

Three-Phase-Asynchronous-Motor ACA 100 LA 4/PHE

IE3AC10LA402

General data

Kind of motor	3~
Type designation	ACA
Frame size	100
Mounting form	B3
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)	25,40
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

Electrical data

Power 1 50Hz (kW)	2,20
Power 1 60Hz (kW)	2,64
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 (%)	86,7
Efficiency 75% 50Hz (%)	86,7
Efficiency 50% 50Hz (%)	85,0
Efficiency 100% 60Hz (%)	89,5
Efficiency 75% 60Hz (%)	86,7
Efficiency 50% 60Hz (%)	85,0
Power factor	0,81
Starting current (Ia/In)	7,5
Starting torque (Ma/Mn)	2,3
Breakdown torque (Mk/Mn)	2,3
Current 50Hz (A)	7,86/4,52
Current 60Hz (A)	7,93/4,57
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Motor characteristics

Color	RAL7030
Paint surface	shiny
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

Mechanical data

Torque (Nm)	14,64/14,64
Rotation speed (1/min)	1435/1722
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 vertical shaft (N)	905
Moment of inertia (kgm²)	0,0062

Influencing factors

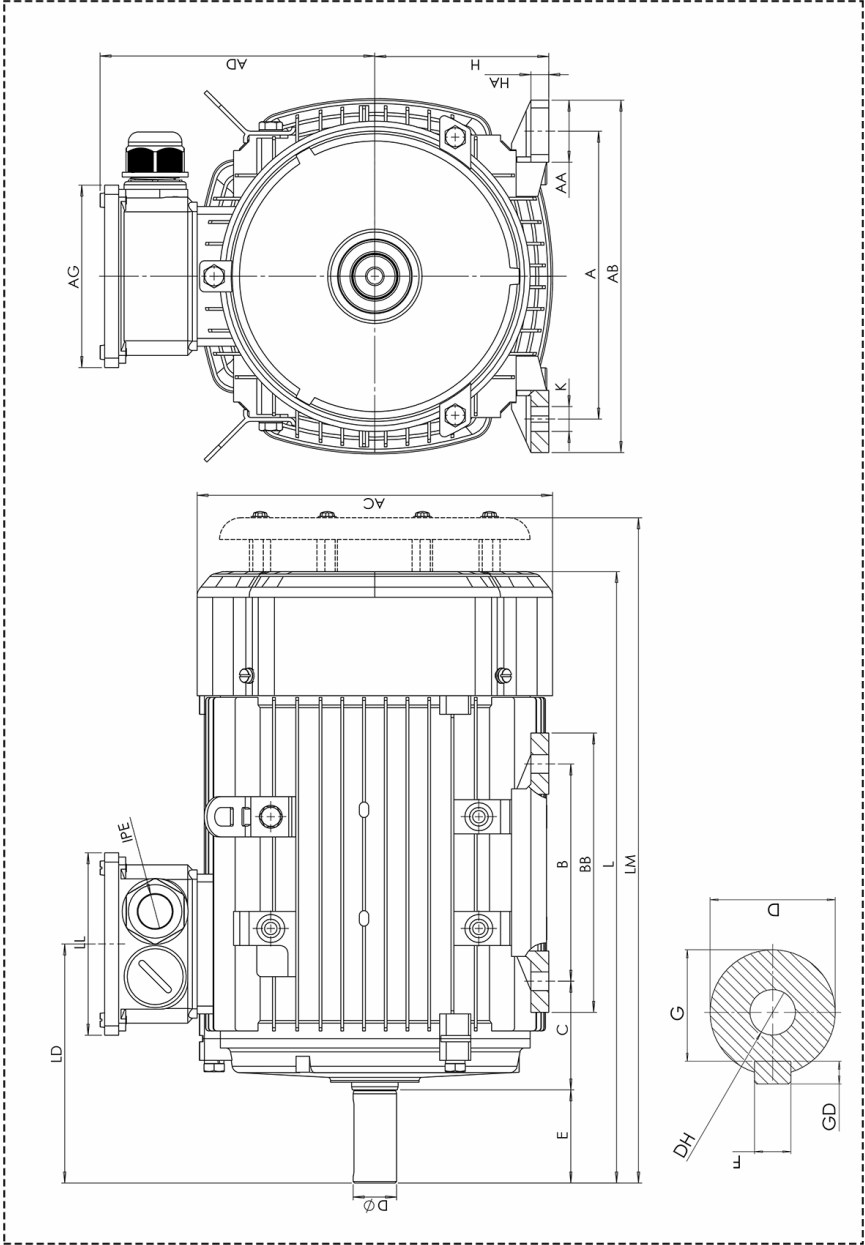
Duty	S1
Ambient temperature (°C)	-20 up to +40
Height of location (m)	1000

Technical changes and errors reserved.

28.02.2020

Drawings

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LM	IPE/KK	K	DH	ED	G	LL	L	AG	GD	EB	F	HA	H	E	D	C	BB	B	AD	AC	AB	AA	A
423	M25x1,5	12x16	M10x22	5,00	24,00	109,00	393,00	109,00	7	50	8	11	100	60	28	63	172	140	156	198	196	40	160