

ALL INDUSTRIES

Blower Quick Start

version 01.22

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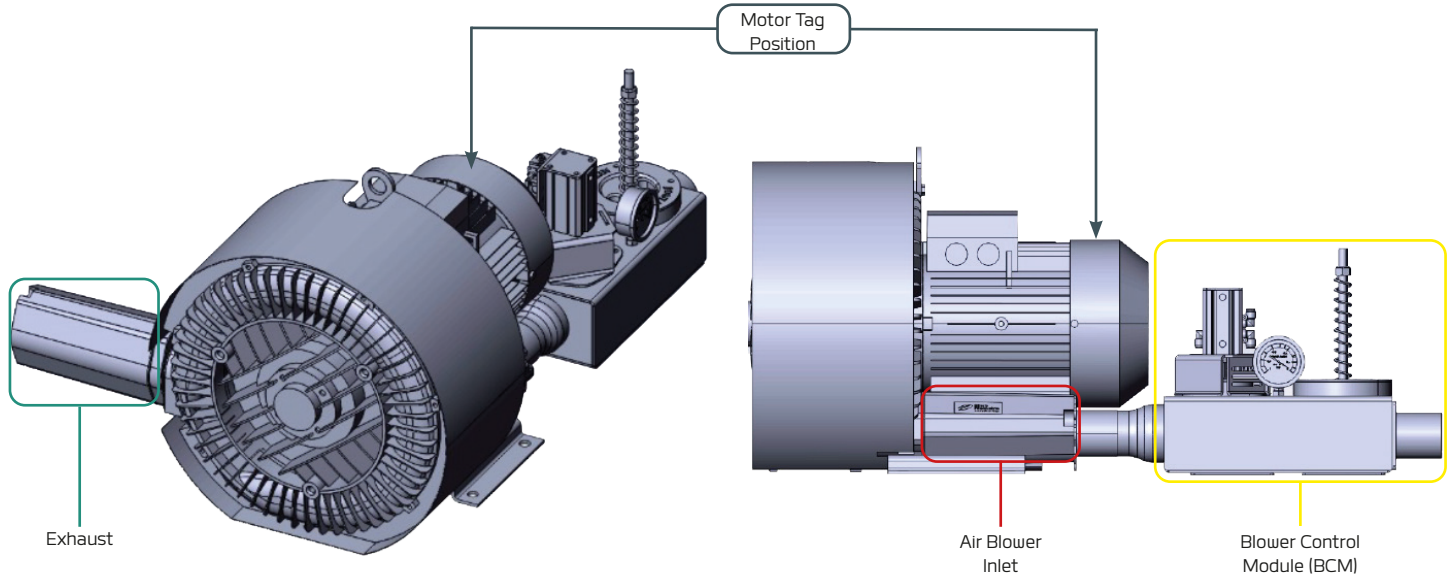
!! CAUTION !!

- ✓ Do not install, remove, or rewire this equipment with power applied.
- ✓ Failure to heed this warning may result in fire, explosion, or serious injury.
- ✓ All installation must be carried out by appropriately trained personnel.
- ✓ For full installation and maintenance instructions refer these instructions or consult us, if in doubt.
- ✓ Do not disconnect any of the motor leads from the motor unless power is removed or the motor is disabled.
- ✓ Opening any one motor lead may destroy the motor.

