

SINGLE-PHASE MOTOR ABS 90 L 4 /HE-HT

IE2AB09L2202

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)	1.5
Frequency (Hz)	50
Voltage 50Hz (V)	230
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Poles	4
Efficiency 100% 50Hz (%)	82,8
Power factor	0,95
Starting current factor	5,5
Starting torque factor	2,5
Tilting moment factor	2,0
Rated current 50Hz (A)	8,29
Eff.Cl.50Hz	IE2

Mechanical data

Torque (Nm)	10,23
Rotation speed (1/min)	1400
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

allow. Radial load (X/2)	787
allow. Radial load (X0)	875
allow. Radial load (Xmax)	700
allow. Axial load B3,B5,B35,B14,B34	675
allow. Axial load V1,V3,V19,V18	635
Moment of inertia	0,0148

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	200 myF/250 V
O.C. Capacity	40 myF/450 V
run-up switching	centrifugal switch

Dimension drawings

Single-phase motor ABS 90 L 4 /HE-HT

IE2AB09L2202



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	395	345	147	8	20	M8x19