

# OMEGA POWER SYSTEM

For us, it's not just business. It's personal.

Compressor Model: **NOBEL CSA 37-08 DV**

GENERAL DATA				
Nominal Input Power	kW		37	
	HP		50,0	
Drive Type	-		Direct 1:1	
Entire Compressor IP Grade	-		IP 20	
Working Pressure	bar		7,5	
	psi		109	
Min. Working Pressure	bar		6	
	psi		87	
Ambient Working Temperature	°C	min. +5	-	max. +45
Main Voltage Supply value	V - ph	575 ±10%	-	n.ph 3~
Auxiliary Voltage Supply value	V - ph	24 ±5%	-	n.ph 1~
Supply Frequency	Hz		60	
WORKING DATA				
Air flow (acc. to ISO 1217 Annex C and Annex E for variable speed compressors)	l/min		5800	
	m <sup>3</sup> /min		5,8	
	c.f.m.		204,8	
Total Absorbed Power at full load (+ dryer)	kW		41,4	+ -
Total Absorbed Power at idle	kW		17,5	
Total Absorbed Current at full load (+ dryer)	A		47	+ -
Specific power absorption	kW/m <sup>3</sup> /min		7,14	
Max final air temperature above ambient	°C		8	
Removed Heat	kJ/h		126540	
Sound Pressure (acc. to Pneurop/Cagi PN2CPTC2)	dB(A)		70	± 3 dB(A)
ELECTRIC MOTOR				
Nominal Motor Power	kW		37	
Size and Construction Form	-	200	-	IM B3B5
Synchronous Speed	min <sup>-1</sup>		3600	
Efficiency class and relative efficiency value	-	15	-	0,937
IP degree of protection and insulation class of the electric motor	-	55	-	class F
Service factor	-		1,15	
VENTILATOR				
Type and number of installed fans	-	Radial	-	n. 1
Fan flow rate	m <sup>3</sup> /h		5000	
Nominal Power	kW		1,1	
IP degree of protection and insulation class of the fan	-	54	-	class F
LUBRICANT				
Type	-		RotEnergyPlus 46 cSt	
Oil quantity	l		25	
Oil carry over	mg/m <sup>3</sup>		2 - 4	
SAFETY DEVICES				
Max oil working temperature	°C		110	
Pre-alarm oil working temperature	°C		105	
Safety valve setting	bar		14	
Protection type from electric motor overload	-		PTC	
DIMENSIONS				
Length	mm		1620	
Width	mm		1024	
Height	mm		1560	
Weight	kg		1030	
Air outlet size	G		1 - 1/2"	
Drawing code	-		-	
Wiring diagram code	-		-	

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		Target pressure			7,5 bar		
ID	% Speed	Air flow			Motor speed [min <sup>-1</sup> ]	Absorbed power [kW]	Specific power [kW/m <sup>3</sup> /min]
		[l/min]	[m <sup>3</sup> /min]	[c.f.m.]			
1	100%	6600	6,60	233,1	3000	41,4	6,3
2	70%	4370	4,37	154,3	2100	30,2	6,9
3	40%	2680	2,68	94,6	1200	18,1	6,8

