

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

IE2AB09L2200

General data

Type of motor	1~
Type designation	FBS
Frame size	90
Mounting	B14a
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	6204.ZZ.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	loose bearing
Bearing lifetime	20000

Mechanical data

Moment of inertia	0,0148
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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
Flange	140

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

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AC	AD	AG	D	E	L	LB	LL	M	N	P	S	T	F	G	DH
185	155	174	24	50	395	345	147	115	95	140	M8	3,5	8	20	M8x19