

**BEFORE THE
PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the application of Ohio	)	
Edison Company and Springfield	)	
Regional Medical Center to Commit	)	Case No. 13-0949-EL-EEC
Energy Efficiency/Peak Demand	)	
Reduction Programs	)	

NOTICE OF FILING AMENDMENT TO JOINT APPLICATION

Ohio Edison Company ("Ohio Edison") hereby provides notice of its filing of an amendment to the Application to Commit Energy Efficiency/Peak Demand Reduction Program ("Application") that it filed jointly with Springfield Regional Medical Center (Springfield) on August 28, 2013. Ohio Edison and Springfield now file an amendment to the Application to provide additional supporting documents requested by the PUCO Staff for Projects 1 and 3, and also to correctly identify the energy savings set forth on the PUCO template.

Respectfully submitted,

/s/ Lindsey Sacher

Kathy Kolich (0038855)
Carrie M. Dunn (0076952)
FIRSTENERGY SERVICE COMPANY
76 South Main Street
Akron, OH 44308
(330) 761-7735
kjkolich@firstenergycorp.com
cdunn@firstenergycorp.com

Colleen M. O'Neil (0066576)
Lindsey E. Sacher (0087883)
CALFEE, HALTER & GRISWOLD LLP
1405 East Sixth Street
Cleveland, OH 44114
(216) 622-8200
coneil@calfee.com
lsacher@calfee.com

ATTORNEYS FOR OHIO EDISON



Public Utilities Commission

Application to Commit
Energy Efficiency/Peak Demand
Reduction Programs
(Mercantile Customers Only)

Case No.: 13-0949 -EL-EEC

Mercantile Customer: Springfield Regional Medical Center

Electric Utility: Ohio Edison Company

Program Title or
Description: New Hospital

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. 10-834-EL-POR

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at ee-pdr@puc.state.oh.us.

Section 1: Mercantile Customer Information

Name: Springfield Regional Medical Center

Principal address: 100 Medical Center Dr, Springfield, OH 45504

Address of facility for which this energy efficiency program applies: See Exhibit 1

Name and telephone number for responses to questions: Dan Dumond 614-949-5203

Electricity use by the customer (check the box(es) that apply):

- ☒ The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)
- ☐ The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

Section 2: Application Information

A) The customer is filing this application (choose which applies):

- ☐ Individually, without electric utility participation.
- ☒ Jointly with the electric utility.

B) The electric utility is: Ohio Edison Company

C) The customer is offering to commit (check any that apply):

- ☐ Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
- ☐ Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- ☒ Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

A) The customer's energy efficiency program involves (check those that apply):

- ☐ Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)). **If Checked, Please see Exhibit 1 and Exhibit 2**
- ☐ Installation of new equipment to replace equipment that needed to be replaced. The customer installed new equipment on the following date(s): ____.
- ☒ Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
See Exhibit 1.
- ☐ Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

- 1) If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) – (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 2,936,762 kWh

- 2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

- 3) If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 2,936,762 kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

- 4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

Section 4: Demand Reduction/Demand Response Programs

A) The customer's program involves (check the one that applies):

- ☒ Coincident peak-demand savings from the customer's energy efficiency program.
- ☐ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
- ☐ Potential peak-demand reduction (check the one that applies):
 - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
 - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

B) On what date did the customer initiate its demand reduction program?

See Exhibit 1

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

55 kW

**Section 5: Request for Cash Rebate Reasonable
Arrangement (Option 1) or Exemption from Rider (Option 2)**

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

A) The customer is applying for:

☒ Option 1: A cash rebate reasonable arrangement.

OR

☐ Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

☐ Commitment payment

B) The value of the option that the customer is seeking is:

Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):

☒ A cash rebate of \$136,117. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

☐ An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for _____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

☐ A commitment payment valued at no more than \$_____. (Attach documentation and calculations showing how this payment amount was determined.)

OR

- ☐ Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

- ☐ Total Resource Cost (TRC) Test. The calculated TRC value is: _____(Continue to Subsection 1, then skip Subsection 2)
- ☒ Utility Cost Test (UCT) . The calculated UCT value is: **See Exhibit 3** (Skip to Subsection 2.)

Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were **See Exhibit 3**

The utility's program costs were **See Exhibit 3**

The utility's incentive costs/rebate costs were **See Exhibit 3**

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.
- A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;
 - 2) a description of any consequences of noncompliance with the terms of the commitment;
 - 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
 - 4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
 - 5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.



**Public Utilities
Commission**

**Application to Commit
Energy Efficiency/Peak Demand
Reduction Programs
(Mercantile Customers Only)**

Case No.: 13-0949 -EL-EEC

State of Ohio :

William J. Kusnierz, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Springfield Regional Medical Center

[insert customer or EDU company name and any applicable name(s) doing business as]

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

William J. Kusnierz, CEO
Signature of Affiant & Title

Sworn and subscribed before me this 14 day of May, 2013 Month/Year

Fonda Akers
Signature of official administering oath

FONDA AKERS - NOTARY
Print Name and Title

My commission expires on _____



FONDA AKERS
NOTARY PUBLIC
STATE OF OHIO
Comm. Expires
November 29, 2017

Springfield Regional Medical Center		Attachment J			
Chiller Rebate Calculation					
Type	Size	FE 2012 Minimum Efficiency NPLV (kw/ton)	Leaving Chilled Water Temp	Entering Condenser Water Temp	Condenser Flow Rate (gpm/ton)
Centrifugal	>=300	0.524925198	40	85	3
Unit Size (tons)	# of Units	Unit Efficiency NPLV (kw/ton)	Runtime (hours)	Load Factor	
1000	1	0.383	5520	0.6	
Savings Vs minimum efficient chiller					
kWh	470,056.26				
Rebate @ \$.08/kWh	\$ 37,604.50				
75% Rebate	\$ 28,203.38				
Chiller Rebate Calculation					
Type	Size	FE 2012 Minimum Efficiency NPLV (kw/ton)	Leaving Chilled Water Temp	Entering Condenser Water Temp	Condenser Flow Rate (gpm/ton)
Centrifugal	>=300	0.524925198	40	85	3
Unit Size (tons)	# of Units	Unit Efficiency NPLV (kw/ton)	Runtime (hours)	Load Factor	
400	1	0.383	5520	0.6	
Savings Vs minimum efficient chiller					
kWh	188,022.50				
Rebate @ \$.08/kWh	\$ 15,041.80				
75% Rebate	\$ 11,281.35				
Total					
kWh	658,078.76				
Rebate @ \$.08/kWh	52,646.30				
75% Rebate	39,484.73				

Springfield Regional Medical Center					
Chiller Rebate Calculation					
Type	Size	FE 2012 Minimum Efficiency NPLV (kw/ton)	Leaving Chilled Water Temp	Entering Condenser Water Temp	Condenser Flow Rate (gpm/ton)
Centrifugal	>=300	0.6828	40	85	3
Unit Size (tons)	# of Units	Unit Efficiency NPLV (kw/ton)	Runtime (hours)	Load Factor	
1000	1	0.383	5520	0.6	
Savings Vs minimum efficient chiller					
kWh	992,937.60				
Rebate @ \$.08/kWh	\$ 79,435.01				
75% Rebate	\$ 59,576.26				



Submittal

Trane U.S. Inc.

Prepared For:

T. J. Dyer Company

Attn: Mike Schlorman

Sold To:

T.J. Dyer Company

Date: August 21, 2009

Customer P.O. Number: 5182-0050

Customer Project Number:

Job Name:

Springfield Regional Medical Center

Centrifugal Chillers Tag: CH-1 , CH-2, and CH-3

Revised 8/21/09

Trane is pleased to provide the enclosed submittal for your review and approval.

Product Summary

Qty	Product
3	Centrifugal Water Chillers

Dan Schondelmayer
Trane
10300 Springfield Pike
Cincinnati, OH 45215-1118
Phone: (513) 771-8884
Fax: (513) 772-7281

The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.

Tag Data - Centrifugal Water Chillers (Qty: 3)

Item	Tag(s)	Qty	Description	Model Number
A1	CH-1 VFD	1	Centrifugal Chiller (CTV)	CVHF1070
A2	CH-2 Heat Rec	1	Centrifugal Chiller (CTV)	CVHF0910
A3	CH-3 VFD	1	Centrifugal Chiller (CTV)	CVHE0500

Product Data - Centrifugal Water Chillers**All Units**

North America region
 Adaptiview controls
 Without industrial chiller package
 Compressor hertz: 60
 Compressor voltage: 480 volt 3 phase
 Standard cooling
 Evaporator tube wall: .025 inch (0.6 mm) thick
 Evaporator fluid type: Water
 Evaporator waterbox type: Marine
 Evaporator waterbox construction: Standard
 Evaporator waterbox passes: Two pass
 Evaporator waterbox pressure: 150 psig (1034 kPa)
 Evaporator waterbox connection: Victaulic
 Condenser tube wall: .028 inch (0.7 mm) thick
 Condenser shell construction: Standard
 Condenser fluid type: Water
 Condenser waterbox type: 2 pass marine
 Condenser waterbox construction: Standard
 Two pass waterbox cond
 Condenser waterbox pressure: 150 psig (1034 kPa)
 Condenser waterbox connection: Victaulic
 Standard tube sheet construction
 Agency listing: U.L. listed unit (United States requirement)
 Shipping package: Domestic without skid
 Without China Energy Efficiency
 Unit option: Insulation package
 Green Seal not qualified
 Operating Status
 Condenser refrigerant pressure
 LonTalk Communications Interface
 With enhanced protection
 With RuptureGuard-relief valve-field install (Fld)
 Trane Supplied Refrigerant
 Year 2nd-5th Parts Warranty Unit
5 Year Parts Warranty Whole Unit
1st Year Labor Warranty Whole Unit with Trane Supplied Starter or VFD
2nd-5th Year Labor Warranty Whole Unit with Trane Supplied Starter or VFD
Delayed Start up Warranty 12 mo. from Start Not to Exceed 36 mo. from Ship
5 Year Refrigerant Leak Tight Warranty
Startup Supervision By Trane
Owner Training By Trane

Item: A1 Qty: 1 Tag(s): CH-1 VFD

Standard delivery CVHF & CVHG
 Centrifugal liquid chiller with 2 stage compressor R-123 refrigerant
 Compressor size: 1070 nominal tons
 60 hz Compressor motor power: 745 kW
 Compressor impeller cutback: 296
 Economizer: Single stage standard
 Evaporator shell size: 142 long
 Evaporator bundle size: 1080 nominal tons
 Evaporator tubes: 1.00 inch (25.4 mm) dia. micro internally enhanced copper
 Evaporator waterbox arrangement: in LH front - but LH rear
 Condenser shell size: 142 long
 Condenser bundle size: 1220 nominal tons

Condenser tube: 1.00 inch (25.4 mm) micro internally enhanced copper
Condenser waterbox arrangement: in RH front - out RH front
Orifice size: 1475 nominal tons
Factory performance test: Customer witnessed & one part load point
Factory tolerance test non/ARI user defined tolerance
Constant test point unloading
Brass logo with customer specified engraving (customer witness test)
Factory testable - yes
Apply special ton tolerance
Apply special kW/ton tolerance to full load only
Complies with all versions of ASHRAE/IESNA 90.1
Refrigerant Cooled AFD
Unit mounted adaptive frequency drive
Adaptive frequency drive maximum RLA: 900 amps
Starter power connection: Circuit breaker
Standard enclosure - Nema 1
Add Gantry to Condenser - One Side Only

