

TECHNICAL DATASHEET

Asynchronous Motor 3D3 180L-4

Customer:	
Ref:	
Order:	
Motor:	
Serial nr:	
Date:	2025-08-14

Nameplate Data:

Type:

Code:

120623

Type: 3D3 180L-4					
kW	Hz	V	A	Rpm	Cos
22,0	50	400D	39,6	1475	0,86
22,0	50	690Y	22,9	1475	0,86
25,3	60	460D	40	1770	0,86
Eff.(100%) 50Hz	Duty	IE-class S1	Amb.temp.	IP rating	Iso.class
93,3	S1	IE3	-20° - +40°C	IP55	F
Data duty S1, Amb.temp 40°C:					
Voltage - V:		400	Mounting form:		B5
Frequency - Hz:		50	Bearing DE:		6311 C3
Power - kW:		22,0	Bearing NDE:		6311 C3
Full load speed - rpm:		1475	Weight - kg:		227
Full load current - A:		39,6	Heater:		No
Full load power factor - Cos:		0,86	Th.Protection:		PTC mounted
Locked rotor current - A:		309	Kgm²:		0,2242
Locked rotor factor - A _{st} /A _n :		7,8	Sound press.-db(A):		76
			Cooling:		IC411
Efficiency 100% load - %:		93,3	Over load/speed test:		
Efficiency 75% load - %:		93,5			
Efficiency 50% load - %:		93,0	H-pot test voltage:		2000
Full load torque - Nm:		142	Temp rise in stator:		F
Locked rotor torque - Nm:		285	Over load 160% - 15 sec		
Locked rotor torque - Nm _{st} /Nm _n :		2,0			
Max. Pull out torque - Nm:		399	kW:		35
Max. Pull out torque - Nm _{st} /Nm _n :		2,8	Hz:		50
Other:			V:		400
			A:		62,0
			Rpm:		1457
			Over speed 125% - 2 min		
			kW:		22,0
			Hz:		63
			V:		400
			A:		38,2
			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]	22,0	Full load torque [Nm]	142
Rated speed [r/min]	1475	Tstart / Tn	2
Rated current [A]	39,6	Tmax / Tn	2,8
Istart / In	7,8	Moment of inertia [kgm ²]	0,2242

Performance 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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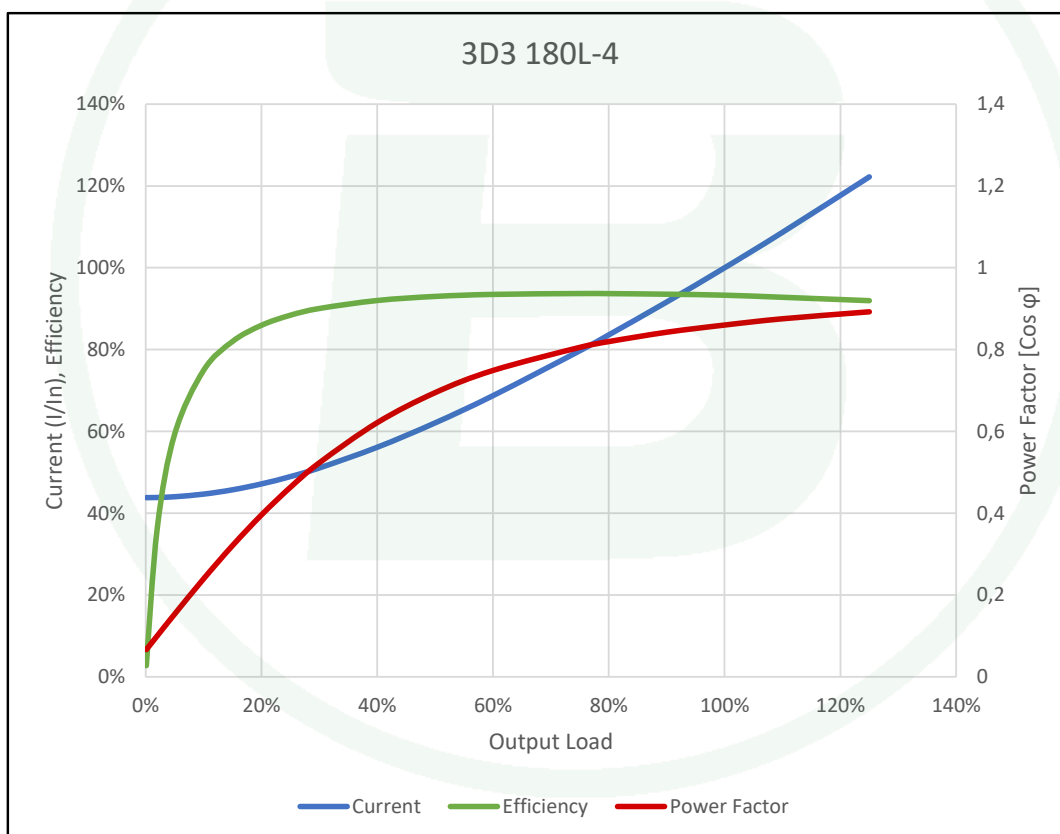
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Motor:	
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Motor data

