

# ZS33KAE-TF5

HCFC, R-22, 60 Hz, 3 -Phase, 200/230 V  
High Temp



**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

## Performance

Evaporator Temp. (°F)	45	20
Condensing Temp. (°F)	130	120
Return Gas Temp. (°F)	65	40
Liquid Temp. (°F)	130	120
Capacity (Btu/hr)	49800	32300
Power (W):	4700	3760
Current (Amps):	15.55	13.15
EER (Btu/Wh):	10.60	8.60
Mass Flow (lbs/hr):	791	505
<u>Sound Data @</u>		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2013-04-22	

## Mechanical

Displacment(in <sup>3</sup> /Rev):	4.39
Displacment(ft <sup>3</sup> /hr):	534.12
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	16.94
Mounting Length (in):	7.50
Mounting Width (in):	7.50
Mounting Height (in):	17.17 *
Suction Size (in),Type:	7/8 Stub
Discharge Size (in),Type:	1/2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	34
Net Weight (lbs):	68.0
Internal Free Volume (in <sup>3</sup> ):	193.0
Horse Power:	4.50

\*Overall compressor height on Copeland Brand Product's specified mounting grommets.

## Electrical

LRA-High*(Amp):	114.0
LRA Low* (Amp):	
LRA-Half Winding (Amp):	
MCC (Amps):	24.0
Max Operating Current(Amp):	19.3
RLA, MCC/1.4;use for contactor selection (Amp):	17.1
RLA, MCC/1.56;use for breaker & wire size selection (Amp):	15.4
RPM:	3500
UL File No:	SA-2337
UL File Date:	2003-12-17

\*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

## Capacitors

## Alternate Applications

Refrigerant	Voltage	Phase	Freq (Hz)	Application
R-134a HFC	200/220	3	50	High Temp
R-134a HFC	200/230	3	60	High Temp
R-404A HFC	200/220	3	50	Extended Medium Temp
R-404A HFC	200/230	3	60	Extended Medium Temp
R-404A HFC	200/220	3	50	Medium Temperature
R-404A HFC	200/230	3	60	Medium Temperature
R-507 HFC	200/220	3	50	Medium Temperature
R-507 HFC	200/230	3	60	Medium Temperature
R-507 HFC	200/230	3	60	Extended Medium Temp
R-507 HFC	200/220	3	50	Extended Medium Temp

## Alternate Applications

<u>Refrigerant</u>	<u>Voltage</u>	<u>Phase</u>	<u>Freq (Hz)</u>	<u>Application</u>
R-22 HCFC	200/220	3	50	High Temp
R-407C HFC	200/220	3	50	High Temp
R-407C HFC	200/230	3	60	High Temp
R-407A HFC	200/220	3	50	Extended Medium Temp
R-407A HFC	200/230	3	60	Extended Medium Temp
R-448A HFO	200/220	3	50	Medium Temperature
R-448A HFO	200/230	3	60	Extended Medium Temp
R-448A HFO	200/220	3	50	Extended Medium Temp
R-448A HFO	200/230	3	60	Medium Temperature
R-449A HFO	200/220	3	50	Medium Temperature
R-449A HFO	200/230	3	60	Medium Temperature
R-449A HFO	200/230	3	60	Extended Medium Temp
R-449A HFO	200/220	3	50	Extended Medium Temp