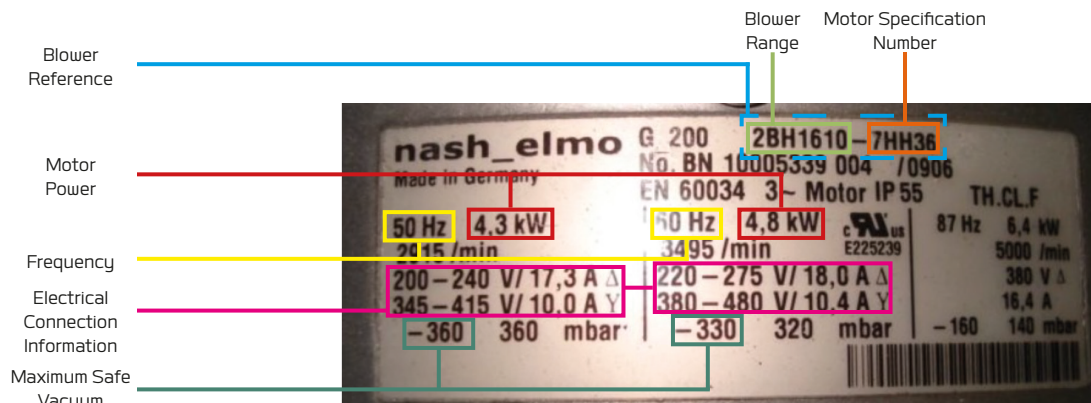
Identify the information on the blower

Motor Tag

Find the Motor Tag



Information on the Motor Tag



Blower Install IE1

Connecting the Motor - 50Hz

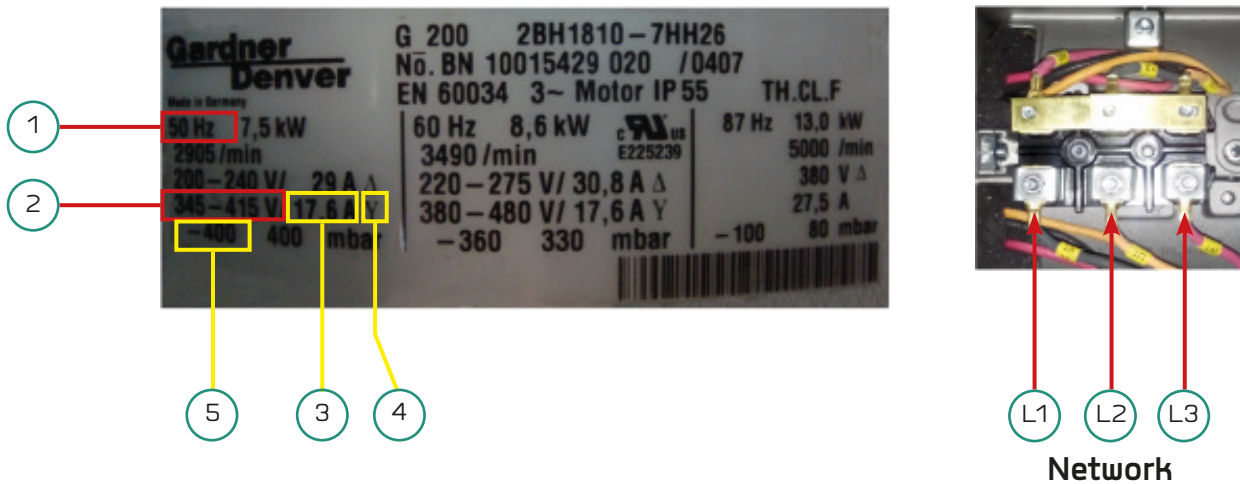
Read the Motor Tag

1. Spot the frequency that matches the network voltage.
2. Spot the voltage range in which the network voltage fits in. Be careful which one you are using as this could burn the motor.

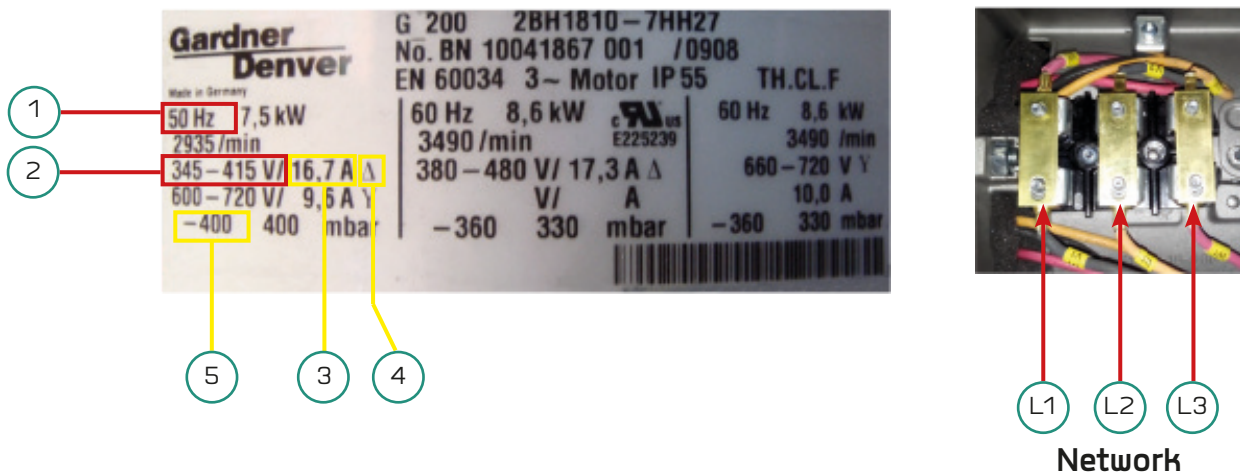
This gives:

3. The nominal current (with a direct start up the inrush current can be up to 15 times the nominal current for 6 to 8 second)
4. The wiring to use on the motor ("Delta" or "Wye"/"Star")
5. The maximum vacuum.

