



AC Three-phase Motors - IE4/IE3/IE2/IE1

STANDARD EFFICIENCY MOTORS - IE1

- Reliability and efficiency in a well-designed robust package
- Extensive customization options ensure motors match application needs



TECHNICAL DATA

Motor Type

AM 90S BA2 - 1.8 kW - 2 poles - 400V - 50Hz

PERFORMANCE DATA

Type	AM 90S BA
Poles	2
kW	1.8
HP	2.5
rpm	2805
Mn Nm	6.1
η 50%	74.9
η 75%	78.0
η 100%	78.2
cos Phi	0.80
I _N 400V	4.2
I _N 380-420V	4.3
I _A /I _N	4.5
M _A /M _N	2.6

M_S/M_N	2.4
M_K/M_N	2.5
$J \cdot 10^{-3} \text{ kgm}^2$	1.23
kg	12.7

Mechanical Data

Design	ALUMINIUM
Degree of protection	IP 55
Bearings DE/NDE	6205/2Z
Lubrication grease	low & high temperature grease
Regreasing device horizontal	permanent lubrication
Regreasing device vertical	permanent lubrication
Cooling	IC 411
Vibration Level	A (normal)
Noise Lpa db(A)	62

Electrical Data

Voltage	400V - 50Hz
Connection	?/Y 230/400V
Duty type	S1
Thermal protection	na
Insulation class	F
Direction of rotation	bidirectional
Ambient temperature	-20°C / +40 °C
Altitude	1000 m.a.s.l.