

TECHNICAL DATASHEET

Asynchronous Motor 4A3 90L-4

Customer:	
Ref:	
Order:	
Motor:	
Serial nr:	
Date:	2024-12-16

Nameplate Data:

Type:

Code:

121145

Type: 4A3 90L-4					
kW	Hz	V	A	Rpm	Cos
1,5	50	230D	5,7	1440	0,77
1,5	50	400Y	3,3	1440	0,77
1,725	60	460Y	3,3	1728	0,77
Eff.(100%) 60Hz	Duty	IE-class S1	Amb.temp.	IP rating	Iso.class
85,4	S1	IE3	-20° - +40°C	IP55	F
Nominal data S1-duty, Amb.temp 40°C:					
Voltage - V:		400	Mounting form:		B14B
Frequency - Hz:		50	Bearing DE:		6205 2Z C3
Power - kW:		1,5	Bearing NDE:		6205 2Z C3
Full load speed - rpm:		1440	Weight - kg:		19
Full load current - A:		3,3	Heater:		No
Full load power factor - Cos:		0,77	Th.Protection:		PTC mounted
Locked rotor current - A:		23,0	Kgm ² :		0,00414
Locked rotor factor - A _{st} /A _n :		7,0	Sound press.-db(A):		52
			Cooling:		IC411
Efficiency 100% load - %:		85,4	Over load/speed test:		
Efficiency 75% load - %:		86,2	H-pot test voltage:		2000
Efficiency 50% load - %:		84,8	Temp rise in stator:		F
Full load torque - Nm:		9,9	Over load 160% - 15 sec		
Locked rotor torque - Nm:		22,9	kW:		2,4
Locked rotor torque - Nm _{st} /Nm _n :		2,3	Hz:		50
Max. Pull out torque - Nm:		22,9	V:		400
Max. Pull out torque. - Nm _{st} /Nm _n :		2,3	A:		5,1
Other:			Rpm:		1388
			Over speed 125% - 2 min		
			kW:		1,5
			Hz:		63
			V:		400
			A:		3,1
			Rpm:		1800

The motor is produced in accordance with following harmonized standards:

IEC60034-1, IEC60034-2, IEC60034-5, IEC60034-6, IEC60034-7, IEC60034-8, IEC60034-9

IEC60034-12, IEC60034-14, IEC60034-30-2, IEC60072.

Additional specifications in accordance with:

RINA - GL - LRS - BV - DNV - ABS - KR - RR - CCS - CCC - RMRS.

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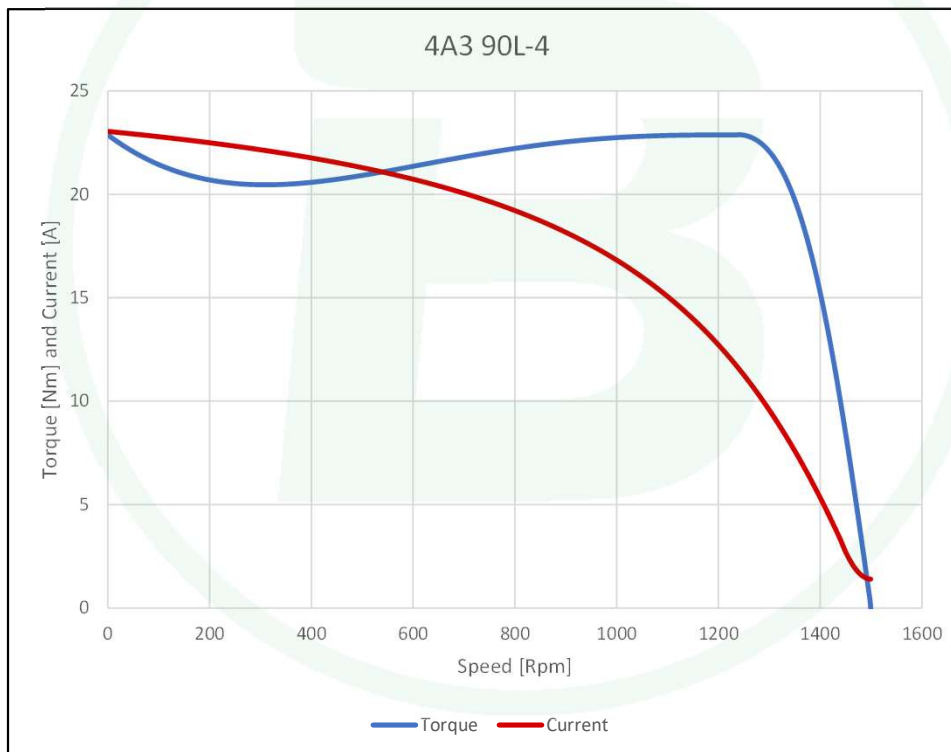
Motor data

Rated output [kW]	1,5	Full load torque [Nm]	9,9
Rated speed [r/min]	1440	Tstart / Tn	2,3
Rated current [A]	3,3	Tmax / Tn	2,3
Istart / In	7	Moment of inertia [kgm ²]	0,00414

Preformance conditions

Voltage [V] at 100%	400	Frequenzy [Hz] at 100%	50
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Starting curves



Please note that the graphs shown above are the result of a computer simulation.

