

## THREE-PHASE-ASYNCHRONOUS-MOTOR ASA 160 M 4

IE3UM16M4200

### General data

Type of motor	3~ explosion proof
Type designation	ASA
Frame size	160
Mounting	B3
Frame execution	M
Frame material	Grauguß
Insulationclass	F
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	148
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to	IEC 60034 -1, EN 60079-0/-1
noise level	IEC 60034-9

### Influential factors

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

### Electrical specification

Power 1 50Hz (kW)	11
Power 1 60Hz (kW)	12.65
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460
Voltage/Frequency tolerance (not valid for range voltage)	+/-5%
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	88,7
Efficiency 75% 50Hz (%)	91,5
Efficiency 50% 50Hz (%)	90,7
Efficiency 100% 60Hz (%)	88,7
Efficiency 75% 60Hz (%)	91,5
Efficiency 50% 60Hz (%)	90,7
Power factor	0,95
Starting current factor	6,3
Starting torque factor	2,2
Tilting moment factor	2,4
Rated current 50Hz (A)	18,19/10,54
Rated current 60Hz (A)	18,37
Eff.Cl.50Hz	IE3

### Electrical specification

Eff.Cl.60Hz	IE3
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### Mechanical data

Torque (Nm)	71,95/68,95
Rotation speed (1/min)	1460/1752
Bearing DE	
Bearing NDE	
Mounting of bearing DE	fixed bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000
allow. Radial load (X/2)	2900
allow. Radial load (X0)	3275
allow. Radial load (Xmax)	2525
allow. Axial load B3,B5,B35,B14,B34	2850
allow. Axial load V1,V3,V19,V18	2770
Moment of inertia	0,073755

### Motor properties

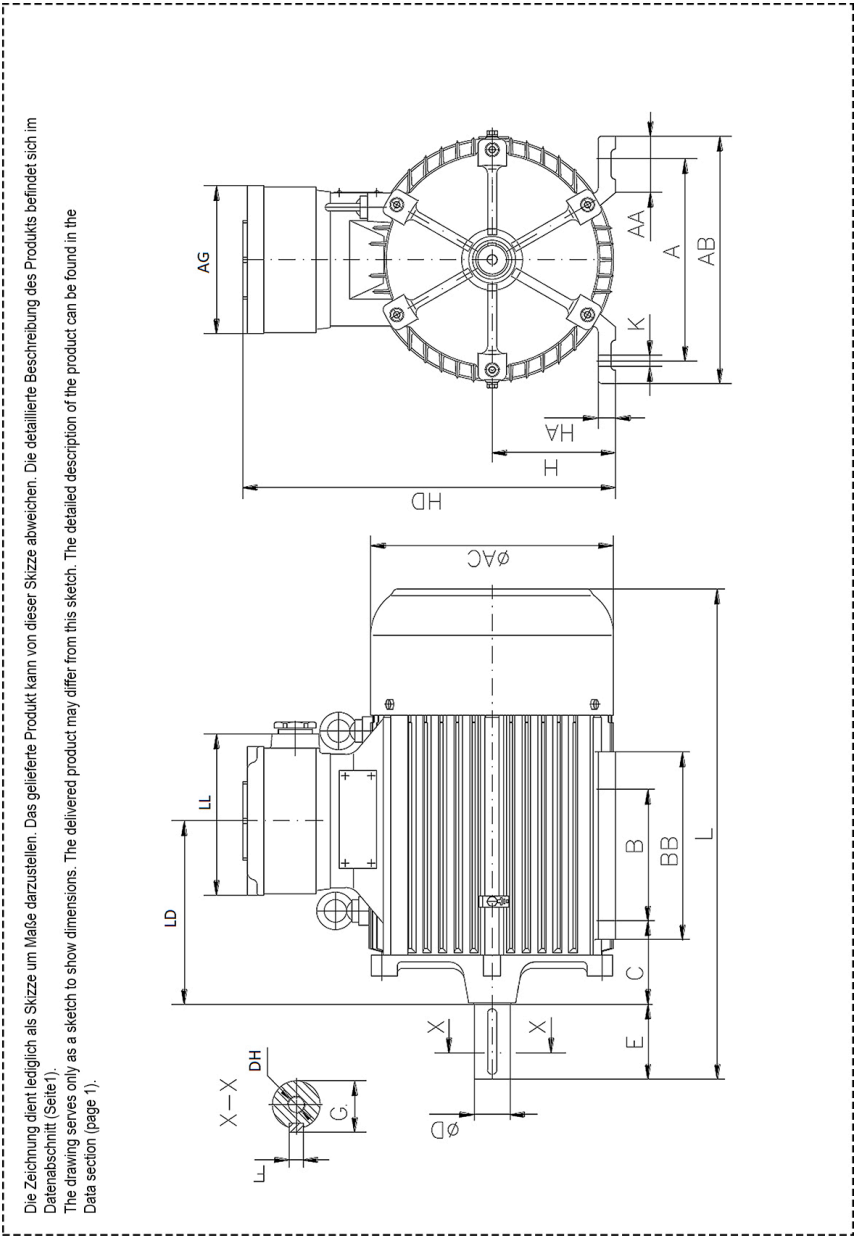
Color	RAL7030
Paint surface	matt
Protection class	IP55
Cable gland size (cable connection)	M40x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Atex
Shaft end	42 x 110
Shaft material	C45
Specification NDE	Metal fan

### Additional option

Protection winding	PTC 130°C
Atex	II 2G Ex de IIC T4 Gb

# Dimension drawings

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<b>A</b>	<b>AA</b>	<b>AB</b>	<b>AC</b>	<b>AG</b>	<b>B</b>	<b>BB</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>H</b>	<b>HD</b>	<b>HA</b>	<b>K</b>	<b>L</b>	<b>LD</b>	<b>LL</b>	<b>F</b>	<b>G</b>	<b>DH</b>
254	80	320	317	195	210	300	108	42	110	160	471	20	14,5	660	245	210	12	45	M16