



Bitzer K hlmaschinenbau GmbH Sindelfingen

Screw/Scroll Compressor Test Certificate

Compressor model: **HSN8591-160**

SerialNo: **1098100726**

Date: **18.01.2020**

Time: **13:06**

Tested by: **Ramos**

All mentioned data are measured with nitrogen and can not be transferred to refrigerant applications!

Motor winding resistances				Insulation (1000V DC)	
PW	S/D	3P / 9P		1.2.3 S/D - 4.5.6 PW, 3P/9P, S/D	
U1 - U2	U1 - V2	U1 - V2	Ohm: 0,283	Winding1 / Winding2	MOhm:
U1 - V2	V1 - W2	U1 - V2	Ohm: 0,158	Winding1 / Winding3	MOhm:
U1 - W2	W1 - U2	W1 - U2	Ohm: 0,160	Winding2 / Winding3	MOhm:
V1 - U2			Ohm: 0,161	Winding / Thermistor	MOhm: >6
V1 - V2			Ohm: 0,283	Winding / Body	MOhm: >6
V1 - W2			Ohm: 0,161	Body / Thermistor	MOhm: >6
W1 - U2			Ohm: 0,160		
W1 - V2			Ohm: 0,158		
W1 - W2			Ohm: 0,284		
Thermistor			Ohm: 362		

Measured values at 50 Hz			Full load					
Voltage L1/L2	V:	400,00	Full current L1	A:	142,25	Part current L1	A:	71,03
Voltage L1/L3	V:	402,00	Full current L2	A:	147,89	Part current L2	A:	74,28
Voltage L2/L3	V:	399,00	Full current L3	A:	143,28	Part current L3	A:	71,12

Measured values at		Full load	Part load 1	Part load 2	Part load 3
Total power	kW:	83,28	58,10	51,75	37,78
Displacement	m³/h:	445,43	318,67	274,76	118,27
Oil flow	l/min:	55,71	62,61	62,47	47,74
Gas LP	bar(abs):	2,04	2,01	1,95	2,01
Gas HP	bar(abs):	10,32	10,33	10,36	9,87
Bearing chamber	bar(abs):	3,75	3,34	3,33	2,76

Product released after successful test.