Item: A2 Qty: 1 Tag(s): CH-2 Heat Rec

Std delivery heat recovery, free cooling, auxiliary & w/hgbp
Centrifugal liquid chiller with 2 stage compressor R-123 refrigerant
Compressor size: 910 nominal tons
60 hz Compressor motor power: 856 kW
Compressor impeller cutback: 315
Economizer: Single stage standard
Evaporator shell size: 142 medium
Evaporator bundle size: 1080 nominal tons
Evaporator tubes: 1.00 inch (25.4 mm) dia. micro internally enhanced copper
Evaporator waterbox arrangement: in RH front - out RH rear
Condenser shell size: 142 long
Condenser bundle size: 1220 nominal tons
Condenser tube: 1.00 inch (25.4 mm) internally enhanced copper
Condenser waterbox arrangement: in LH front - out LH front
Orifice size: 1540 nominal tons
Factory performance test: Standard air run and vibration test
Factory tolerance test: Standard air run and vibration test
Brass logo with customer specified engraving
Factory testable – No Heat recovery Chillers Cannot be ARI Factory Tested
Low Voltage Wye-Delta Starters
Starter type: Unit Mounted Wye-Delta
Starter maximum RLA: 935 Amps
Starter power connection: Circuit Breaker High-Interrupt
Starter power connection maximum RLA: 935 Amps
Starter power factor correct capacitor correct to 93.5-95.5% PF
starter option: volt and amp meters
Heat recovery condenser shell size: 142 long
Heat recovery condenser bundle size: 1220 nominal tons
Heat recovery condenser shell construction: Standard
Condenser tube: 1.00 inch (25.4 mm) micro internally enhanced copper
Heat recovery condenser tube wall: .028 inch (0.7 mm) thick
Heat recovery condenser fluid type: Water
Heat recovery condenser waterbox construction: Standard
Heat recovery condenser waterbox type: 2 pass non-marine
Two pass waterbox ht rec cond
Heat recovery condenser waterbox pressure: 150 psig (1034 kPa)
Heat recovery condenser waterbox connection: Victaulic
Heat recovery condenser waterbox arrangement: in RH end - out RH end
Add Gantry to Condenser - One Side Only
1600 amp Ckt Breaker is an acceptable size breaker for this chiller

Item: A3 Qty: 1 Tag(s): CH-3 VFD

Standard delivery CVHE
Centrifugal liquid chiller with 3 stage compressor R-123 refrigerant

Compressor size: 500 nominal tons
 60 hz Compressor motor power: 287 kW
 Compressor impeller cutback: 232
 Economizer: Two stage standard
 Evaporator shell size: 050 short
 Evaporator bundle size: 700 nominal tons
 Evaporator tubes: 0.75 inch (19.1 mm) dia. internally enhanced copper
 Evaporator waterbox arrangement: in RH front - out RH rear
 Condenser shell size: 050 long
 Condenser bundle size: 500 nominal tons
 Condenser tube: 1.00 inch (25.4 mm) micro internally enhanced copper
 Condenser waterbox arrangement: in LH rear - out LH rear
 Orifice size: 500 nominal tons
 Factory performance test: Customer witnessed & one part load point
 Factory tolerance test non/ARI user defined tolerance
 Constant test point unloading
 Brass logo with customer specified engraving (customer witness test)
 Factory testable - yes
 Apply special ton tolerance
 Apply special kW/ton tolerance to full load only
 Complies with all versions of ASHRAE/IESNA 90.1
 Refrigerant Cooled AFD
 Unit mounted adaptive frequency drive
 Adaptive frequency drive maximum RLA: 405 amps
 Starter power connection: Circuit breaker
 Standard enclosure - Nema 1
 Add Gantry to Condenser - One Side Only

Performance Data - Centrifugal Water Chillers

Tags	CH-1 VFD	CH-2 Heat Rec	CH-3 VFD
Nameplate kW (kW)	620.00	731.4	251.20
Nameplate RLA (A)	810.90	973.8	334.60
Nameplate MCA (A)	1023.00	1226	428.00
Nameplate MOCP (A)	1600.00	2000	700.00
Primary tons of refrigeration (tons)	1000.00	1000.00	400.00
Primary kW (kW)	620.00	674.8	251.20
Primary RLA (A)	810.90	902.7	334.60
Motor locked rotor amps (A)	5915.00	6581	2345.00
Minimum circuit ampacity (A)	1023.00	1226	428.00
Maximum over current protection (A)	1600.00	2000	700.00
Primary kW/t (kW/ton)	0.620	.675	0.628
NPLV (kW/ton)	0.383	-	0.388
Evaporator entering fluid temp (F)	54.00	54.00	54.00
Evaporator leaving fluid temp (F)	40.00	40.00	40.00
Evaporator gallons per minute (gpm)	1705.00	1705.00	682.00
Evaporator pressure drop (ft H2O)	15.69	14.05	5.73
Evaporator fouling factor (hr-sq ft-deg F/Btu)	0.00010	0.00010	0.00010
Evaporator fluid concentration (%)	0.00	0.00	0.00
Condenser entering fluid temp (F)	85.00	85.00	85.00
Condenser leaving fluid temp (F)	94.37	94.58	94.46
Condenser gallons per minute (gpm)	3000.00	3000.00	1200.00
Condenser pressure drop (ft H2O)	21.09	17.20	20.71
Condenser fouling factor (hr-sq ft-deg F/Btu)	0.00025	0.00025	0.00025
Condenser fluid concentration (%)	0.00	0.00	0.00
HCFC 123 refrigerant charge (lb)	1550.0	1650.0	600.0
Shipping weight (lb)	35410.0	40056.0	19518.0
Operating weight (lb)	42891.0	50127.0	22066.0
Heat rejected into equipment room (MBh)	10.58	11.12	4.29
Evaporator minimum flow rate (gpm)	433.70	433.70	406.20
HEAT RECOVERY MODE DATA			

Tags	CH-1 VFD	CH-2 Heat Rec	CH-3 VFD
Evaporator flow maximum (gpm)	-	3180.80	-
Evaporator pressure drop maximum flow (ft H2O)	-	47.73	-
Evaporator pressure drop minimum flow (ft H2O)	-	0.96	-
Condenser flow maximum (gpm)	-	4452.10	-
Condenser pressure drop maximum flow (ft H2O)	-	36.05	-
Condenser flow minimum (gpm)	-	1214.20	-
Condenser pressure drop minimum flow (ft H2O)	-	3.44	-
Tons of refrigeration - secondary (tons)	-	900.00	-
Heating condenser load - secondary (mbh) (MBh)	-	13030.74	-
Performance kilowatt - secondary (kW)	-	731.4	-
Performance RLA - secondary (A)	-	973.8	-
Minimum circuit ampacity - secondary (A)	-	1226	-
Maximum over current prot - secondary (A)	-	2000	-
Performance kW/t - secondary (kW/ton)	-	.813	-
Evap entering fluid temp - secondary (F)	-	52.60	-
Evap leaving fluid temp - secondary (F)	-	40.00	-
Evap gallons per minute - secondary (gpm)	-	1705.00	-
Evap pressure drop - secondary (ft H2O)	-	14.05	-
Evap fouling factor - secondary (hr-sq ft-deg F/Btu)	-	0.00010	-
Evap fluid concentration - secondary (%)	-	0.00	-
Cond entering fluid temp - secondary (F)	-	113.8	-
Cond leaving fluid temp - secondary (F)	-	113.8	-
Cond gallons per minute - secondary (gpm)	-	1675	-
Cond pressure drop - secondary (ft H2O)	-	16.74	-
Cond fouling factor - secondary (hr-sq ft-deg F/Btu)	-	0.00025	-
Cond fluid concentration - secondary (%)	-	0.00	-
Heating condenser entering water temp (F)	-	95.00	-
Heating condenser leaving water temp (F)	-	103.75	-
Heating condenser gallons per minute (gpm)	-	1675	-
Heating condenser pressure drop (ft H2O)	-	19.93	-
Heating condenser fouling factor (hr-sq ft-deg F/Btu)	-	0.00025	-
Heating condenser fluid concentration (%)	-	0.00	-

Each chiller will be factory run tested after assembly with air as the compressed medium to test for proper compressor run operation , unloading operation and vibration. This is in addition to hydrostatically testing the condenser , heat recovery vessel and condenser assemblies .

In addition chillers CH-1 and CH-3 will be charged with refrigerant , set up and piped and wired and will be factory witnessed tested on the Trane test stand for capacity and performance at full load as well as one part load condition with constant condenser water temperature.

Chiller CH-2 as a heat recovery chiller physically cannot be tested on the test stand and therefore will only be tested per paragraph one above .

Springfield Memorial Hospital

Attachment B

Motor Savings
P1

Tag	Quantity	Hours Of Operation	Loading	LF	Enclosure	Make	Model	HP	EFF %	RPM	Minimum Code	Savings (kWH)
TWP 1 through 3	3	5520	VFD	0.75	ODP	US MOTOR	DC73	50	94.5	1200	93	10542.54992
TWP 4 through 5	2	5520	VFD	0.75	ODP	US MOTOR	DB92	20	92.4	1200	91	2742.537463
CWP 1-3	3	5520	VFD	0.75	ODP	US MOTOR	DB92	20	92.4	1200	91	4113.806194
CWP 1&2	2	5520	VFD	0.75	ODP	US MOTOR	DC74	60	95	1800	93.6	7780.145749
CWP 4&5	2	5520	VFD	0.75	ODP	US MOTOR	DR62	7.5	91	1200	88.5	1917.452039
CWP 6&7	2	5520	VFD	0.75	ODP	US MOTOR	DD10	125	95.4	1200	94.1	14908.13333
CWP 8 & 11-13	4	5520	Constant	0.75	ODP	US MOTOR	DC20	5	89.5	1800	87.5	2103.327055
CWP 9	1	5520	Constant	0.75	ODP	US MOTOR	AT65	1.5	86.5	1800	84	212.5268373
CWP 10,14,15	3	5520	Constant	0.75	ODP	US MOTOR	CS18	3	88.5	1200	86.5	968.2578623
HVAC SF 1-2	2	2790	VFD	0.75	ODP	US MOTOR	DB40	7.5	91	1800	88.5	969.1469547
HVAC SF 3-4	2	2790	VFD	0.75	ODP	US MOTOR	DC41	50	94.5	1800	93	3552.380952
HVAC EF 1-4	4	2790	VFD	0.75	ODP	US MOTOR	DC20	5	89.5	1800	87.5	1063.094653
HVAC EF 5-6	2	2790	VFD	0.75	ODP	US MOTOR	DB40	7.5	91	1800	88.5	969.1469547
HVAC EF 9 & 16	2	2790	VFD	0.75	ODP	US MOTOR	DS53	1	85.5	1800	82.5	177.0411483
HVAC EF 10-14	5	2790	Constant	0.75	ODP	US MOTOR	AT63	1.5	86.5	1800	84	537.0922791
HVAC EF 15	1	2790	Constant	0.75	ODP	US MOTOR	DS66	2	86.5	1800	84	143.2246078
HVAC EF 17,19,25	3	2790	VFD	0.75	ODP	US MOTOR	CF40	3	89.5	1800	86.5	725.884716
HVAC EF 20-21	2	2790	Constant	0.75	TEFC	US MOTOR	DE82	10	91.7	1800	89.5	1115.843624
HVAC EF 22-23,26,27	4	2790	VFD	0.75	ODP	US MOTOR	DC20	5	89.5	1800	87.5	1063.094653
HVAC EF 24	1	2790	VFD	0.75	ODP	US MOTOR	DB51	10	91.7	1800	89.5	557.9218121
HVAC EF 28	1	2790	VFD	0.75	ODP	US MOTOR	DT58	15	93	1800	91	737.8021978
HVAC EF 29-34	6	2790	VFD	0.75	ODP	US Motor	DC20	5	89.5	1800	87.5	1594.641979
HVAC EF 36	1	2790	VFD	0.75	TEFC	US Motor	AS72	1.5	86.5	1800	84	107.4184558
HVAC EF 40	1	2790	Constant	0.75	TECF	US Motor	DF08	7.5	91.7	1800	88.5	615.5192873
AHU-1 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM3313T	10	91.7	1800	89.5	1115.843624
AHU-1 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2539T	40	94.1	1800	93	2092.922423
AHU-2 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2543T	50	94.5	1800	93	3552.380952
AHU-2 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2558T	150	96.2	1800	95	8198.735091
RTU-1 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2515T	20	93	1800	91	1967.472527
RTU-1 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2547T	60	95	1800	93.6	3932.356275
RTU-2 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2531T	25	93.6	1800	91.7	2303.676286
RTU-2 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2551T	75	95	1800	94.1	3143.138878
RTU-3 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2555T	100	95.4	1800	94.1	6028.071301
RTU-3 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2531T	25	93.6	1800	91.7	2303.676286
RTU-4 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2551T	75	95	1800	94.1	3143.138878
RTU-4 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2531T	25	93.6	1800	91.7	2303.676286
RTU-5 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2551T	75	95	1800	94.1	3143.138878
RTU-5 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2531T	25	93.6	1800	91.7	2303.676286
RTU-6 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2547T	60	95	1800	93.6	3932.356275
RTU-6 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2515T	20	93	1800	91	1967.472527

