Technical Data Sheet

9/6/2016

Model: AE2425Z-FZ3C (AE2425Z-FZ)

Product Description

Type:	Reciprocating
Application:	LBP - Low Back Pressure
Refrigerant:	R-404A
Voltage/Frequency:	220-240V ~ 50Hz
Version:	N/A

Product Specifications

General

Evaporating Temp. Range:	-40°C to -12.2°C (-40°F to 10°F)
Motor Torque:	High Start Torque (HST)
Compressor Cooling:	Fan

Mechanical

Weight:	0
Weight Unit of Measure:	N/A
Displacement (cc):	12.01
Oil Type:	Polyolester
Viscosity (cSt):	32
Oil Charge (cc):	380

Electrical

Voltage Range (50 Hz):	198-253
Voltage Range (60 Hz):	N/A
Locked Rotor Amps (LRA):	18.4
Rated Load Amps (RLA 50 Hz):	2.3
Rated Load Amps (RLA 60 Hz):	0
Max. Continuous Current (MCC in Amps):	4.2
Motor Resistance (Ohm) - Main:	N/A
Motor Resistance (Ohm) - Start:	N/A
Motor Type:	CSR
Overload Type:	N/A
Relay Type:	N/A

Agency Approval

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed, VDE Listed

Performance Data Sheet

AE2425Z-FZ3C

General Information

Model	AE2425Z-FZ3C	**Refrigerant**	R-404A
Test Condition	EN12900	**Performance Test Voltage**	230V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-40	Watts (Capacity)	296	234	172	110
	Watts (Power)	272	281	293	310
	Amps	1.55	1.55	1.53	1.50
-35	Watts (Capacity)	402	329	255	180
	Watts (Power)	311	323	334	350
	Amps	1.70	1.73	1.76	1.77
-30	Watts (Capacity)	530	441	351	259
	Watts (Power)	353	369	384	401
	Amps	1.86	1.93	1.99	2.04
-25	Watts (Capacity)	680	572	461	348
	Watts (Power)	395	419	439	460
	Amps	2.02	2.13	2.23	2.32
-23.3	Watts (Capacity)	737	621	502	381
	Watts (Power)	410	436	459	481
	Amps	2.08	2.20	2.32	2.42
-20	Watts (Capacity)	856	723	588	450
	Watts (Power)	437	470	498	525
	Amps	2.19	2.35	2.49	2.62
-15	Watts (Capacity)	1060	899	734	566
	Watts (Power)	476	522	560	596
	Amps	2.38	2.57	2.75	2.91
-10	Watts (Capacity)	1290	1100	902	700
	Watts (Power)	512	572	623	671
	Amps	2.57	2.80	3.02	3.22

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2640.879	165.7686	1.98175	
C2	89.14949	-10.8848	0.0190949	
C3	-25.13153	16.74622	0.0348719	
C4	1.007323	-0.3239328	0.000174769	
C5	-0.8160037	0.5392212	0.00078316	
C6	-0.02766967	-0.1339865	-0.00005757	
C7	0.003188562	-0.002143233	0	
C8	-0.008597724	0.004959925	0	
C9	-0.0007299888	-0.001738186	0	
C10	-0.0000165621	0.0006245945	0	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature