

THREE-PHASE-ASYNCHRONOUS-MOTOR AWM 315 LA 4 /PHE

IE3OM31LA456

General data

Type of motor	3~
Type designation	AWM
Frame size	315
Mounting	B3
Frame execution	L
Frame material	Grauguß
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	1160
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

Influential factors

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

Electrical specification

Power 1 50Hz (kW)	160
Power 1 60Hz (kW)	160
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/795
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	96,1
Efficiency 75% 50Hz (%)	96,2
Efficiency 50% 50Hz (%)	93,2
Efficiency 100% 60Hz (%)	96,2
Power factor	0,86
Starting current factor	7,9
Starting torque factor	3
Tilting moment factor	4
Rated current 50Hz (A)	279,42/161,99
Rated current 60Hz (A)	242,74/140,79
Eff.Cl.50Hz	IE3
Eff.Cl.60Hz	IE3

Mechanical data

Torque (Nm)	1028,96/857,60
Rotation speed (1/min)	1485/1782
Bearing DE	6319.C3
Bearing NDE	6319.C3.VL0241
Mounting of bearing DE	fixed bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000
allow. Radial load (X/2)	15500
allow. Radial load (X0)	22000
allow. Radial load (Xmax)	9000
allow. Axial load B3,B5,B35,B14,B34	7875
allow. Axial load V1,V3,V19,V18	4430
Moment of inertia	5,2356

Motor properties

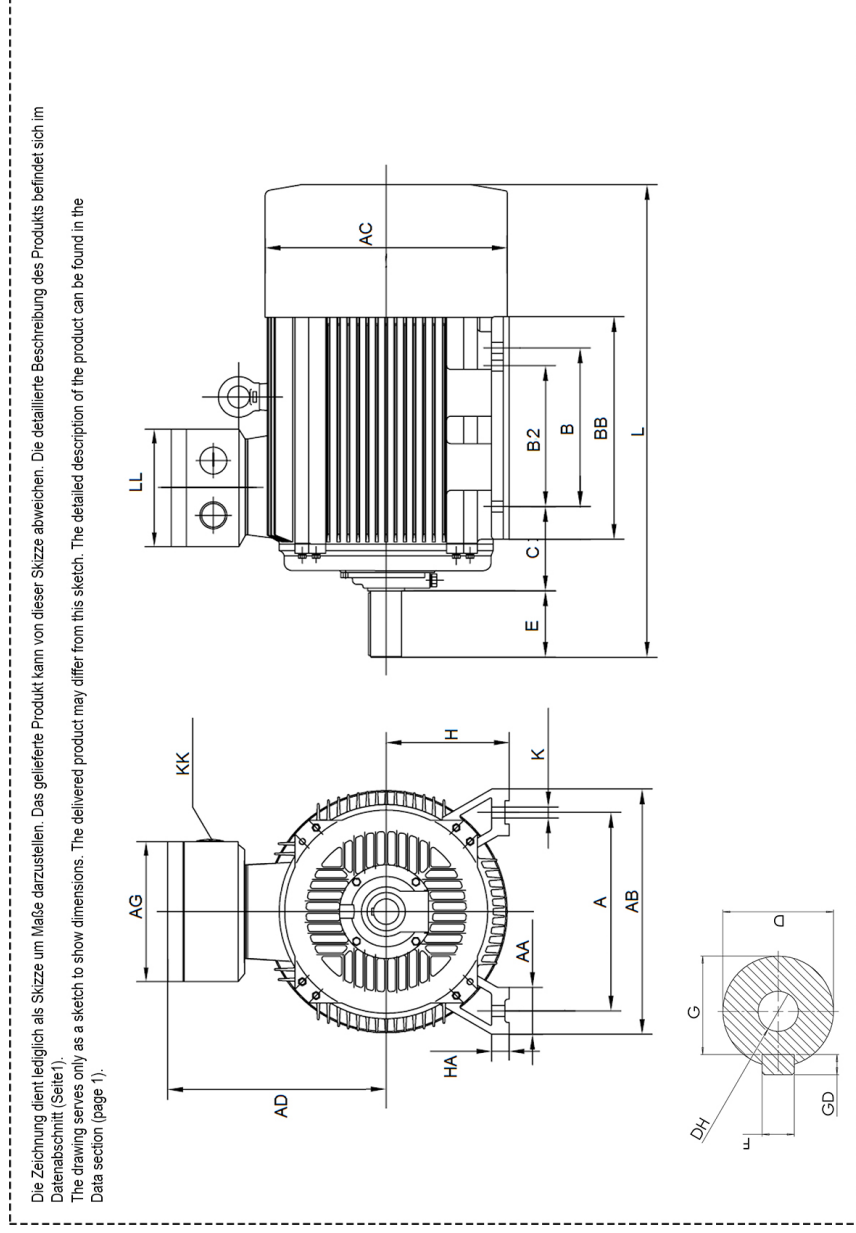
Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	2xM63x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Standard
Shaft end	80 x 170
Shaft material	C45
Specification NDE	Plastic fan

Additional option

Protection winding	PTC 150°C
UL E480221	✓
CC-no.	CC325B
Regreasing device	AS+BS
Condensate draining hole	✓
Condensate draining hole sealing screw	✓
Oil sealed	✓

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Three-Phase-Asynchronous-
Motor AWM 315 LA 4 /PHE
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