

TECHNICAL DATASHEET

Asynchronous Motor 3D3 180M-4

Customer:	
Ref:	
Order:	
Motor:	
Serial nr:	
Date:	2024-03-05

Nameplate Data:

Code: 120622

Type: 3D3 180M-4					
kW	Hz	V	A	Rpm	Cos
18,5	50	400D	33,4	1475	0,86
18,5	50	690Y	19,4	1475	0,86
22,2	60	460D	35,0	1770	0,86
Eff.(100%) 50Hz	Duty	IE-class	Amb.temp.	IP rating	Iso.class
93,0	S1	IE3	-20° - +40°C	IP55	F/B
Nominal data S1-duty, Amb.temp 40°C:					
Voltage - V:		400	Mounting form:		B3
Frequency - Hz:		50	Bearing DE:		6311 C3
Power - kW:		18,5	Bearing NDE:		6311 C3
Full load speed - rpm:		1475	Weight - kg:		203
Full load current - A:		33,4	Heater:		No
Full load power factor - Cos:		0,86	Th.Protection:		PTC mounted
Locked rotor current - A:		260	Kgm ² :		0,1811
Locked rotor factor - A _{st} /A _n :		7,8	Sound press.-db(A):		76
			Cooling:		IC411
Efficiency 100% load - %:		93,0	Over load/speed test:		
Efficiency 75% load - %:		93,2			
Efficiency 50% load - %:		92,6	H-pot test voltage:		2000
Full load torque - Nm:		120	Temp rise in stator:		B
Locked rotor torque - Nm:		240	Over load 160% - 15 sec		
Locked rotor torque - Nm _{st} /Nm _n :		2,0	kW:		29,6
Max. Pull out torque - Nm:		275	Hz:		50
Max. Pull out torque. - Nm _{st} /Nm _n :		2,3	V:		400
Other:			A:		-
			Rpm:		-
			Over speed 125% - 2 min		
			kW:		18,5
			Hz:		63
			V:		400
			A:		221
			Rpm:		1844

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]	18,5	Full load torque [Nm]	120
Rated speed [r/min]	1475	Tstart / Tn	2
Rated current [A]	33,4	Tmax / Tn	2,3
Istart / In	7,8	Moment of inertia [kgm ²]	0,1811

Test 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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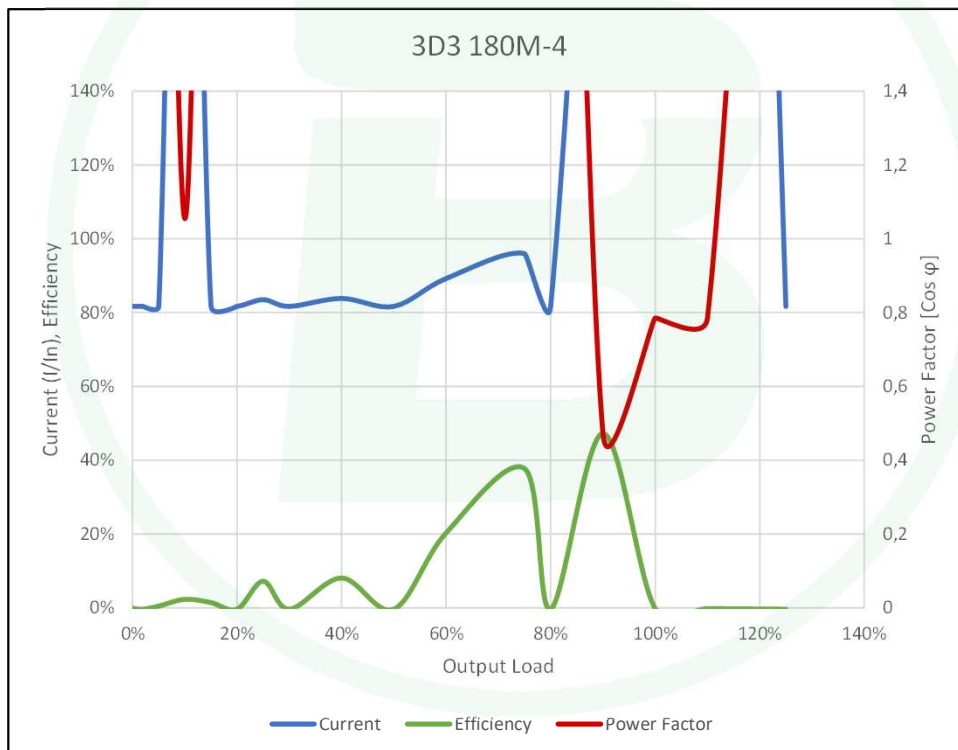
Motor data

Rated output [kW]	18,5	Power factor at P_n [Cos φ]	0,86
Rated speed [r/min]	1475	Efficiency at P_n	93
Rated current [A]	33,4		
I _{start} / I _n	7,8		

Test 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.

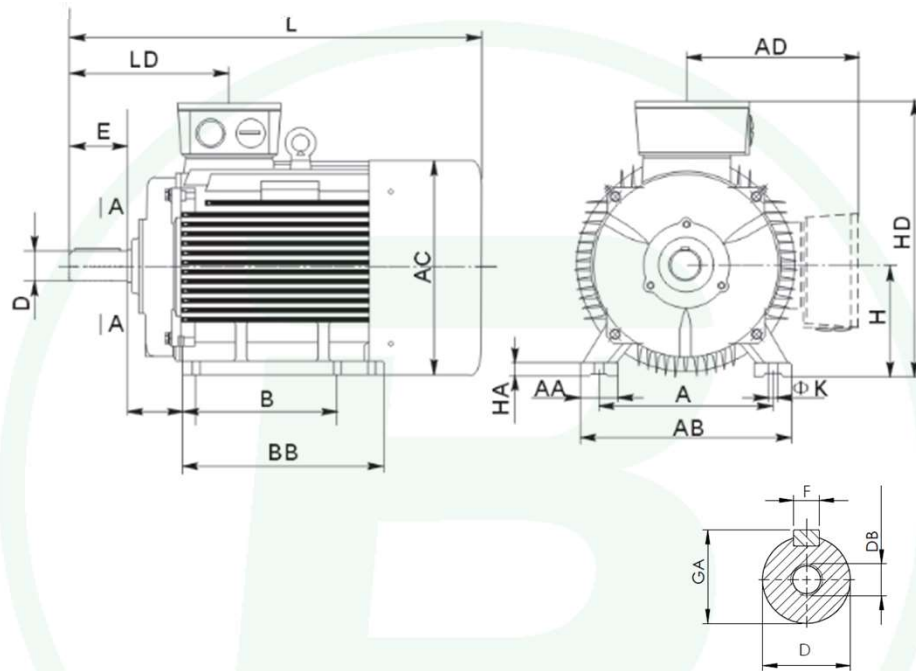
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Foot mounted motor 3D3 180M-4 B3



Unit: mm

A:	279	HD:	458	E:	110
B:	241	C:	121	D:	48
AB:	349	H:	180	GA:	51,5
AC:	355	K:	14,5	DB:	M16x36
AD:	278	L:	722	F:	14
LD:	271				