

OMEGA POWER SYSTEM

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

Compressor Model: **NOBEL CSA 37-10 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	10		
	psi	138		
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	5400		
	m ³ /min	5,4		
	c.f.m.	190,7		
Total Absorbed Power at full load (+ dryer)	kW	40,1	+	-
Total Absorbed Power at idle	kW	17,5		
Total Absorbed Current at full load (+ dryer)	A	47	+	-
Specific power absorption	kW/m ³ /min	7,43		
Max final air temperature above ambient	°C	8		
Removed Heat	kJ/h	126540		
Sound Pressure (acc. to Pneurop/Cagi PN2CPTC2)	dB(A)	69	± 3 dB(A)	

ELECTRIC MOTOR				
Nominal Motor Power	kW	37		
Size and Construction Form	-	200	-	IM B3B5
Synchronous Speed	min ⁻¹	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 ³ /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 ³	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			9,5 bar		
ID	% Speed	Air flow			Motor speed [min ⁻¹]	Absorbed power [kW]	Specific power [kW/m ³ /min]
		[l/min]	[m ³ /min]	[c.f.m.]			
1	100%	5400	5,40	190,7	4010	40,1	7,4
2	70%	3748	3,75	132,4	2807	29,0	7,7
3	40%	1715	1,72	60,6	1604	17,7	10,3