Springfield Memorial Hospital

Attachment B

Motor Savings

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RTU-7 SF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2547T	60	95	1800	93.6	3932.356275
RTU-7 RF 1-2	2	2790	VFD	0.75	ODP	Baldor	EM2515T	20	93	1800	91	1967.472527

Totals 116549.55

Springfield Memorial Hospital

VFD Savings

P1

Motor Application	VFD Make	Model	Tag	Location	Enclosure	Runtime	LF	Model	HP	Quantity	EFF	Savings (kWh)
Exhaust Fan	ABB	ACH550	EF-16	Mech Rm 1	ODP	2790	0.75	US Motor DS53	1	1	85.5	346.89
Exhaust Fan	ABB	ACH550	EF-36	Mech Rm 1	TEFC	2790	0.75	US Motor AS72	1.5	1	86.5	514.3195665
Exhaust Fan	ABB	ACH550	EF-17	Mech Rm 1	ODP	2790	0.75	US Motors CF40	3	1	89.5	994.1596089
Exhaust Fan	ABB	ACH550	EF-1	Mech Rm 1	ODP	2790	0.75	US Motors DC20	5	1	89.5	1656.932682
Exhaust Fan	ABB	ACH550	EF-2	Mech Rm 1	ODP	2790	0.75	US Motors DC20	5	1	89.5	1656.932682
Exhaust Fan	ABB	ACH550	EF-3	Mech Rm 1	ODP	2790	0.75	US Motors DC20	5	1	89.5	1656.932682
Exhaust Fan	ABB	ACH550	EF-4	Mech Rm 1	ODP	2790	0.75	US Motors DC20	5	1	89.5	1656.932682
Exhaust Fan	ABB	ACH550	EF-22	Mech Rm 1	ODP	2790	0.75	US Motors DC20	5	1	89.5	1656.932682
Exhaust Fan	ABB	ACH550	EF-23	Mech Rm 1	ODP	2790	0.75	US Motors DC21	6	1	89.5	1988.319218
Exhaust Fan	ABB	ACH550	EF-27	Mech Rm 1	ODP	2790	0.75	US Motors DC22	7	1	89.5	2319.705754
Exhaust Fan	ABB	ACH550	EF-29	Mech Rm 1	ODP	2790	0.75	US Motors DC23	8	1	89.5	2651.092291
Exhaust Fan	ABB	ACH550	EF-30	Mech Rm 1	ODP	2790	0.75	US Motors DC24	9	1	89.5	2982.478827
Exhaust Fan	ABB	ACH550	EF-31	Mech Rm 1	ODP	2790	0.75	US Motors DC25	10	1	89.5	3313.865363
Exhaust Fan	ABB	ACH550	EF-32	Mech Rm 1	ODP	2790	0.75	US Motors DC26	11	1	89.5	3645.251899
Exhaust Fan	ABB	ACH550	EF-33	Mech Rm 1	ODP	2790	0.75	US Motors DC27	12	1	89.5	3976.638436
Exhaust Fan	ABB	ACH550	EF-34	Mech Rm 1	ODP	2790	0.75	US Motors DC28	13	1	89.5	4308.024972
Exhaust Fan	ABB	ACH550	EF-5	Mech Rm 1	ODP	2790	0.75	US Motors DB40	7.5	1	91	2444.430907
Exhaust Fan	ABB	ACH550	EF-6	Mech Rm 1	ODP	2790	0.75	US Motors DB40	7.5	1	91	2444.430907
Supply Fan	ABB	ACH550	SF-1	Mech Rm 1	ODP	2790	0.75	US Motors DB40	7.5	1	91	2444.430907
Supply Fan	ABB	ACH550	SF-2	Mech Rm 1	ODP	2790	0.75	US Motors DB40	7.5	1	91	2444.430907
Water Pump	ABB	ACH550	CWP-4	Mech Rm 1	ODP	5520	0.75	US Motors DR62	7.5	1	91	4836.293407
Water Pump	ABB	ACH550	CWP-5	Mech Rm 1	ODP		0.75	US Motors DR62	7.5	1	91	4836.293407
Return Fan	ABB	ACH550	AHU-1-R1	Mech Rm 1	ODP	2790	0.75	Baldor EM3313-T	10	1	91.7	3234.361505
Return Fan	ABB	ACH550	AHU-1-R2	Mech Rm 1	ODP	2790	0.75	Baldor EM3313-T	10	1	91.7	3234.361505
Exhaust Fan	ABB	ACH550	EF-24	Mech Rm 1	ODP	2790	0.75	US Motor DB51	10	1	91.7	3234.361505
Exhaust Fan	ABB	ACH550	EF-28	Mech Rm 1	ODP	2790	0.75	US Motor DT58	15	1	93	4783.725
Return Fan	ABB	ACH550	RTU-6 R1	Mech Rm 1	ODP	2790	0.75	Baldor EM2515T	20	1	93	6378.3
Return Fan	ABB	ACH550	RTU-6 R2	Mech Rm 1	ODP	2790	0.75	Baldor EM2515T	20	1	93	6378.3
Return Fan	ABB	ACH550	RTU-7 R1	Mech Rm 1	ODP	2790	0.75	Baldor EM2515T	20	1	93	6378.3
Return Fan	ABB	ACH550	RTU-7 R2	Mech Rm 1	ODP	2790	0.75	Baldor EM2515T	20	1	93	6378.3

Springfield Memorial Hospital

VFD Savings

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Water Pump	ABB	ACH550	BP-1	Mech Rm 1	ODP	5520	0.75	Baldor M2523	15	1	91	9672.586813
Water Pump	ABB	ACH550	BP-2	Mech Rm 1	ODP	5520	0.75	Baldor M2523	15	1	91	9672.586813
Water Pump	ABB	ACH550	BP-3	Mech Rm 1	ODP	5520	0.75	Baldor EM2523	15	1	91	9672.586813
Water Pump	ABB	ACH550	SMP-1	Mech Rm 1	ODP	5520	0.75	Baldor EM2523	15	1	91	9672.586813
Water Pump	ABB	ACH550	SMP-2	Mech Rm 1	ODP	5520	0.75	Baldor EM 2523	15	1	91	9672.586813
Water Pump	ABB	ACH550	TWP-4	Mech Rm 1	ODP	5520	0.75	US Motors DB92	20	1	92.4	12701.37662
Water Pump	ABB	ACH550	TWP-5	Mech Rm 1	ODP	5520	0.75	US Motors DB92	20	1	92.4	12701.37662
Water Pump	ABB	ACH550	CWP-1	Mech Rm 1	ODP	5520	0.75	US Motors DB92	20	1	92.4	12701.37662
Water Pump	ABB	ACH550	CWP-2	Mech Rm 1	ODP	5520	0.75	US Motors DB92	20	1	92.4	12701.37662
Water Pump	ABB	ACH550	CWP-3	Mech Rm 1	ODP	5520	0.75	US Motors DB92	20	1	92.4	12701.37662
Return Fan	ABB	ACH550	RTU-3-R1	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Return Fan	ABB	ACH550	RTU-3-R2	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Return Fan	ABB	ACH550	RTU-4-R1	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Return Fan	ABB	ACH550	RTU-4-R2	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Return Fan	ABB	ACH550	RTU-5-R1	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Return Fan	ABB	ACH550	RTU-5-R2	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Return Fan	ABB	ACH550	RTU-2-R1	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Return Fan	ABB	ACH550	RTU-2-R2	Mech Rm 1	ODP	2790	0.75	Baldor EM2531T	25	1	93.6	7921.766827
Fan	ABB	ACH550	CT-1-F1	Mech Rm 1	ODP	2790	0.75	Baldor M2535	30	1	92.4	9629.576299
Fan	ABB	ACH550	CT-1-F2	Mech Rm 1	ODP	2790	0.75	Baldor M2535	30	1	92.4	9629.576299
Fan	ABB	ACH550	CT-1-F3	Mech Rm 1	ODP	2790	0.75	Baldor M2535	30	1	92.4	9629.576299
Fan	ABB	ACH550	CT-1-F4	Mech Rm 1	ODP	2790	0.75	Baldor M2535	30	1	92.4	9629.576299
Supply Fan	ABB	ACH550	AHU-1-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2539T	40	1	94.1	12607.47928
Supply Fan	ABB	ACH550	AHU-1-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2539T	40	1	94.1	12607.47928
Return Fan	ABB	ACH550	RTU-1-R1	Mech Rm 1	ODP	2790	0.75	Baldor EM2515T	20	1	93	6378.3
Return Fan	ABB	ACH550	RTU-2-R2	Mech Rm 1	ODP	2790	0.75	Baldor EM2515T	20	1	93	6378.3
Supply Fan	ABB	ACH550	SF-3	Mech Rm 1	ODP	2790	0.75	US Motors DC41	50	1	94.5	15692.64286
Supply Fan	ABB	ACH550	SF-4	Mech Rm 1	ODP	2790	0.75	US Motors DC41	50	1	94.5	15692.64286
Return Fan	ABB	ACH550	AHU-2-R1	Mech Rm 1	ODP	2790	0.75	US Motors DC41	50	1	94.5	15692.64286
Return Fan	ABB	ACH550	AHU-2-R2	Mech Rm 1	ODP	2790	0.75	US Motors DC41	50	1	94.5	15692.64286
Water Pump	ABB	ACH550	TWP-1	Mech Rm 1	ODP	5520	0.75	US Motors DC73	50	1	92.4	31753.44156

Springfield Memorial Hospital

VFD Savings

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Water Pump	ABB	ACH550	TWP-2	Mech Rm 1	ODP	5520	0.75	US Motors DC73	50	1	92.4	31753.44156
Water Pump	ABB	ACH550	TWP-3	Mech Rm 1	ODP	5520	0.75	US Motors DC73	50	1	92.4	31753.44156
Supply Fan	ABB	ACH550	RTU-1-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2547T	60	1	95	18732.06
Supply Fan	ABB	ACH550	RTU-1-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2547T	60	1	95	18732.06
Supply Fan	ABB	ACH550	RTU-6-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2547T	60	1	95	18732.06
Supply Fan	ABB	ACH550	RTU-6-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2547T	60	1	95	18732.06
Supply Fan	ABB	ACH550	RTU-7-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2547T	60	1	95	18732.06
Supply Fan	ABB	ACH550	RTU-7-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2547T	60	1	95	18732.06
Water Pump	ABB	ACH550	HWP-1	Mech Rm 1	ODP	5520	0.75	US Motors DC74	60	1	95	37061.28
Water Pump	ABB	ACH550	HWP-2	Mech Rm 1	ODP	5520	0.75	US Motors DC74	60	1	95	37061.28
Supply Fan	ABB	ACH550	RTU-2-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2551T	75	1	95	23415.075
Supply Fan	ABB	ACH550	RTU-2-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2551T	75	1	95	23415.075
Supply Fan	ABB	ACH550	RTU-4-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2551T	75	1	95	23415.075
Supply Fan	ABB	ACH550	RTU-4-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2551T	75	1	95	23415.075
Supply Fan	ABB	ACH550	RTU-5-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2551T	75	1	95	23415.075
Supply Fan	ABB	ACH550	RTU-5-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2551T	75	1	95	23415.075
Supply Fan	ABB	ACH550	RTU-3-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2555T	100	1	95.4	31089.19811
Supply Fan	ABB	ACH550	RTU-3-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2555T	100	1	95.4	31089.19811
Supply Fan	ABB	ACH550	AHU-2-S1	Mech Rm 1	ODP	2790	0.75	Baldor EM2558T	150	1	96.2	46245.99012
Supply Fan	ABB	ACH550	AHU-2-S2	Mech Rm 1	ODP	2790	0.75	Baldor EM2558T	150	1	96.2	46245.99012
Water Pump	ABB	ACH550	CWP-6	Mech Rm 1	ODP	5520	0.75	US Motors DD10	125	1	95.4	76887.26415
Water Pump	ABB	ACH550	CWP-7	Mech Rm 1	ODP	5520	0.75	US Motors DD10	125	1	95.4	76887.26415
										Totals	1,139,990.72	