Example: with a 400V at 50Hz network (Generic Tag Pictures)



The above **7,5kW** motor should be wired in "Wye", as on the picture on the right. The nominal current is **17,6A**, and the maximum vacuum is **-400mbar**.



The above **7,5kW** motor should be wired in "Delta", as on the picture on the right. The nominal current is **16,7A**, and the maximum vacuum is **-400mbar**.

Blower Install IE1

Connecting the Motor - 60Hz

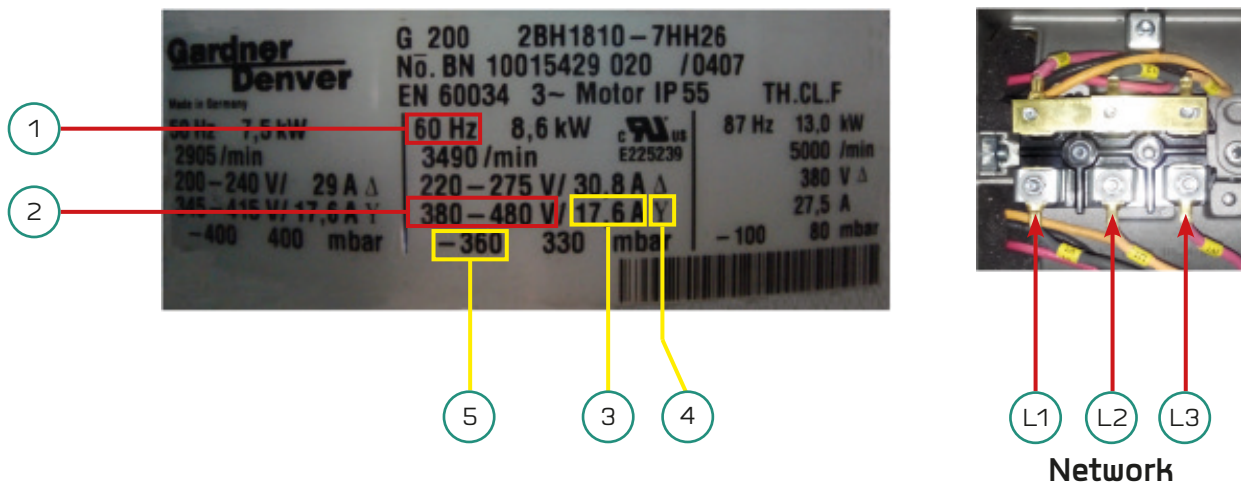
Read the Motor Tag

1. Spot the frequency that matches the network voltage.
2. Spot the voltage range in which the network voltage fits in. Be careful which one you are using as this could burn the motor.

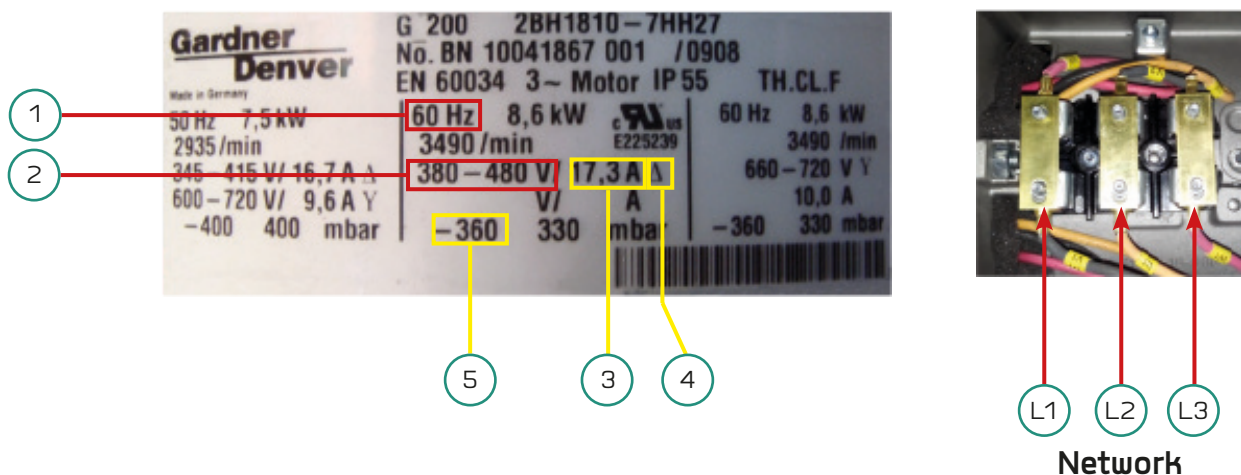
This gives:

3. The nominal current (with a direct start up the inrush current can be up to 15 times the nominal current for 6 to 8 second)
4. The wiring to use on the motor ("Delta" or "Wye"/"Star")
5. The maximum vacuum.

