

Three-Phase-Asynchronous-Motor ACM 250 M 2/PHE

IE3AC25M2000

General data

Type of motor	3~
Type designation	ACM
Frame size	250
Mounting	B3
Frame execution	M
Frame material	Cast iron
Insulation class	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	413,00
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)	55,00
Power 1 60Hz (kW)	66,00
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	2
Efficiency 100% 50Hz (%)	94,3
Efficiency 75% 50Hz (%)	94,3
Efficiency 50% 50Hz (%)	92,4
Efficiency 100% 60Hz (%)	94,1
Efficiency 75% 60Hz (%)	94,3
Efficiency 50% 60Hz (%)	92,4
Power factor	0,9
Starting current (Ia/In)	7,6
Starting torque (Ma/Mn)	2,2
Breakdown torque (Mk/Mn)	2,3
Current 50Hz (A)	93,54/54,22
Current 60Hz (A)	97,81/56,59
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Motor characteristics

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 (mm)	60 x 140
Shaft material	C45
Specification NDE	Plastic fan

Mechanical data

Torque (Nm)	176,85/176,85
Rotation speed (1/min)	2970/3564
Bearing DE	6314.ZZ.C3
Bearing NDE	6314.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	fixed bearing
Bearing lifetime (h)	20000
allow. Radial load (X/2) (N)	4837
allow. Radial load (X0) (N)	5350
allow. Radial load (Xmax) (N)	4325
allow. Axial load B3,B5,B35,B14,B34 (N)	4175
allow. Axial load V1,V3,V19,V18 (N)	3350
Moment of inertia (kgm ²)	0,33

Influencing factors

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

Additional options

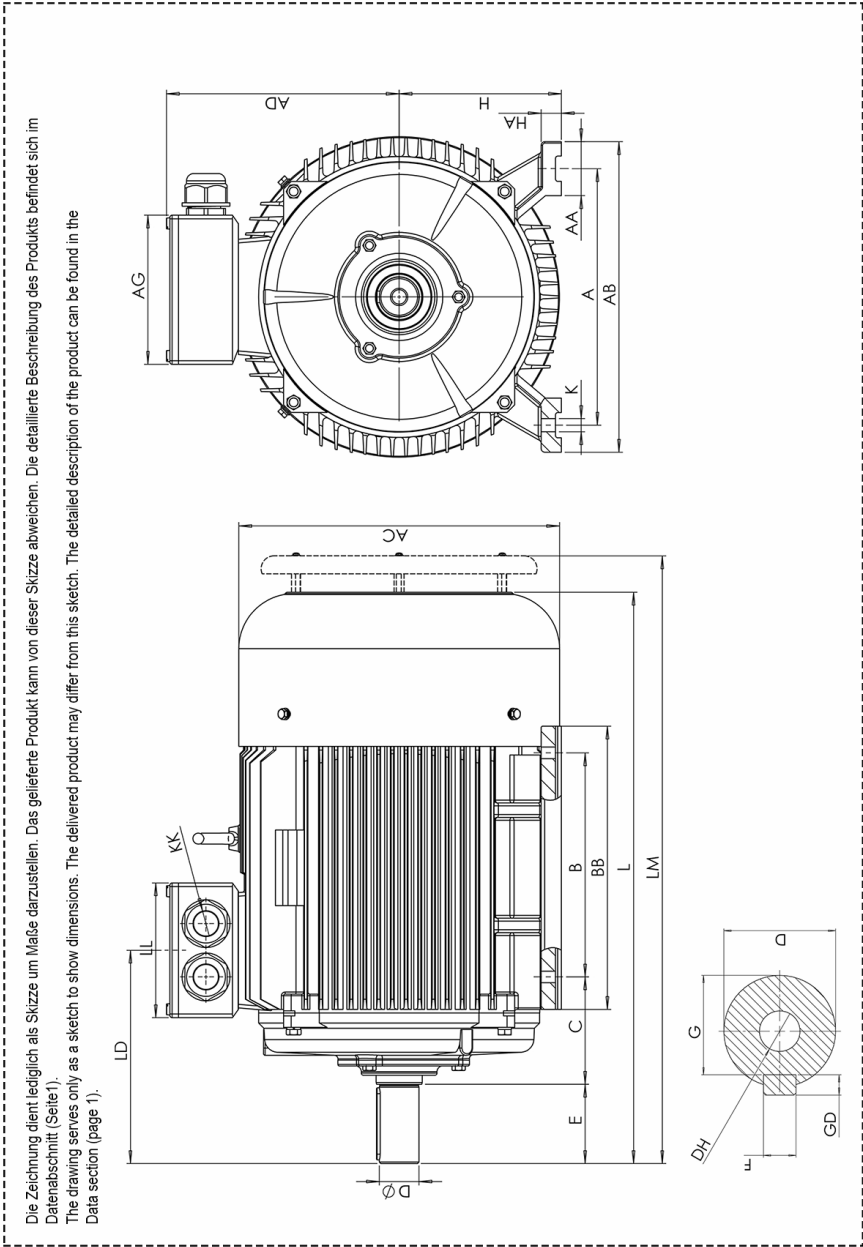
Protection winding	PTC 150°C
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Technical changes and errors reserved.

22.07.2021

Drawings

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IPE/KK	DH	K	ED	G	LL	LD	L	AG	GD	EB	F	HA	H	E	D	C	BB	B	AD	AC	AB	AA	A
M63x1,5	M20x42	24	7,50	53,00	218,00	348,00	900,00	248,00	11	125	18	30	250	140	60	168	445	349	358	485	484	80	406

LM
965