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DB92	D20P3D	3	DE	286T

ORDER NO.	20688	LINE NO.	
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MPI:	130643	130644	130645	130646	130647
HP:	20	20	20	20	20
POLES:	6	6	6	6	6
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	91.5	91.5	89.6	87.5	87.5
FULL	92.4	92.4	91	89.5	89.5
3/4	93.1	93.1	92.6	91.8	91.8
1/2	92.9	92.9	93.1	92.8	92.8
1/4	89.9	89.9	91	91.2	91.2
POWER FACTOR (%):					
S.F.	84.8	84.8	84.7	85.1	85.1
FULL	84.2	84.2	85.1	85.3	85.3
3/4	81.3	81.3	84.1	83.9	83.9
1/2	73.9	73.9	79.4	78.7	78.7
1/4	54.2	54.2	63.2	60.9	60.9
NO LOAD	5.1	5.1	5.7	4.9	4.9
LOCKED ROTOR	41.2	41.2	39.9	43.6	43.6
AMPS:					
S.F.	27.8	56	63	35	70
FULL	24.3	49	53	29.7	59
3/4	18.6	37	40	22.1	44
1/2	13.6	27.3	28	15.5	31
1/4	9.6	19.2	18	10.2	20.4
NO LOAD	8	16	13.3	7.9	15.7
LOCKED ROTOR	144.9	290.9	255.2	136.5	273
NEMA CODE LETTER	G	G	E	E	E
NEMA DESIGN LETTER	B	B	#	#	#
FULL LOAD RPM	1180	1180	1175	975	975
NEMA NOMINAL EFFICIENCY (%)	92.4	92.4	91	89.5	89.5
GUARANTEED EFFICIENCY (%)	91	91	89.5	87.5	87.5
MAX KVAR	5.4	5.4	4.1	4.4	4.4
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30	30	30	30
SOUND PRESSURE (DBA @ 1M)	59	59	59	55	55
TORQUES:					
BREAKDOWN{% F.L.}	250	250	199	198	198
LOCKED ROTOR{% F.L.}	193	193	147	149	149
FULL LOAD{LB-FT}	88.9	88.9	89.3	107.8	107.8

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

NIDEC MOTOR CORPORATION

Submittal Schedule

This schedule includes the products supplied as part of this submittal.

Schedule			Motor Data ¹			Drive Data			
Item	Qty	Tag / Equipment ID	HP	FLA	Voltage	Product ID	HP	Output Amps	Voltage
1	1	EF-37, EF-38	.5	1.0	460 VAC	ACH550-VCR-03A3-4+F267	1.5	3.3	480 VAC
2	2	EF-35, EF-37	.75	1.4	460 VAC	ACH550-VCR-03A3-4+F267	1.5	3.3	480 VAC
3	1	EF-16	1	1.8	460 VAC	ACH550-VCR-03A3-4+F267	1.5	3.3	480 VAC
4	1	EF-36	1.5	2.6	460 VAC	ACH550-VCR-03A3-4+F267	1.5	3.3	480 VAC
5	1	EF-17	3	4.8	460 VAC	ACH550-VCR-06A9-4+F267	3	6.9	480 VAC
6	13	EF-1, EF-2, EF-3, EF-4, EF-22, EF-23, EF-27, EF-29, EF-30, EF-31, EF-32, EF-33, EF-34	5	7.6	460 VAC	ACH550-VCR-08A8-4+F267	5	8.8	480 VAC
7	6	EF-5, EF-6, CWP-4, CWP-5, SF-1, SF-2	7.5	11	460 VAC	ACH550-VCR-012A-4+F267	7.5	11.9	480 VAC
8	1	ΔHIL-1-F ΔHIL-1-F EF-24	10	14	460 VAC	ACH550-VCR-015A-4+F267	10	15.4	480 VAC
9	14	AHU-1-R1, AHU-1-R2, BP-1, BP-2, BP-3, EF-28, RTU-1-R1, RTU-1-R2, RTU-6-R1, RTU-6-R2, RTU-7-R1, RTU-7-R2, SMP-1, SMP-2	15	21	460 VAC	ACH550-VCR-023A-4+F267	15	23	480 VAC
10	7	RTU-1-F, RTU-2-R1, RTU-2-R2, RTU-6-F, TWP-4, RTU-7-F, TWP-5, RTU-7-F, CWP-1, CWP-2, CWP-3 RTU-1-F	20	27	460 VAC	ACH550-VCR-031A-4+F267	20	31	480 VAC

Schedule			Motor Data ¹			Drive Data			
Item	Qty	Tag / Equipment ID	HP	FLA	Voltage	Product ID	HP	Output Amps	Voltage
11	6	RTU-1-2-F RTU-3-R1, RTU-3-R2, RTU-4-R1, RTU-4-R2, RTU-5-R1, RTU-5-R2 RTU-1-2-F	25	34	460 VAC	ACH550-VCR-038A-4+F267	25	38	480 VAC
12	4	CT-1-F1, CT-1-F2, CT-1-F3, CT-1-F4	30	40	460 VAC	ACH550-VCR-045A-4+F267	30	44	480 VAC
13	4	AHU-1-S1, AHU-1-S2, AHU-2-R1, AHU-2-R2	40	52	460 VAC	ACH550-VCR-059A-4+F267	40	59	480 VAC
14	5	AHU-1-2-F SF-3, SF-4, TWP-1, TWP-2, TWP-3 AHU-1-2-F	50	65	460 VAC	ACH550-VCR-072A-4+F267	50	72	480 VAC
15	6	RTU-1-S1, RTU-1-S2, RTU-6-S1, RTU-6-S2, RTU-7-S1, RTU-7-S2	60	77	460 VAC	ACH550-VCR-078A-4+F267	60	77	480 VAC
16	2	HWP-1 HWP-2	60	77	460 VAC	ACH550-BCR-078A-4+F267 w/ HG60AW01XM	60	77	480 VAC
17	6	RTU-2-S1, RTU-2-S2, RTU-4-S1, RTU-4-S2, RTU-5-S1, RTU-5-S2	75	96	460 VAC	ACH550-BCR-097A-4+F267 w/ HG75AW01XM	75	96	480 VAC
18	2	RTU-3-S1, RTU-3-S2	100	124	460 VAC	ACH550-BCR-125A-4+F267 w/ HG100AW01XM	100	124	480 VAC
19	4	AHU-2-S1, AHU-2-S2 CWP-6, CWP-7	125	156	460 VAC	ACH550-BCR-157A-4+F267 w/ HG125AW01XM	125	157	480 VAC

Notes: 1. AC Motor Data is per National Electrical Code Table 430.250 for typical motors used in most applications and is provided as typical data only. DC motor data is per typical industry standards. Actual motor data may vary.

AHU-2-S
AHU-1-2-F

ACH550

150

Performance Data: EM3313T

Product Nameplate Data :					
Rated Output	10 HP	Hertz	60	NEMA Nom. Eff.	91.7
Volts	230/460	Phase	3	Power Factor	82
Full Load Amps	25/12.5	NEMA Design Code	B	Service Factor	1.15
Speed	1765	LR KVA Code	H	Rating - Duty	40C AMB-CONT

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Performance Data: EFM2539T

Product Nameplate Data :					
Rated Output	40 HP	Hertz	60	NEMA Nom. Eff.	94.1
Volts	230/460	Phase	3	Power Factor	82
Full Load Amps	98/49	NEMA Design Code	A	Service Factor	1.15
Speed	1770	LR KVA Code	H	Rating - Duty	40C AMB-CONT

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Specifications: EM2543T

SPEC. NUMBER:	42F056W387
CATALOG NUMBER:	EM2543T
FL AMPS:	114/57
208V AMPS:	121
BEARING-DRIVE-END:	6312
BEARING-OPP-DRIVE-END:	6311
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	94.5
ENCLOSURE:	OPSB
FRAME:	326T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1775
OUTPUT [hp]:	50
PHASE:	3
POWER-FACTOR:	87
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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[AC Motors](#) | [Premium Efficient](#) | [150 HP](#) | [1400-1800 RPM](#) |
Specifications: EM2558T-4

SPEC. NUMBER:	P44G1770
CATALOG NUMBER:	EM2558T-4
AG-BLANK-LINE-1A:	--
AG-BLANK-LINE-2A:	--
AG-BLANK-LINE-3A:	--
AMBIENT-TEMPERATURE:	40
FL AMPS:	170
BRG-DE-AFBMA:	90BC03J30X
BRG-ODE-AFBMA:	90BC03J30X
DESIGN CODE:	B
DUTY:	CONT
FL EFFICIENCY:	96.2
EFFICIENCY-2:	95.8
EFFICIENCY-3:	--
ENCLOSURE:	DP
FRAME:	444T
HERTZ:	60
INSULATION CLASS:	F
KVA-CODE:	G
MAX. KVAR:	30.0
SPEED [rpm]:	1785
MOTOR-WEIGHT:	--
OUTPUT [hp]:	150
PHASE:	3
POWER-FACTOR:	85.7
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
TYPE:	P
VOLTAGE:	460

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[AC Motors](#) | [General Purpose](#) | [15 HP](#) | [1400-1800 RPM](#) |

Specifications: M2523

SPEC. NUMBER:	39L057X107H1
CATALOG NUMBER:	M2523
FL AMPS:	36/18
208V AMPS:	--
BEARING-DRIVE-END:	6311
BEARING-OPP-DRIVE-END:	6208
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	91
ENCLOSURE:	OPSB
FRAME:	284U
HERTZ:	60
INSULATION-CLASS:	B
KVA-CODE:	G
SPEED [rpm]:	1765
OUTPUT [hp]:	15
PHASE:	3
POWER-FACTOR:	85
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
VOLTAGE:	230/460

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SPEC. NUMBER:	40H008W350H1
CATALOG NUMBER:	M2535
FL AMPS:	74/37
208V AMPS:	--
BEARING-DRIVE-END:	6312
BEARING-OPP-DRIVE-END:	6309
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	92.4
ENCLOSURE:	OPSB
FRAME:	326U
HERTZ:	60
INSULATION-CLASS:	B
KVA-CODE:	H
SPEED [rpm]:	1775
OUTPUT [hp]:	30
PHASE:	3
POWER-FACTOR:	82
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
VOLTAGE:	230/460

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DR62	D7P3D	3	DE	254T

ORDER NO.	21956	LINE NO.	
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MPI:	143953	143954	143955	143956	143957
HP:	7.5	7.5	7.5	7.5	7.5
POLES:	6	6	6	6	6
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	90.9	90.9	89.6	88.1	88.1
FULL	91	91	90.2	88.5	88.5
3/4	91.7	91.7	91.4	90.8	90.8
1/2	90.8	90.8	91.2	91	91
1/4	85.9	85.9	87.4	87.8	87.8
POWER FACTOR (%):					
S.F.	83.1	83.1	84.4	84.8	84.8
FULL	81.6	81.6	83.8	84.1	84.1
3/4	76.9	76.9	80.8	80.8	80.8
1/2	66.9	66.9	73.5	72.9	72.9
1/4	45	45	53.5	51.9	51.9
NO LOAD	6	6	6.6	5.8	5.8
LOCKED ROTOR	45.3	45.3	44.2	48.1	48.1
AMPS:					
S.F.	10.7	21.4	23.6	13.1	26.2
FULL	9.5	18.9	20.5	11.4	22.8
3/4	7.5	14.9	15.8	8.7	17.4
1/2	5.8	11.6	11.6	6.4	12.8
1/4	4.5	9.1	8.3	4.7	9.3
NO LOAD	4.1	8.2	7	4	8
LOCKED ROTOR	59.7	119.5	106.1	56.7	112.3
NEMA CODE LETTER	H	H	F	E	E
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1185	1185	1180	980	980
NEMA NOMINAL EFFICIENCY (%)	91	91	90.2	88.5	88.5
GUARANTEED EFFICIENCY (%)	89.5	89.5	88.5	86.5	86.5
MAX KVAR	2.8	2.8	2.1	2.2	2.2
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30	30	30	30
SOUND PRESSURE (DBA @ 1M)	58	58	58	54	54
TORQUES:					
BREAKDOWN{% F.L.}	285	285	229	223	223
LOCKED ROTOR{% F.L.}	199	199	156	153	153
FULL LOAD{LB-FT}	33.3	33.3	33.4	40.3	40.3