Rated output [kW]	22,0	Power factor at P_n [Cos φ]	0,86
Rated speed [r/min]	1475	Efficiency at P_n	93,3
Rated current [A]	39,6		
I _{start} / I _n	7,8		
Performance conditions			
Voltage [V] at 100%	400	Frequency [Hz] at 100%	50

Load curves



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

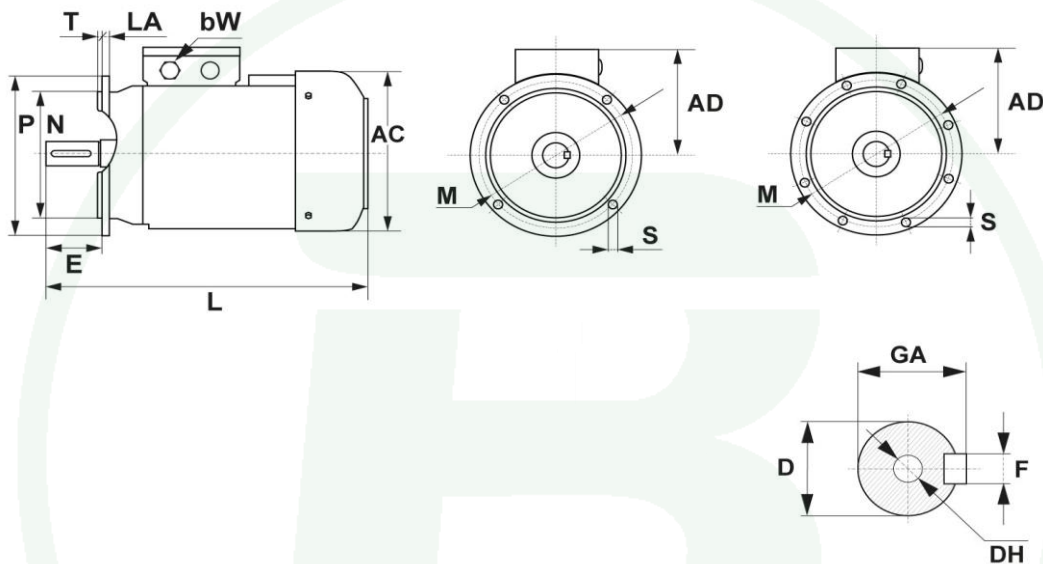
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Flange mounted motor 3D3 180L-4 B5



Unit: mm

M:	300	HD:	458	E:	110
N:	250	L:	772	D:	48
P:	350	LD:		GA:	51,5
S:	18,5			DB:	M16x36
Sp:	4			F:	14

AD: