

Motor AC

General data

Kind of motor	3~
Type designation	FCA
Frame size	112
Mounting form	B5
Frame execution	M
Frame material	Aluminium
Insulation class	H
Terminal box location	top DE
Terminal box orientation	0° cable gland right side
Weight (kg)	37,00
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to	IEC 60034-1

Electrical data

Power 1 50Hz (kW)	4,00
Power 1 60Hz (kW)	4,80
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/795
Voltage/Frequency tolerance (not valid for range voltage)	range B
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	88,6
Efficiency 75% 50Hz (%)	88,6
Efficiency 50% 50Hz (%)	86,8
Efficiency 100% 60Hz (%)	91,7
Efficiency 75% 60Hz (%)	88,6
Efficiency 50% 60Hz (%)	86,8
Power factor	0,82
Starting current (Ia/In)	7,7
Starting torque (Ma/Mn)	2,3
Breakdown torque (Mk/Mn)	2,3
Current 50Hz (A)	7,95/4,61
Current 60Hz (A)	8,01/4,64
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Motor characteristics

Color	RAL7030
Paint surface	silk-gloss
Protection class	IP55
Cable gland size (cable connection)	1xM32x1,5 1xblind plug
Cable gland type	Messing
Shaft end (mm)	28 x 60
Shaft material	C45
Specification NDE	Metal fan
Flange size	250

Mechanical data

Torque (Nm)	26,53/26,53
Rotation speed (1/min)	1440/1728
Bearing DE	6306.ZZ.C3.GJN(150)
Bearing NDE	6306.ZZ.C3.GJN(150)
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2) (N)	1100
allow. Radial load (X0) (N)	1225
allow. Radial load (Xmax) (N)	975
allow. Axial load (N)	950
allow. Axial load (V1) (N)	905
Moment of inertia (kgm ²)	0,011

Influencing factors

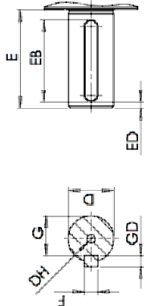
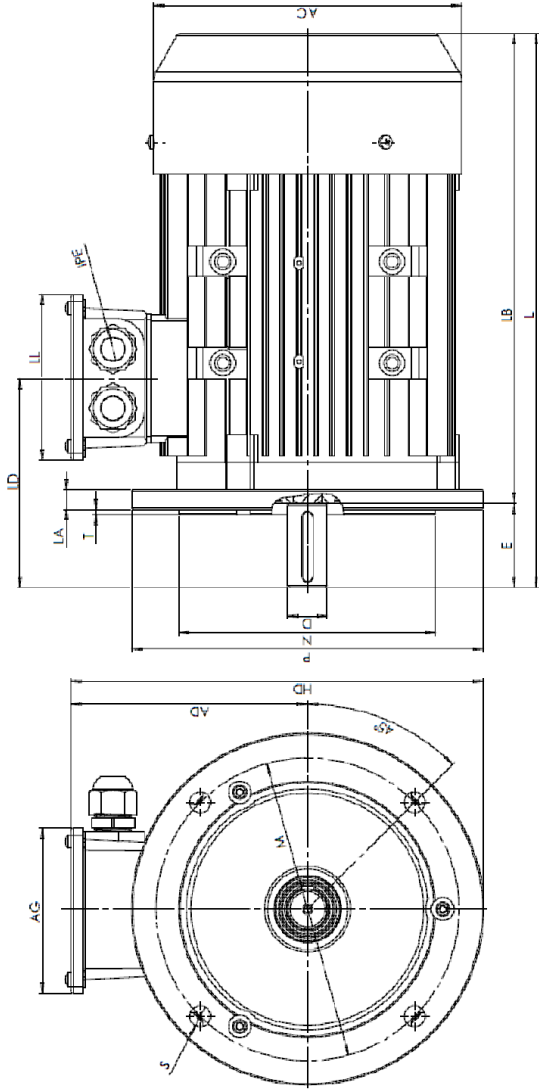
Duty	S1
Ambient temperature (°C)	-20 bis +65
Height of location (m)	1000

Technical changes and errors reserved.

14.05.2018

Drawings

Motor AC



S	T	HD	P	N	M	LB	LA	IPE/KK	DH	ED	G	LL	L	AG	GD	EB	F	E	D	AD	AC
4x14.5	4.00	291.00	250	180	215	334	14	M32x1.5	M12x28	5.00	24.00	117.50	394.00	117.50	7	50	8	60	28	166	219