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DD10	D125P3F	3	RE	445T

ORDER NO.	20815	LINE NO.	
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MPI:	132014	132015
HP:	125	125
POLES:	6	6
VOLTS:	460	380
HZ:	60	50
SERVICE FACTOR:	1.15	1.15
EFFICIENCY (%):		
S.F.	95	92.9
FULL	95.4	93.6
3/4	95.9	95.2
1/2	95.7	95.7
1/4	93.6	94.4
POWER FACTOR (%):		
S.F.	82.3	82.5
FULL	81.5	82.6
3/4	78	81
1/2	69.1	74.4
1/4	47.5	54.2
NO LOAD	2.8	2.7
LOCKED ROTOR	29.5	30.7
AMPS:		
S.F.	172	213
FULL	151	183
3/4	117	138
1/2	88	100
1/4	66	69
NO LOAD	56.2	55.3
LOCKED ROTOR	905.3	862.4
NEMA CODE LETTER	G	E
NEMA DESIGN LETTER	B	#
FULL LOAD RPM	1185	980
NEMA NOMINAL EFFICIENCY (%)	95.4	93.6
GUARANTEED EFFICIENCY (%)	94.5	92.4
MAX KVAR	38.1	30.9
AMBIENT (°C)	40	40
ALTITUDE (FASL)	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30
SOUND PRESSURE (DBA @ 1M)	69	65
TORQUES:		
BREAKDOWN{% F.L.}	229	184
LOCKED ROTOR{% F.L.}	151	119
FULL LOAD{LB-FT}	553.5	669.4

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DC20	D5PA2A	3	DE	184T

ORDER NO.	21463	LINE NO.	
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MPI:	136135	136136	136137
HP:	5	5	5
POLES:	4	4	4
VOLTS:	460	230	208
HZ:	60	60	60
SERVICE FACTOR:	1.15	1.15	1.15
EFFICIENCY (%):			
S.F.	88.7	88.7	86.7
FULL	89.5	89.5	87.5
3/4	90.5	90.5	90.2
1/2	90.1	90.1	90.7
1/4	85.5	85.5	87.7
POWER FACTOR (%):			
S.F.	85	85	87
FULL	83.1	83.1	86.1
3/4	77.9	77.9	82.9
1/2	67	67	75.2
1/4	44.4	44.4	54.5
NO LOAD	6	6	6.5
LOCKED ROTOR	54.3	54.3	52.8
AMPS:			
S.F.	7.1	14.3	15.8
FULL	6.3	12.6	13.8
3/4	5	10	10.4
1/2	3.9	7.8	7.6
1/4	3.1	6.2	5.4
NO LOAD	2.8	5.6	4.6
LOCKED ROTOR	45	90	79
NEMA CODE LETTER	J	J	G
NEMA DESIGN LETTER	B	B	B
FULL LOAD RPM	1760	1760	1750
NEMA NOMINAL EFFICIENCY (%)	89.5	89.5	87.5
GUARANTEED EFFICIENCY (%)	87.5	87.5	85.5
MAX KVAR	1.9	1.9	1.4
AMBIENT (°C)	40	40	40
ALTITUDE (FASL)	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	10	10	13
SOUND PRESSURE (DBA @ 1M)	58	58	58
TORQUES:			
BREAKDOWN{% F.L.}	333	333	264
LOCKED ROTOR{% F.L.}	220	220	171
FULL LOAD{LB-FT}	14.9	14.9	15

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
AT65	D32P2B2	3	DE	145T

ORDER NO.	LINE NO.
13553	

MPI:	66283	66284
HP:	1.5	1.5
POLES:	4	4
VOLTS:	460	230
HZ:	60	60
SERVICE FACTOR:	1.15	1.15
EFFICIENCY (%):		
S.F.	86.3	86.3
FULL	86.5	86.5
3/4	86.3	86.3
1/2	83.9	83.9
1/4	75.2	75.2
POWER FACTOR (%):		
S.F.	81.1	81.1
FULL	78.1	78.1
3/4	70.4	70.4
1/2	57.6	57.6
1/4	37.3	37.3
NO LOAD	8.6	8.6
LOCKED ROTOR	65.6	65.6
AMPS:		
S.F.	2.3	4.6
FULL	2.1	4.2
3/4	1.7	3.5
1/2	1.5	2.9
1/4	1.3	2.5
NO LOAD	1.2	2.4
LOCKED ROTOR	18.5	37
NEMA CODE LETTER	L	L
NEMA DESIGN LETTER	B	B
FULL LOAD RPM	1750	1750
NEMA NOMINAL EFFICIENCY (%)	86.5	86.5
GUARANTEED EFFICIENCY (%)	84	84
MAX KVAR	0.8	0.8
AMBIENT (°C)	40	40
ALTITUDE (FASL)	3300	3300
SAFE STALL TIME-HOT (SEC)	14	14
SOUND PRESSURE (DBA @ 1M)	55	55
TORQUES:		
BREAKDOWN{% F.L.}	478	478
LOCKED ROTOR{% F.L.}	384	384
FULL LOAD{LB-FT}	4.5	4.5

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
CS18	DJ3P3DM	3	DE4	213JM

ORDER NO.	20278	LINE NO.	
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MPI:	126667	126668	126669	126670	126671
HP:	3	3	3	3	3
POLES:	6	6	6	6	6
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	89.1	89.1	88	86.3	86.3
FULL	88.5	88.5	88.5	86.5	86.5
3/4	89.4	89.4	89.6	88.7	88.7
1/2	87.7	87.7	88.8	88.3	88.3
1/4	80.8	80.8	83.4	83.2	83.2
POWER FACTOR (%):					
S.F.	73.6	73.6	76.5	77.2	77.2
FULL	71	71	74.9	75.3	75.3
3/4	64.3	64.3	70.2	69.9	69.9
1/2	52.1	52.1	60.1	59.1	59.1
1/4	32.6	32.6	39.5	38.2	38.2
NO LOAD	5.4	5.4	5.7	5.4	5.4
LOCKED ROTOR	46.7	46.7	44.8	49.6	49.6
AMPS:					
S.F.	4.9	9.9	10.6	5.9	11.7
FULL	4.5	8.9	9.4	5.2	10.4
3/4	3.7	7.3	7.4	4.1	8.2
1/2	3.1	6.1	5.8	3.3	6.5
1/4	2.7	5.3	4.7	2.7	5.3
NO LOAD	2.6	5.1	4.4	2.5	5.1
LOCKED ROTOR	27.8	55.6	48.4	25.9	51.5
NEMA CODE LETTER	J	J	G	G	G
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1175	1175	1170	965	965
NEMA NOMINAL EFFICIENCY (%)	88.5	88.5	88.5	86.5	86.5
GUARANTEED EFFICIENCY (%)	86.5	86.5	86.5	84	84
MAX KVAR	1.8	1.7	1.3	1.4	1.4
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30	30	30	30
SOUND PRESSURE (DBA @ 1M)	54	54	54	50	50
TORQUES:					
BREAKDOWN{% F.L.}	311	311	244	244	244
LOCKED ROTOR{% F.L.}	243	243	183	188	188
FULL LOAD{LB-FT}	13.4	13.4	13.5	16.3	16.3

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MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DC20	D5PA2A	3	DE	184T

ORDER NO.	21463	LINE NO.	
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MPI:	136135	136136	136137
HP:	5	5	5
POLES:	4	4	4
VOLTS:	460	230	208
HZ:	60	60	60
SERVICE FACTOR:	1.15	1.15	1.15
EFFICIENCY (%):			
S.F.	88.7	88.7	86.7
FULL	89.5	89.5	87.5
3/4	90.5	90.5	90.2
1/2	90.1	90.1	90.7
1/4	85.5	85.5	87.7
POWER FACTOR (%):			
S.F.	85	85	87
FULL	83.1	83.1	86.1
3/4	77.9	77.9	82.9
1/2	67	67	75.2
1/4	44.4	44.4	54.5
NO LOAD	6	6	6.5
LOCKED ROTOR	54.3	54.3	52.8
AMPS:			
S.F.	7.1	14.3	15.8
FULL	6.3	12.6	13.8
3/4	5	10	10.4
1/2	3.9	7.8	7.6
1/4	3.1	6.2	5.4
NO LOAD	2.8	5.6	4.6
LOCKED ROTOR	45	90	79
NEMA CODE LETTER	J	J	G
NEMA DESIGN LETTER	B	B	B
FULL LOAD RPM	1760	1760	1750
NEMA NOMINAL EFFICIENCY (%)	89.5	89.5	87.5
GUARANTEED EFFICIENCY (%)	87.5	87.5	85.5
MAX KVAR	1.9	1.9	1.4
AMBIENT (°C)	40	40	40
ALTITUDE (FASL)	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	10	10	13
SOUND PRESSURE (DBA @ 1M)	58	58	58
TORQUES:			
BREAKDOWN{% F.L.}	333	333	264
LOCKED ROTOR{% F.L.}	220	220	171
FULL LOAD{LB-FT}	14.9	14.9	15

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MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DB40	D7P2DC	3	DE	213TC

ORDER NO.	20636	LINE NO.	
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MPI:	128016	128017	128018	128019	128020
HP:	7.5	7.5	7.5	7.5	7.5
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	91	91	89.5	87.5	87.5
FULL	91	91	90.2	88.5	88.5
3/4	92.2	92.2	91.8	91.1	91.1
1/2	91.6	91.6	92	91.8	91.8
1/4	87.5	87.5	88.9	89.3	89.3
POWER FACTOR (%):					
S.F.	84.5	84.5	85.6	85.7	85.7
FULL	83.3	83.3	85.3	85.3	85.3
3/4	79.4	79.4	83.4	82.9	82.9
1/2	70.7	70.7	77.7	76.1	76.1
1/4	49.4	49.4	59.5	56.4	56.4
NO LOAD	6	6	6.8	5.7	5.7
LOCKED ROTOR	44.9	44.9	44	47.3	47.3
AMPS:					
S.F.	10.5	21	23.3	13	26.1
FULL	9.3	18.5	20.2	11.3	22.5
3/4	7.2	14.4	15.2	8.4	16.9
1/2	5.4	10.8	10.9	6.1	12.2
1/4	4.1	8.1	7.3	4.2	8.4
NO LOAD	3.5	7.1	5.8	3.5	6.9
LOCKED ROTOR	60	120	105	56	113
NEMA CODE LETTER	H	H	F	F	F
NEMA DESIGN LETTER	B	B	B	#	#
FULL LOAD RPM	1765	1765	1755	1450	1450
NEMA NOMINAL EFFICIENCY (%)	91	91	90.2	88.5	88.5
GUARANTEED EFFICIENCY (%)	89.5	89.5	88.5	86.5	86.5
MAX KVAR	2.4	2.4	1.8	2	1.9
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	25	25	30	29	29
SOUND PRESSURE (DBA @ 1M)	58	58	58	54	54
TORQUES:					
BREAKDOWN{% F.L.}	294	294	231	231	231
LOCKED ROTOR{% F.L.}	225	225	176	174	174
FULL LOAD{LB-FT}	22.3	22.3	22.4	27.1	27.1

