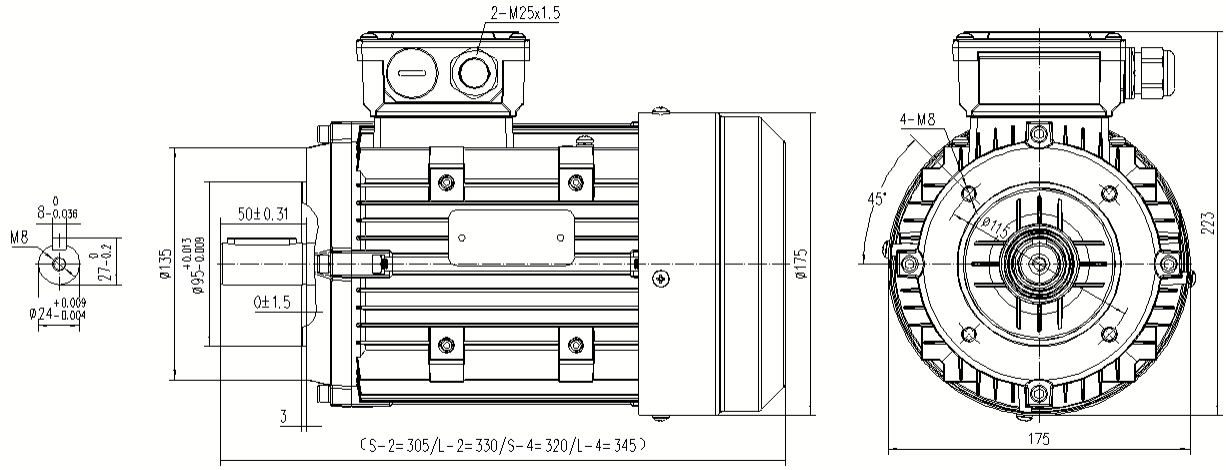
Data sheet for three-phase squirrel-cage motor

Type NAH90S-4-N IE3 | **Cod.** | **Mounting position**

IM	B14
IM	3601



Electrical data			
Rated motor power	1.1		kW
Rated motor speed	1440		min^{-1} 50Hz
	1728		min^{-1} 60Hz
Rated motor frequency	50		Hz
Rated motor voltage(+/-10%)	230		VΔ/50Hz
	400		VY/50Hz
	280		VΔ/60Hz
	480		VY/60Hz
Rated motor torque	7.27		Nm (Mn)
Rated motor current	4.35	VΔ/50Hz	A (In)
	2.50	VY/50Hz	A (In)
Starting motor current	6.3		xIn
Starting motor torque	2.7		xMn
Breakdown motor torque	2.5		xMn
Starting			D.O.L.
Efficiency class	IE3		
Efficiency	50Hz	60Hz	
	84.3	86.5	100% load
	85.2	87.5	75% load
	83.6	85.5	50% load
Power factor cosφ	0.74	0.74	100% load

General data		
Frame size	90	
Mounting	B14	
Weight	16	kg
Casing material	Aluminum	
Protection	IP	55
Insulation class/Temperature rise	F	
Tropicalization	Yes	
Vibration class	A	
Duty	S1	
Direction of rotation	Bidirectional	
Method of cooling	IC	411
Cable entry	2-M25x1,5	
Standards	IEC/DIN/ISO/VDE/EN	
Execute at Standard	IEC 60034-1	
Feet removable	Yes	
Paintwork	7030	C2 standard
Thermal protections		

Site conditions	
Ambient temperature	from -20°C to +40°C
Altitude above sea level	1000 m

Mechanical data						
Noise level	LpA	59	dB(A)	Bearing DE side	6205-2RZ ZV3	
	LwA	64	dB(A)	Bearing NDE side	6205-2RZ ZV3	
Moment of inertia	0.00312		kgm^2	Average bearing lifetime	40000	h
Bearings type			cgjf	Relubrication interval L1 DE bearing	life	h
Lubricants for bearings	See installation and maintenance manual			Relubrication interval L1 NDE bearing	life	h
				Compensation ring	DE SIDE	standard