

# OMEGA POWER SYSTEM

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

## Compressor Technical Datasheet

Compressor Model: **KELVIN 18,5-13 575** --

GENERAL DATA				
Nominal Input Power	kW	18,5		
	HP	25,0		
Drive Type	-	Belt		
Entire Compressor IP Grade	-	IP 20		
Working Pressure	bar	13		
	psi	189		
Min. Working Pressure	bar	6,5		
	psi	94		
Ambient Working Temperature	°C	min. +2	-	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	2150		
	m <sup>3</sup> /min	2,15		
	c.f.m.	75,9		
Total Absorbed Power at full load ( + dryer)	kW	20,5	+	-
Total Absorbed Power at idle	kW	8		
Total Absorbed Current at full load ( + dryer)	A	25	+	-
Specific power absorption	kW/m <sup>3</sup> /min	8,60		
Max final air temperature above ambient	°C	8		
Removed Heat	kJ/h	63300		
Sound Pressure (acc. to Pneuop/Cagi PN2CPTC2)	dB(A)	71 ± 3 dB(A)		
ELECTRIC MOTOR				
Nominal Motor Power	kW	18,5		
Size and Construction Form	-	160	-	IM B34
Synchronous Speed	min <sup>-1</sup>	3600		
Efficiency class and relative efficiency value	-	IE3	-	0,924
IP degree of protection and insulation class of the electric motor	-	IP 55	-	class F
Service factor	-	1,1		
VENTILATOR				
Type and number of installed fans	-	Radial	-	n. 2
Fan flow rate	m <sup>3</sup> /h	3300		
Nominal Power	kW	0,16		
IP degree of protection and insulation class of the fan	-	IP54	-	class F
LUBRICANT				
Type	-	RotarEcoFluid 46		
Oil quantity	l	7		
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	-	Thermal relay		
DIMENSIONS				
Length	mm	1510		
Width	mm	730		
Height	mm	1085		
Weight	kg	398		
Air outlet size	G	3/4"		
Drawing code	-	DIM004-5		
Wiring diagram code	-	9017426		