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DS53	D1P2D	3	DE	143T

ORDER NO.	22128	LINE NO.	
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MPI:	150858	150859	150860	150861	150862
HP:	1	1	1	1	1
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	85.8	85.8	85.4	84	84
FULL	85.5	85.5	85.5	84	84
3/4	84.1	84.1	84.9	84.4	84.4
1/2	80.3	80.3	82	82	82
1/4	69.2	69.2	72.4	73	73
POWER FACTOR (%):					
S.F.	74.3	74.3	79.7	80.5	80.5
FULL	70.2	70.2	76.3	77	77
3/4	60.8	60.8	67.8	68.2	68.2
1/2	47.7	47.7	54.6	54.5	54.5
1/4	30.1	30.1	35.1	34.6	34.6
NO LOAD	8.5	8.5	9	8.4	8.4
LOCKED ROTOR	69.3	69.3	68.2	74.2	74.2
AMPS:					
S.F.	1.7	3.4	3.5	1.9	3.9
FULL	1.6	3.1	3.2	1.8	3.5
3/4	1.4	2.7	2.7	1.5	3
1/2	1.2	2.4	2.3	1.3	2.5
1/4	1.1	2.2	2	1.1	2.2
NO LOAD	1.1	2.2	2	1.1	2.2
LOCKED ROTOR	14.8	29.5	26.3	13.1	26.2
NEMA CODE LETTER	N	N	L	K	K
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1760	1760	1750	1445	1445
NEMA NOMINAL EFFICIENCY (%)	85.5	85.5	85.5	84	84
GUARANTEED EFFICIENCY (%)	82.5	82.5	82.5	81.5	81.5
MAX KVAR	0.7	0.7	0.6	0.6	0.6
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	16	16	21	22	22
SOUND PRESSURE (DBA @ 1M)	55	55	55	51	51
TORQUES:					
BREAKDOWN{% F.L.}	572	572	460	425	425
LOCKED ROTOR{% F.L.}	456	456	362	357	357
FULL LOAD{LB-FT}	3	3	3	3.6	3.6

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
AT63	D32P2D	3	DE	145T

ORDER NO.	LINE NO.
13551	

MPI:	121135	121136	121137	122569	122570
HP:	1.5	1.5	1.5	1.5	1.5
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	86.3	86.3	85.1	82.8	82.8
FULL	86.5	86.5	85.5	84	84
3/4	86.3	86.3	86.4	85.7	85.7
1/2	83.8	83.8	85	84.9	84.9
1/4	75.2	75.2	77.7	78.4	78.4
POWER FACTOR (%):					
S.F.	81.1	81.1	84.6	85.3	85.3
FULL	78.1	78.1	82.5	83.1	83.1
3/4	70.4	70.4	76.5	76.7	76.7
1/2	57.6	57.6	65	64.7	64.7
1/4	37.3	37.3	43.7	42.8	42.8
NO LOAD	8.6	8.6	9.2	8.4	8.4
LOCKED ROTOR	65.5	65.5	64.1	70.6	70.6
AMPS:					
S.F.	2.3	4.6	5	2.8	5.5
FULL	2.1	4.2	4.4	2.4	4.9
3/4	1.7	3.5	3.5	1.9	3.9
1/2	1.5	2.9	2.8	1.5	3.1
1/4	1.3	2.5	2.3	1.3	2.5
NO LOAD	1.2	2.4	2.1	1.2	2.4
LOCKED ROTOR	18.5	37	33	16.5	33
NEMA CODE LETTER	L	L	J	J	J
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1750	1750	1735	1430	1430
NEMA NOMINAL EFFICIENCY (%)	86.5	86.5	85.5	84	84
GUARANTEED EFFICIENCY (%)	84	84	82.5	81.5	81.5
MAX KVAR	0.8	0.8	0.6	0.7	0.7
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	14	14	19	18	18
SOUND PRESSURE (DBA @ 1M)	55	55	55	51	51
TORQUES:					
BREAKDOWN{% F.L.}	476	476	379	357	357
LOCKED ROTOR{% F.L.}	384	384	300	304	304
FULL LOAD{LB-FT}	4.5	4.5	4.5	5.5	5.5

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DS66	D2P2D	3	DE	145T

ORDER NO.	22123	LINE NO.
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MPI:	150950	150951	150952	150953	150954
HP:	2	2	2	2	2
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	86.3	86.3	84.7	81.7	81.7
FULL	86.5	86.5	85.5	82.5	82.5
3/4	86.7	86.7	86.9	85.6	85.6
1/2	84.6	84.6	85.8	85.2	85.2
1/4	76.5	76.5	79.3	79.2	79.2
POWER FACTOR (%):					
S.F.	80.7	80.7	85.1	85.8	85.8
FULL	77.4	77.4	82.7	83.2	83.2
3/4	68.9	68.9	76	76	76
1/2	55.2	55.2	63.6	63	63
1/4	34.7	34.7	41.6	40.6	40.6
NO LOAD	7.3	7.3	7.8	7.4	7.4
LOCKED ROTOR	68.8	68.8	67.7	73.8	73.8
AMPS:					
S.F.	3.1	6.2	6.6	3.7	7.4
FULL	2.8	5.6	5.9	3.3	6.6
3/4	2.4	4.7	4.7	2.6	5.2
1/2	2	4	3.8	2.1	4.2
1/4	1.8	3.5	3.1	1.8	3.5
NO LOAD	1.7	3.4	2.9	1.7	3.4
LOCKED ROTOR	24.1	48	43	21.4	43
NEMA CODE LETTER	L	L	J	H	H
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1745	1745	1725	1420	1420
NEMA NOMINAL EFFICIENCY (%)	86.5	86.5	85.5	82.5	82.5
GUARANTEED EFFICIENCY (%)	84	84	82.5	80	80
MAX KVAR	1.2	1.2	0.9	1	1
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	10	10	13	13	13
SOUND PRESSURE (DBA @ 1M)	55	55	55	51	51
TORQUES:					
BREAKDOWN{% F.L.}	478	478	384	357	357
LOCKED ROTOR{% F.L.}	396	396	313	310	310
FULL LOAD{LB-FT}	6	6	6.1	7.4	7.4

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
CF40	D3P2D	3	DE	182T

ORDER NO.	19929	LINE NO.	
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MPI:	121141	121142	121143	122567	122568
HP:	3	3	3	3	3
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	89.5	89.5	88.3	86.4	86.4
FULL	89.5	89.5	88.5	87.5	87.5
3/4	90	90	90	89.2	89.2
1/2	88.7	88.7	89.4	89.2	89.2
1/4	82.5	82.5	84.7	84.9	84.9
POWER FACTOR (%):					
S.F.	82.2	82.2	84.9	85.4	85.4
FULL	80	80	83.6	83.7	83.7
3/4	73.7	73.7	79.5	79.1	79.1
1/2	61.8	61.8	69.8	68.8	68.8
1/4	39.9	39.9	48.4	46.5	46.5
NO LOAD	6.6	6.6	7.2	6.5	6.5
LOCKED ROTOR	53.6	53.6	52.2	58.2	58.2
AMPS:					
S.F.	4.4	8.8	9.5	5.3	10.6
FULL	3.9	7.8	8.4	4.6	9.3
3/4	3.2	6.3	6.5	3.6	7.2
1/2	2.6	5.1	5	2.8	5.5
1/4	2.1	4.3	3.8	2.2	4.3
NO LOAD	2	4	3.4	2	3.9
LOCKED ROTOR	31	62	55	28.8	58
NEMA CODE LETTER	K	K	H	H	H
NEMA DESIGN LETTER	B	B	B	#	#
FULL LOAD RPM	1770	1770	1760	1460	1460
NEMA NOMINAL EFFICIENCY (%)	89.5	89.5	88.5	87.5	87.5
GUARANTEED EFFICIENCY (%)	87.5	87.5	86.5	85.5	85.5
MAX KVAR	1.4	1.4	1	1.1	1.1
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	13	13	18	16	16
SOUND PRESSURE (DBA @ 1M)	58	58	58	54	54
TORQUES:					
BREAKDOWN{% F.L.}	377	377	299	288	288
LOCKED ROTOR{% F.L.}	240	240	186	189	189
FULL LOAD{LB-FT}	8.9	8.9	8.9	10.8	10.8

The Above Data Is Typical, Sinewave Power Unless Noted Otherwise

NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DE82	8P10P2C	3	CE	215T

ORDER NO.	LINE NO.
21162	

MPI:	67681
HP:	10
POLES:	4
VOLTS:	460
HZ:	60
SERVICE FACTOR:	1.15
EFFICIENCY (%):	
S.F.	91.1
FULL	91.7
3/4	92.7
1/2	92.4
1/4	88.7
POWER FACTOR (%):	
S.F.	86.2
FULL	85.3
3/4	82.1
1/2	74.6
1/4	54
NO LOAD	6.1
LOCKED ROTOR	44.1
AMPS:	
S.F.	13.7
FULL	12
3/4	9.2
1/2	6.8
1/4	4.9
NO LOAD	4.1
LOCKED ROTOR	81
NEMA CODE LETTER	H
NEMA DESIGN LETTER	B
FULL LOAD RPM	1760
NEMA NOMINAL EFFICIENCY (%)	91.7
GUARANTEED EFFICIENCY (%)	90.2
MAX KVAR	2.8
AMBIENT (°C)	40
ALTITUDE (FASL)	3300
SAFE STALL TIME-HOT (SEC)	24
SOUND PRESSURE (DBA @ 1M)	57
TORQUES:	
BREAKDOWN{% F.L.}	301
LOCKED ROTOR{% F.L.}	235
FULL LOAD{LB-FT}	29.8

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DC20	D5PA2A	3	DE	184T

ORDER NO.	21463	LINE NO.	
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MPI:	136135	136136	136137
HP:	5	5	5
POLES:	4	4	4
VOLTS:	460	230	208
HZ:	60	60	60
SERVICE FACTOR:	1.15	1.15	1.15
EFFICIENCY (%):			
S.F.	88.7	88.7	86.7
FULL	89.5	89.5	87.5
3/4	90.5	90.5	90.2
1/2	90.1	90.1	90.7
1/4	85.5	85.5	87.7
POWER FACTOR (%):			
S.F.	85	85	87
FULL	83.1	83.1	86.1
3/4	77.9	77.9	82.9
1/2	67	67	75.2
1/4	44.4	44.4	54.5
NO LOAD	6	6	6.5
LOCKED ROTOR	54.3	54.3	52.8
AMPS:			
S.F.	7.1	14.3	15.8
FULL	6.3	12.6	13.8
3/4	5	10	10.4
1/2	3.9	7.8	7.6
1/4	3.1	6.2	5.4
NO LOAD	2.8	5.6	4.6
LOCKED ROTOR	45	90	79
NEMA CODE LETTER	J	J	G
NEMA DESIGN LETTER	B	B	B
FULL LOAD RPM	1760	1760	1750
NEMA NOMINAL EFFICIENCY (%)	89.5	89.5	87.5
GUARANTEED EFFICIENCY (%)	87.5	87.5	85.5
MAX KVAR	1.9	1.9	1.4
AMBIENT (°C)	40	40	40
ALTITUDE (FASL)	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	10	10	13
SOUND PRESSURE (DBA @ 1M)	58	58	58
TORQUES:			
BREAKDOWN{% F.L.}	333	333	264
LOCKED ROTOR{% F.L.}	220	220	171
FULL LOAD{LB-FT}	14.9	14.9	15

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DB51	D10P2D	3	DE	215T

ORDER NO.	20647	LINE NO.	
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MPI:	123458	128924	129470	133921	129472
HP:	10	10	10	10	10
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	92	92	90.6	88.9	88.9
FULL	91.7	91.7	91	90.2	90.2
3/4	93.1	93.1	92.8	92.1	92.1
1/2	92.6	92.6	92.9	92.7	92.7
1/4	88.9	88.9	90.2	90.5	90.5
POWER FACTOR (%):					
S.F.	86	86	86.8	87	87
FULL	85	85	86.6	86.7	86.7
3/4	81.4	81.4	84.8	84.5	84.5
1/2	73.4	73.4	79.6	78.4	78.4
1/4	52.3	52.3	61.7	59.4	59.4
NO LOAD	5.7	5.7	6.4	5.5	5.5
LOCKED ROTOR	44.7	44.7	43.8	46.9	46.9
AMPS:					
S.F.	13.6	27.2	30	16.9	34
FULL	11.9	23.8	26.3	14.5	29
3/4	9.3	18.5	19.7	10.9	21.8
1/2	6.9	13.8	14	7.8	15.6
1/4	5	10.1	9.3	5.3	10.5
NO LOAD	4.3	8.5	7.2	4.2	8.4
LOCKED ROTOR	84	168	146	79	158
NEMA CODE LETTER	H	H	F	F	F
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1765	1765	1755	1455	1455
NEMA NOMINAL EFFICIENCY (%)	91.7	91.7	91	90.2	90.2
GUARANTEED EFFICIENCY (%)	90.2	90.2	89.5	88.5	88.5
MAX KVAR	2.9	2.9	2.2	2.3	2.3
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	23	23	30	26	26
SOUND PRESSURE (DBA @ 1M)	58	58	58	54	54
TORQUES:					
BREAKDOWN{% F.L.}	316	316	247	248	248
LOCKED ROTOR{% F.L.}	246	246	193	190	190
FULL LOAD{LB-FT}	29.7	29.7	29.9	36.1	36.1

