75% 60Hz (%)	85,8
Efficiency 50% 60Hz (%)	83,8
Power factor	0,82
Starting current (Ia/In)	7,5
Starting torque (Ma/Mn)	2,3
Breakdown torque (Mk/Mn)	2,3
Current 50Hz (A)	10,74/6,18
Current 60Hz (A)	10,93/6,30
Eff.Cl.50Hz	IE2
Eff.Cl.60Hz	IE2

### Motor characteristics

Color	RAL7030
Paint surface	silk-gloss
Protection class	IP55
Cable gland size (cable connection)	1xM25x1,5 1xblind plug
Cable gland type	Standard
Shaft end (mm)	28 x 60
Shaft material	C45
Specification NDE	Plastic fan
Flange size	250

### Mechanical data

Torque (Nm)	19,90/19,90
Rotation speed (1/min)	1440/1728
Bearing DE	6206.ZZ.C3
Bearing NDE	6206.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2) (N)	1125
allow. Radial load (X0) (N)	1250
allow. Radial load (Xmax) (N)	1000
allow. Axial load (N)	950
allow. Axial load (V1) (N)	905
Moment of inertia (kgm <sup>2</sup> )	0,0068

### Influencing factors

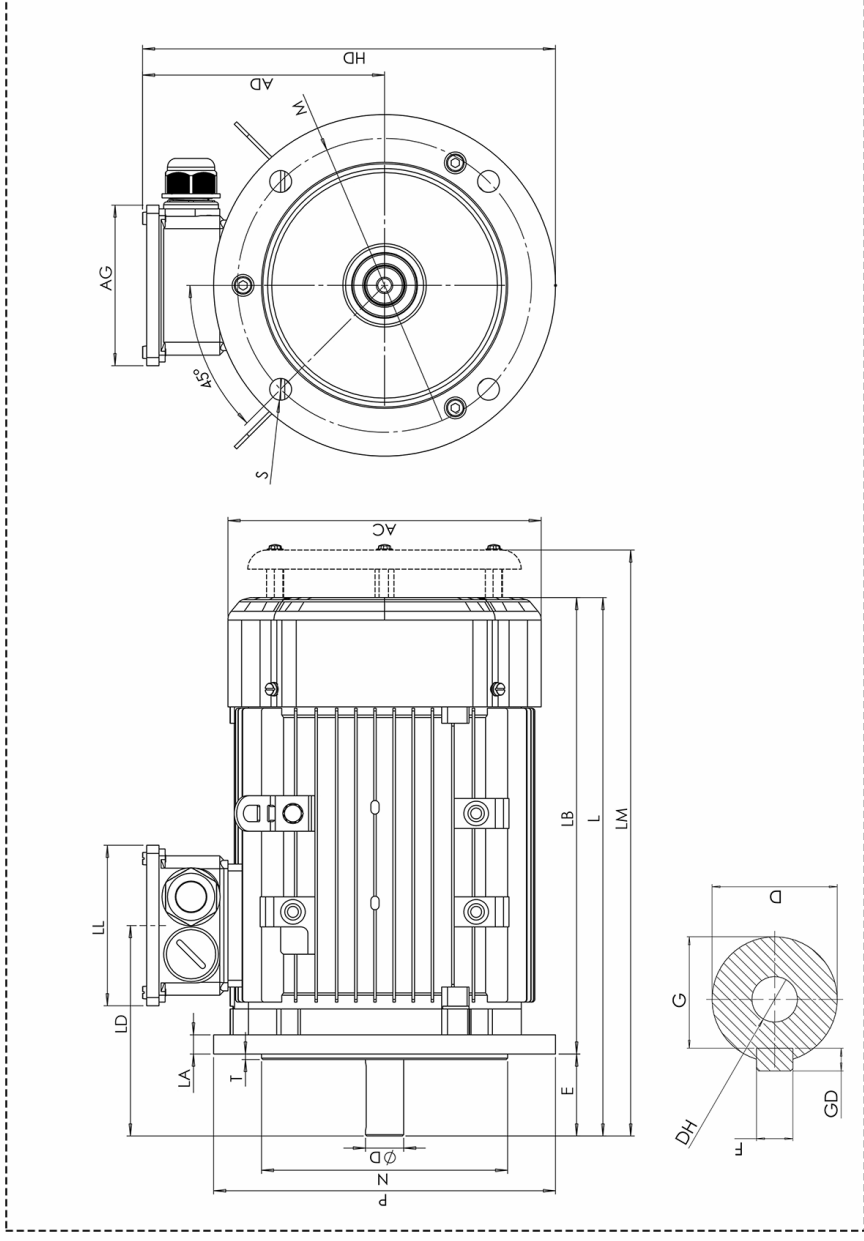
Duty	S1
Ambient temperature (°C)	-20 up to +40
Height of location (m)	1000

Technical changes and errors reserved.

14.02.2019

## Drawings

### Three-Phase-Asynchronous-Motor FCA 100 LB 4/HE IE2AC10LB408



S	T	HD	P	N	M	LB	LA	LM	IPE/KK	DH	ED	G	LL	L	AG	GD	EB	F	E	D	AD	AC
4x14,5	4,00	276,00	250	180	215	314	13	404	M25x1,5	M10x22	5,00	24,00	109,00	374,00	109,00	7	50	8	60	28	151	195