

Three-Phase-Asynchronous-Motor FCA 132 S 6/PHE

IE3AC13S6005H

General data

Type of motor	3~
Type designation	FCA
Frame size	132
Mounting	B5
Frame execution	S
Frame material	Aluminium
Insulation class	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	43,00
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	6
Efficiency 100% 50Hz (%)	85,6
Efficiency 75% 50Hz (%)	85,6
Efficiency 50% 50Hz (%)	83,9
Efficiency 100% 60Hz (%)	89,5
Efficiency 75% 60Hz (%)	85,6
Efficiency 50% 60Hz (%)	83,9
Power factor	0,74
Starting current (Ia/In)	6,2
Starting torque (Ma/Mn)	2
Breakdown torque (Mk/Mn)	2,1
Current 50Hz (A)	11,89/6,84
Current 60Hz (A)	11,84/6,82
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Motor characteristics

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	1xM32x1,5 1xblind plug
Cable gland type	Standard
Shaft end (mm)	38 x 80
Shaft material	C45
Specification NDE	Plastic fan
Flange size	300

Mechanical data

Torque (Nm)	29,60/29,61
Rotation speed (1/min)	968/1161
Bearing DE	6308.ZZ.C3
Bearing NDE	6308.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2) (N)	1887
allow. Radial load (X0) (N)	2125
allow. Radial load (Xmax) (N)	1650
allow. Axial load B3,B5,B35,B14,B34 (N)	1725
allow. Axial load V1,V3,V19,V18 (N)	1675
Moment of inertia (kgm²)	0,03

Influencing factors

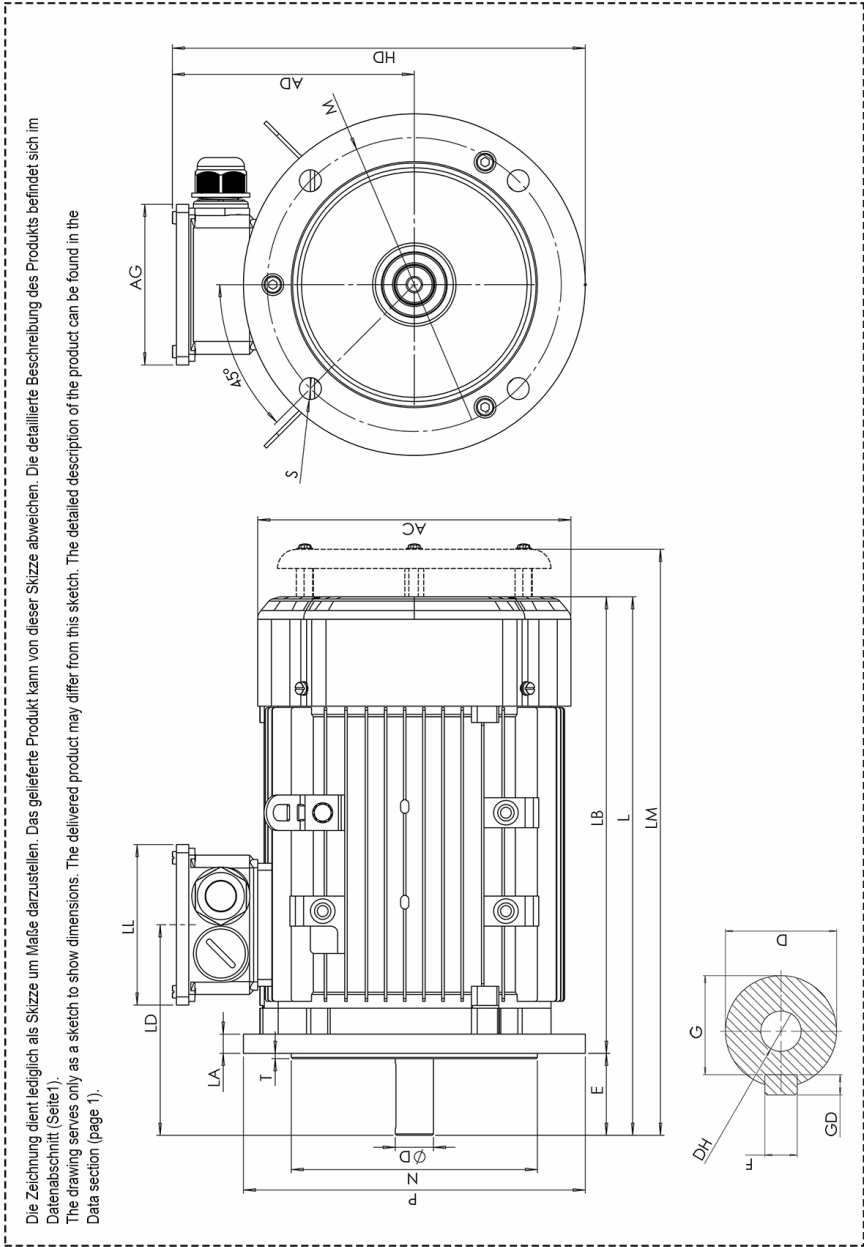
Duty	S1
Ambient temperature (°C)	-20 up to +40
Height of location (m)	1000

Technical changes and errors reserved.

22.07.2021

Drawings

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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	338,00	300	230	265	365	14	485	M32x1,5	M12x28	7,50	33,00	117,50	445,00	117,50	8	65	10	80	38	191	258