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DT58	D15P2D	3	DE	254T

ORDER NO.	22240	LINE NO.	
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MPI:	152056	152057	152058	152059	152060
HP:	15	15	15	15	15
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	92.5	92.5	91.3	89.7	89.7
FULL	93	93	91.7	91	91
3/4	93.5	93.5	93.4	92.7	92.7
1/2	92.9	92.9	93.5	93.2	93.2
1/4	89.3	89.3	90.9	91	91
POWER FACTOR (%):					
S.F.	84.1	84.1	85	84.7	84.7
FULL	83.2	83.2	85.4	84.8	84.8
3/4	79.7	79.7	84.4	83	83
1/2	71	71	79.4	76.5	76.5
1/4	49.8	49.8	62.3	57.1	57.1
NO LOAD	5.3	5.3	6.2	5	5
LOCKED ROTOR	46.4	46.4	45.7	48.1	48.1
AMPS:					
S.F.	20.8	42	46	25.8	52
FULL	18.2	36	40	22	44
3/4	14.1	28.3	29.5	16.6	33
1/2	10.6	21.3	20.9	11.9	23.8
1/4	7.9	15.8	13.7	8.2	16.4
NO LOAD	6.8	13.6	10.3	6.6	13.2
LOCKED ROTOR	112	225	198	104	207
NEMA CODE LETTER	G	G	E	E	E
NEMA DESIGN LETTER	B	B	#	#	#
FULL LOAD RPM	1775	1775	1770	1470	1470
NEMA NOMINAL EFFICIENCY (%)	93	93	91.7	91	91
GUARANTEED EFFICIENCY (%)	91.7	91.7	90.2	89.5	89.5
MAX KVAR	4.6	4.6	3.2	3.7	3.7
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30	30	30	30
SOUND PRESSURE (DBA @ 1M)	64	64	64	60	60
TORQUES:					
BREAKDOWN{% F.L.}	251	251	199	199	199
LOCKED ROTOR{% F.L.}	236	236	186	178	178
FULL LOAD{LB-FT}	44.3	44.3	44.5	53.6	53.6

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DC20	D5PA2A	3	DE	184T

ORDER NO.	21463	LINE NO.	
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MPI:	136135	136136	136137
HP:	5	5	5
POLES:	4	4	4
VOLTS:	460	230	208
HZ:	60	60	60
SERVICE FACTOR:	1.15	1.15	1.15
EFFICIENCY (%):			
S.F.	88.7	88.7	86.7
FULL	89.5	89.5	87.5
3/4	90.5	90.5	90.2
1/2	90.1	90.1	90.7
1/4	85.5	85.5	87.7
POWER FACTOR (%):			
S.F.	85	85	87
FULL	83.1	83.1	86.1
3/4	77.9	77.9	82.9
1/2	67	67	75.2
1/4	44.4	44.4	54.5
NO LOAD	6	6	6.5
LOCKED ROTOR	54.3	54.3	52.8
AMPS:			
S.F.	7.1	14.3	15.8
FULL	6.3	12.6	13.8
3/4	5	10	10.4
1/2	3.9	7.8	7.6
1/4	3.1	6.2	5.4
NO LOAD	2.8	5.6	4.6
LOCKED ROTOR	45	90	79
NEMA CODE LETTER	J	J	G
NEMA DESIGN LETTER	B	B	B
FULL LOAD RPM	1760	1760	1750
NEMA NOMINAL EFFICIENCY (%)	89.5	89.5	87.5
GUARANTEED EFFICIENCY (%)	87.5	87.5	85.5
MAX KVAR	1.9	1.9	1.4
AMBIENT (°C)	40	40	40
ALTITUDE (FASL)	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	10	10	13
SOUND PRESSURE (DBA @ 1M)	58	58	58
TORQUES:			
BREAKDOWN{% F.L.}	333	333	264
LOCKED ROTOR{% F.L.}	220	220	171
FULL LOAD{LB-FT}	14.9	14.9	15

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
AS72	H32P2D	3	CTE	145T

ORDER NO.	13535	LINE NO.	
-----------	-------	----------	--

MPI:	66778	66779	122883	113147	122884
HP:	1.5	1.5	1.5	1.5	1.5
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	86.8	86.8	85.7	83.7	83.7
FULL	86.5	86.5	85.5	84	84
3/4	86.5	86.5	86.7	86.1	86.1
1/2	83.9	83.9	85.1	85.1	85.1
1/4	75.2	75.2	77.6	78.3	78.3
POWER FACTOR (%):					
S.F.	79.2	79.2	83.1	84	84
FULL	75.9	75.9	80.6	81.3	81.3
3/4	67.6	67.6	73.6	74.1	74.1
1/2	54.4	54.4	61.3	61.4	61.4
1/4	34.8	34.8	40.3	39.8	39.8
NO LOAD	7.9	7.9	8.4	7.7	7.7
LOCKED ROTOR	63.5	63.5	62.1	68.7	68.7
AMPS:					
S.F.	2.3	4.7	5	2.8	5.6
FULL	2.1	4.3	4.5	2.5	5
3/4	1.8	3.6	3.6	2	4
1/2	1.5	3.1	3	1.6	3.3
1/4	1.3	2.7	2.5	1.4	2.7
NO LOAD	1.3	2.6	2.3	1.3	2.6
LOCKED ROTOR	19.8	40	35	17.8	36
NEMA CODE LETTER	M	M	K	J	J
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1755	1755	1740	1440	1440
NEMA NOMINAL EFFICIENCY (%)	86.5	86.5	85.5	84	84
GUARANTEED EFFICIENCY (%)	84	84	82.5	81.5	81.5
MAX KVAR	0.9	0.9	0.7	0.7	0.7
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	15	15	20	20	20
SOUND PRESSURE (DBA @ 1M)	54	54	54	50	50
TORQUES:					
BREAKDOWN{% F.L.}	504	504	402	378	378
LOCKED ROTOR{% F.L.}	383	383	300	306	306
FULL LOAD{LB-FT}	4.5	4.5	4.5	5.5	5.5

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NIDEC MOTOR CORPORATION

MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DF08	H7P2D	3	CTE	213T

ORDER NO.	21184	LINE NO.	
-----------	-------	----------	--

MPI:	65616	65617	68127	123483	123484
HP:	7.5	7.5	7.5	7.5	7.5
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1	1
EFFICIENCY (%):					
S.F.	91	91	89.7		
FULL	91.7	91.7	90.2	88.5	88.5
3/4	92.1	92.1	92	91.2	91.2
1/2	91.3	91.3	91.9	91.7	91.7
1/4	86.7	86.7	88.5	88.8	88.8
POWER FACTOR (%):					
S.F.	84.4	84.4	86.2		
FULL	82.8	82.8	85.7	85.4	85.4
3/4	78.2	78.2	83.2	82.2	82.2
1/2	68.4	68.4	76.7	74.5	74.5
1/4	46.5	46.5	57.6	53.5	53.5
NO LOAD	5.9	5.9	6.8	5.6	5.6
LOCKED ROTOR	45.2	45.2	44.4	47.7	47.7
AMPS:					
S.F.	10.5	21	23.1		
FULL	9.3	18.6	20.1	11.2	22.5
3/4	7.3	14.6	15.2	8.5	17
1/2	5.6	11.2	11	6.2	12.4
1/4	4.4	8.7	7.6	4.5	8.9
NO LOAD	3.9	7.8	6.2	3.8	7.6
LOCKED ROTOR	65	131	114	62	123
NEMA CODE LETTER	H	H	F	F	F
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1765	1765	1755	1455	1455
NEMA NOMINAL EFFICIENCY (%)	91.7	91.7	90.2	88.5	88.5
GUARANTEED EFFICIENCY (%)	90.2	90.2	88.5	86.5	86.5
MAX KVAR	2.6	2.6	1.9	2.1	2.1
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	22	22	30	25	25
SOUND PRESSURE (DBA @ 1M)	57	57	57	53	53
TORQUES:					
BREAKDOWN{% F.L.}	324	324	255	255	255
LOCKED ROTOR{% F.L.}	247	247	194	191	191
FULL LOAD{LB-FT}	22.3	22.3	22.4	27.1	27.1

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DC74	D60P2E	3	RE	364T

ORDER NO.	20764	LINE NO.	
-----------	-------	----------	--

MPI:	131896	131897	131898	131899
HP:	60	60	60	60
POLES:	4	4	4	4
VOLTS:	460	230	380	190
HZ:	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15
EFFICIENCY (%):				
S.F.	94.7	94.7	92.8	92.8
FULL	95	95	93.6	93.6
3/4	95.3	95.3	94.9	94.9
1/2	95	95	95.2	95.2
1/4	92.3	92.3	93.7	93.7
POWER FACTOR (%):				
S.F.	85.9	85.9	85.2	85.2
FULL	85.7	85.7	86	86
3/4	83.8	83.8	85.7	85.7
1/2	77.5	77.5	81.6	81.6
1/4	58.5	58.5	65.1	65.1
NO LOAD	4.9	4.9	4.5	4.5
LOCKED ROTOR	32.9	32.9	34.4	34.4
AMPS:				
S.F.	79	159	99	198
FULL	69	138	85	169
3/4	53	105	63	125
1/2	38	76	44	88
1/4	26	52	27.9	56
NO LOAD	20.4	40.7	19.9	39.8
LOCKED ROTOR	422	844	387.6	775.2
NEMA CODE LETTER	G	G	D	D
NEMA DESIGN LETTER	B	B	#	#
FULL LOAD RPM	1785	1785	1480	1480
NEMA NOMINAL EFFICIENCY (%)	95	95	93.6	93.6
GUARANTEED EFFICIENCY (%)	94.1	94.1	92.4	92.4
MAX KVAR	13.8	13.8	11.1	11.1
AMBIENT (°C)	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30	30	30
SOUND PRESSURE (DBA @ 1M)	66	66	62	62
TORQUES:				
BREAKDOWN{% F.L.}	213	213	168	168
LOCKED ROTOR{% F.L.}	166	166	129	129
FULL LOAD{LB-FT}	176.5	176.5	212.9	212.9

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Specifications: EM2515T

SPEC. NUMBER:	39K057W915
CATALOG NUMBER:	EM2515T
FL AMPS:	47/23.5
208V AMPS:	49.4
BEARING-DRIVE-END:	6309
BEARING-OPP-DRIVE-END:	6208
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	93
ENCLOSURE:	OPSB
FRAME:	256T
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	H
SPEED [rpm]:	1765
OUTPUT [hp]:	20
PHASE:	3
POWER-FACTOR:	86
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
VOLTAGE:	230/460

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SPEC. NUMBER:	42E211W587
CATALOG NUMBER:	EM2547T
FL AMPS:	136/68
208V AMPS:	144
BEARING-DRIVE-END:	6313
BEARING-OPP-DRIVE-END:	6311
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	95
ENCLOSURE:	OPSB
FRAME:	364T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1775
OUTPUT [hp]:	60
PHASE:	3
POWER-FACTOR:	87
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2531T