They are not and do not provide any sort of guarantee or certainty regarding the performance of any individual motor in a real life scenario.

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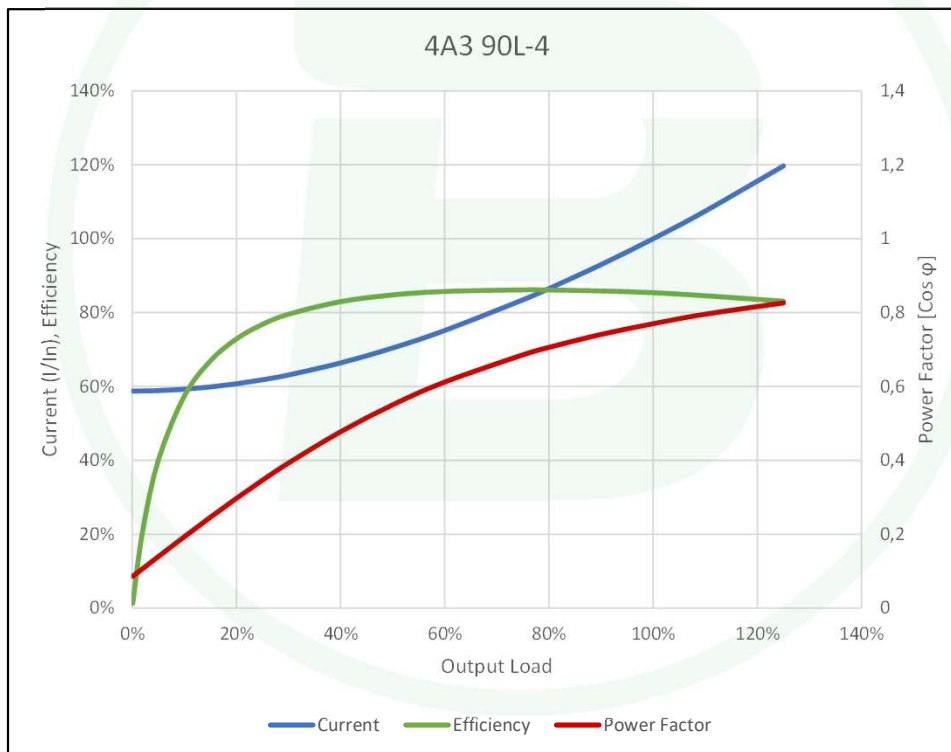
Motor data

Rated output [kW]	1,5	Power factor at P_n [Cos φ]	0,77
Rated speed [r/min]	1440	Efficiency at P_n	85,4
Rated current [A]	3,3		
I _{start} / I _n	7		

Performance conditions

Voltage [V] at 100%	400	Frequenzy [Hz] at 100%	50
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Load curves



Please note that the graphs shown above are the result of a computer simulation.

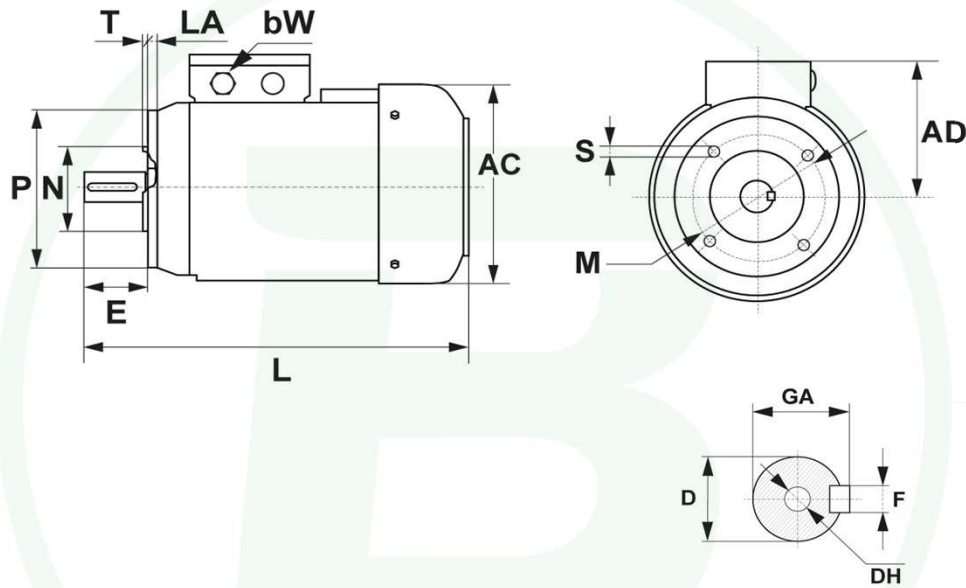
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Flange mounted motor 4A3 90L-4 B14B



Unit: mm

M:	130	HD:	255	E:	50
N:	110	L:	375	D:	24
P:	160	LD:		GA:	27
S:	M8			DB:	M8x19
				F:	8