Example: with a 480V at 60Hz network (Generic Tag Pictures)



The above **8.6kW** motor should be wired in "Wye", as on the picture on the right. The nominal current is **17.6A**, and the maximum vacuum is **-360mbar**.



The above **8.6kW** motor should be wired in "Delta", as on the picture on the right. The nominal current is **17.3A**, and the maximum vacuum is **-360mbar**.

Blower Install IE3

Connecting the Motor - IE3

Read the Motor Tag

1. Spot the frequency that matches the network voltage.
2. Spot the voltage range in which the network voltage fits in. Be careful which one you are using as this could burn the motor.

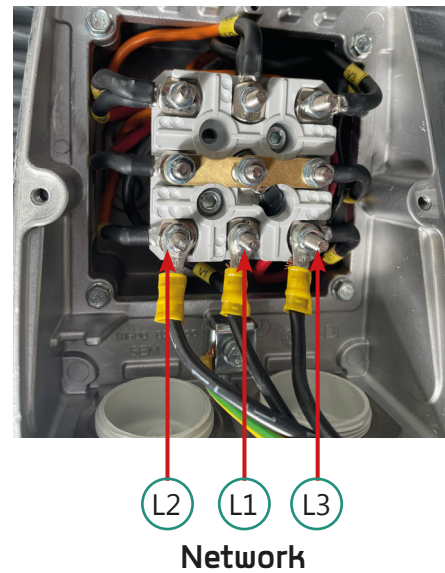
This gives:

3. The nominal current (with a direct start up the inrush current can be up to 15 times the nominal current for 6 to 8 second)
4. The wiring to use on the motor ("Delta" or "Wye"/"Star")
5. The maximum vacuum.

Example: with a 480V at 60Hz network (Generic Tag Pictures)

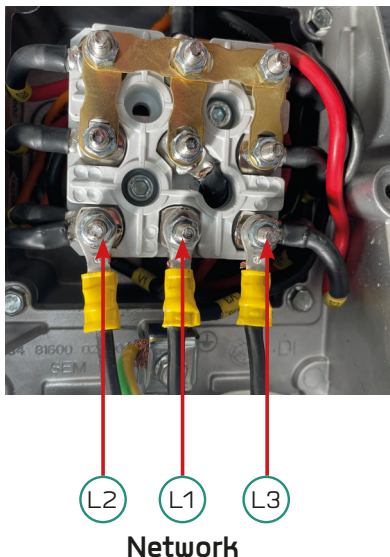
Gardner Denver		G - 8H2N 2BH20780 - 2AAK6 - BA						IEC/EN 60034	
compressor / vacuum pump		No. BN 10415998 004 / 1120						IP 55	
Hz	kW	rpm	V	A	P.F.	Δ p mbar			
50	12.6	2950	190-210	YY	46.6	-530	420		
			380-420	Y	23.3				0.90
			220-240	Δ	40.3				
60	14.5	3550	220-240	YY	46.0	-450	320		
			440-480	Y	23.0				0.90
			330	Δ	39.3				0.90
72	17.4	4250							

Gardner Denver		3 - Motor GDA16321/K62ZV75						1AV3162A	
No. BN 10415998 004 / 1120		IEC/EN 60034 IP 55 1H.CL.F						CC 032A	
Hz	kW	rpm	V	A	P.F.	nom. eff.	CODE		
50	11.0	2955	190-210	YY	42.0	0.87	IE3 91.2%	K	
			380-420	Y	21.0				
			220-240	Δ	36.4				
60	12.6	3555	220-240	YY	40.4	0.89	IE3 91.0%	K	
			440-480	Y	20.2				
			230	Y	34.5				
460	Y	17.2	0.88	NP 91.0%	L				

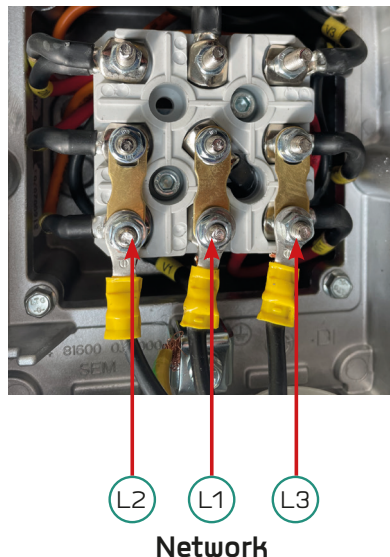


The above **12.6kW** motor should be wired in "Wye", as on the picture on the right. The nominal current is **20.2A**, and the maximum vacuum is **-450mbar**. **Other Wirings depending vacuum blowers:**

Double Wye



Delta





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