

SINGLE-PHASE MOTOR ABS 90 L 2 /HE-HT

IE2AB09L2100

General data

Type of motor	1~
Type designation	ABS
Frame size	90
Mounting	B3
Frame execution	L
Frame material	Aluminium
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the back side NDE
Weight (kg)	20.5
Rotation Direction	Clockwise
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)	2.2
Frequency (Hz)	50
Voltage 50Hz (V)	230
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Poles	2
Efficiency 100% 50Hz (%)	83,2
Power factor	0,98
Starting current factor	6,0
Starting torque factor	2,3
Tilting moment factor	2,1
Rated current 50Hz (A)	11,7
Eff.Cl.50Hz	IE2

Mechanical data

Torque (Nm)	7,29
Rotation speed (1/min)	2880
Bearing DE	6205.ZZ.C3
Bearing NDE	6203.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000

Mechanical data

Moment of inertia	0,00964
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Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	
Cable gland type	Standard
Shaft end	24 x 50
Shaft material	C45
Specification NDE	Plastic fan

Motor properties Single-phase

Capacitor	AK+BK
S.C. Capacity	300 myF/300 V
O.C. Capacity	60 myF/450 V
run-up switching	centrifugal switch

Dimension drawings

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A	AB	AG	B	C	D	E	H	HD	K	L	LB	LL	F	G	DH
140	180	174	125	56	24	50	90	245	10	373	323	147	8	20	M8x19