SPEC. NUMBER:	40G048X793
CATALOG NUMBER:	EM2531T
FL AMPS:	60/30
208V AMPS:	--
BEARING-DRIVE-END:	6311
BEARING-OPP-DRIVE-END:	6309
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	93.6
ENCLOSURE:	OPSB
FRAME:	284T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1770
OUTPUT [hp]:	25
PHASE:	3
POWER-FACTOR:	82
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2551T

SPEC. NUMBER:	44E196W013G1
CATALOG NUMBER:	EM2551T
FL AMPS:	174/87
208V AMPS:	--
BEARING-DRIVE-END:	6313
BEARING-OPP-DRIVE-END:	6312
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	95
ENCLOSURE:	OPSB
FRAME:	365T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1775
OUTPUT [hp]:	75
PHASE:	3
POWER-FACTOR:	85
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2531T

SPEC. NUMBER:	40G048X793
CATALOG NUMBER:	EM2531T
FL AMPS:	60/30
208V AMPS:	--
BEARING-DRIVE-END:	6311
BEARING-OPP-DRIVE-END:	6309
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	93.6
ENCLOSURE:	OPSB
FRAME:	284T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1770
OUTPUT [hp]:	25
PHASE:	3
POWER-FACTOR:	82
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2555T-8

SPEC. NUMBER:	44E193W087G1
CATALOG NUMBER:	EM2555T-8
FL AMPS:	263
208V AMPS:	264
BEARING-DRIVE-END:	6316
BEARING-OPP-DRIVE-END:	6312
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	95.4
ENCLOSURE:	OPSB
FRAME:	404T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1780
OUTPUT [hp]:	100
PHASE:	3
POWER-FACTOR:	85
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	200

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Specifications: EM2531T

SPEC. NUMBER:	40G048X793
CATALOG NUMBER:	EM2531T
FL AMPS:	60/30
208V AMPS:	--
BEARING-DRIVE-END:	6311
BEARING-OPP-DRIVE-END:	6309
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	93.6
ENCLOSURE:	OPSB
FRAME:	284T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1770
OUTPUT [hp]:	25
PHASE:	3
POWER-FACTOR:	82
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2551T

SPEC. NUMBER:	44E196W013G1
CATALOG NUMBER:	EM2551T
FL AMPS:	174/87
208V AMPS:	--
BEARING-DRIVE-END:	6313
BEARING-OPP-DRIVE-END:	6312
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	95
ENCLOSURE:	OPSB
FRAME:	365T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1775
OUTPUT [hp]:	75
PHASE:	3
POWER-FACTOR:	85
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2531T

SPEC. NUMBER:	40G048X793
CATALOG NUMBER:	EM2531T
FL AMPS:	60/30
208V AMPS:	--
BEARING-DRIVE-END:	6311
BEARING-OPP-DRIVE-END:	6309
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	93.6
ENCLOSURE:	OPSB
FRAME:	284T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1770
OUTPUT [hp]:	25
PHASE:	3
POWER-FACTOR:	82
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2551T

SPEC. NUMBER:	44E196W013G1
CATALOG NUMBER:	EM2551T
FL AMPS:	174/87
208V AMPS:	--
BEARING-DRIVE-END:	6313
BEARING-OPP-DRIVE-END:	6312
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	95
ENCLOSURE:	OPSB
FRAME:	365T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1775
OUTPUT [hp]:	75
PHASE:	3
POWER-FACTOR:	85
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2515T

SPEC. NUMBER:	39K057W915
CATALOG NUMBER:	EM2515T
FL AMPS:	47/23.5
208V AMPS:	49.4
BEARING-DRIVE-END:	6309
BEARING-OPP-DRIVE-END:	6208
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	93
ENCLOSURE:	OPSB
FRAME:	256T
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	H
SPEED [rpm]:	1765
OUTPUT [hp]:	20
PHASE:	3
POWER-FACTOR:	86
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
VOLTAGE:	230/460

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SPEC. NUMBER:	42E211W587
CATALOG NUMBER:	EM2547T
FL AMPS:	136/68
208V AMPS:	144
BEARING-DRIVE-END:	6313
BEARING-OPP-DRIVE-END:	6311
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	95
ENCLOSURE:	OPSB
FRAME:	364T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1775
OUTPUT [hp]:	60
PHASE:	3
POWER-FACTOR:	87
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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Specifications: EM2515T

SPEC. NUMBER:	39K057W915
CATALOG NUMBER:	EM2515T
FL AMPS:	47/23.5
208V AMPS:	49.4
BEARING-DRIVE-END:	6309
BEARING-OPP-DRIVE-END:	6208
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	93
ENCLOSURE:	OPSB
FRAME:	256T
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	H
SPEED [rpm]:	1765
OUTPUT [hp]:	20
PHASE:	3
POWER-FACTOR:	86
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
VOLTAGE:	230/460

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SPEC. NUMBER:	42E211W587
CATALOG NUMBER:	EM2547T
FL AMPS:	136/68
208V AMPS:	144
BEARING-DRIVE-END:	6313
BEARING-OPP-DRIVE-END:	6311
CUSTOMER-PART-NUMBER:	--
DESIGN CODE:	B
DOE-CODE:	010A
FL EFFICIENCY:	95
ENCLOSURE:	OPSB
FRAME:	364T
GREASE:	POLYREX EM
HERTZ:	60
INSULATION-CLASS:	F
KVA-CODE:	G
MAX. SPACE HEATER TEMP.:	--
SPEED [rpm]:	1775
OUTPUT [hp]:	60
PHASE:	3
POWER-FACTOR:	87
RATING:	40C AMB-CONT
SERIAL-NUMBER:	--
SERVICE FACTOR:	1.15
SPACE-HEATER-AMPS:	--
SPACE-HEATER-VOLTS:	--
VOLTAGE:	230/460

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DB40	D7P2DC	3	DE	213TC

ORDER NO.	20636	LINE NO.	
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MPI:	128016	128017	128018	128019	128020
HP:	7.5	7.5	7.5	7.5	7.5
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	91	91	89.5	87.5	87.5
FULL	91	91	90.2	88.5	88.5
3/4	92.2	92.2	91.8	91.1	91.1
1/2	91.6	91.6	92	91.8	91.8
1/4	87.5	87.5	88.9	89.3	89.3
POWER FACTOR (%):					
S.F.	84.5	84.5	85.6	85.7	85.7
FULL	83.3	83.3	85.3	85.3	85.3
3/4	79.4	79.4	83.4	82.9	82.9
1/2	70.7	70.7	77.7	76.1	76.1
1/4	49.4	49.4	59.5	56.4	56.4
NO LOAD	6	6	6.8	5.7	5.7
LOCKED ROTOR	44.9	44.9	44	47.3	47.3
AMPS:					
S.F.	10.5	21	23.3	13	26.1
FULL	9.3	18.5	20.2	11.3	22.5
3/4	7.2	14.4	15.2	8.4	16.9
1/2	5.4	10.8	10.9	6.1	12.2
1/4	4.1	8.1	7.3	4.2	8.4
NO LOAD	3.5	7.1	5.8	3.5	6.9
LOCKED ROTOR	60	120	105	56	113
NEMA CODE LETTER	H	H	F	F	F
NEMA DESIGN LETTER	B	B	B	#	#
FULL LOAD RPM	1765	1765	1755	1450	1450
NEMA NOMINAL EFFICIENCY (%)	91	91	90.2	88.5	88.5
GUARANTEED EFFICIENCY (%)	89.5	89.5	88.5	86.5	86.5
MAX KVAR	2.4	2.4	1.8	2	1.9
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	25	25	30	29	29
SOUND PRESSURE (DBA @ 1M)	58	58	58	54	54
TORQUES:					
BREAKDOWN{% F.L.}	294	294	231	231	231
LOCKED ROTOR{% F.L.}	225	225	176	174	174
FULL LOAD{LB-FT}	22.3	22.3	22.4	27.1	27.1

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DC41	D50P2DS	3	DE	326TS

ORDER NO.	20735	LINE NO.	
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MPI:	131098	144748	144747	131101	144746
HP:	50	50	50	50	50
POLES:	4	4	4	4	4
VOLTS:	460	230	208	380	190
HZ:	60	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15	1.15
EFFICIENCY (%):					
S.F.	94	94	92.6	91.2	91.2
FULL	94.5	94.5	93.6	92.4	92.4
3/4	95.1	95.1	94.7	94.3	94.3
1/2	95.1	95.1	95	95	95
1/4	92.9	92.9	93.5	94	94
POWER FACTOR (%):					
S.F.	88.1	88.1	87.4	87.6	87.6
FULL	88	88	88	88.2	88.2
3/4	86.4	86.4	87.9	87.9	87.9
1/2	80.8	80.8	84.6	84.2	84.2
1/4	62.9	62.9	70.4	69.1	69.1
NO LOAD	4.9	4.9	5.5	4.5	4.5
LOCKED ROTOR	39.7	39.7	39.5	41.2	41.2
AMPS:					
S.F.	65	130	147	82	163
FULL	56	113	126	70	139
3/4	43	85	93	51	103
1/2	30	61	64	35	71
1/4	20	40	39	21.8	44
NO LOAD	15.1	30.3	26.2	14.9	29.8
LOCKED ROTOR	360	720	632	339	678
NEMA CODE LETTER	G	G	E	E	E
NEMA DESIGN LETTER	B	B	B	B	B
FULL LOAD RPM	1780	1780	1775	1470	1470
NEMA NOMINAL EFFICIENCY (%)	94.5	94.5	93.6	92.4	92.4
GUARANTEED EFFICIENCY (%)	93.6	93.6	92.4	91	91
MAX KVAR	10.2	10.3	8	8.3	8.3
AMBIENT (°C)	40	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	19	19	26	22	22
SOUND PRESSURE (DBA @ 1M)	64	64	64	60	60
TORQUES:					
BREAKDOWN{% F.L.}	253	253	200	200	200
LOCKED ROTOR{% F.L.}	196	196	157	150	150
FULL LOAD{LB-FT}	147.6	147.6	148.1	178.4	178.4

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MOTOR PERFORMANCE

MODEL NO.	CATALOG NO.	PHASE	TYPE	FRAME
DC73	D50P3E	3	RE	365T

ORDER NO.	20763	LINE NO.	
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MPI:	131345	131346	131347	131349
HP:	50	50	50	50
POLES:	6	6	6	6
VOLTS:	460	230	380	190
HZ:	60	60	50	50
SERVICE FACTOR:	1.15	1.15	1.15	1.15
EFFICIENCY (%):				
S.F.	94	94	91.3	91.3
FULL	94.5	94.5	92.4	92.4
3/4	95.1	95.1	94.3	94.3
1/2	94.9	94.9	94.9	94.9
1/4	92.6	92.6	93.7	93.7
POWER FACTOR (%):				
S.F.	86	86	84.5	84.5
FULL	86.3	86.3	85.9	85.9
3/4	85.3	85.3	86.4	86.4
1/2	80.5	80.5	83.6	83.6
1/4	64.4	64.4	70.3	70.3
NO LOAD	5.5	5.5	5.2	5.2
LOCKED ROTOR	34.2	34.2	36.7	36.7
AMPS:				
S.F.	67	133	85	169
FULL	57	115	71	143
3/4	43	87	52	104
1/2	31	61	36	71
1/4	19.6	39	21.5	43
NO LOAD	14.2	28.4	13.9	27.8
LOCKED ROTOR	351	702	326.7	652.3
NEMA CODE LETTER	G	G	D	D
NEMA DESIGN LETTER	B	B	#	#
FULL LOAD RPM	1190	1190	985	985
NEMA NOMINAL EFFICIENCY (%)	94.5	94.5	92.4	92.4
GUARANTEED EFFICIENCY (%)	93.6	93.6	91	91
MAX KVAR	9.6	9.6	7.8	7.8
AMBIENT (°C)	40	40	40	40
ALTITUDE (FASL)	3300	3300	3300	3300
SAFE STALL TIME-HOT (SEC)	30	30	30	30
SOUND PRESSURE (DBA @ 1M)	60	60	56	56
TORQUES:				
BREAKDOWN{% F.L.}	218	218	171	171
LOCKED ROTOR{% F.L.}	154	154	124	124
FULL LOAD{LB-FT}	220.8	220.8	266.5	266.5

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in

Case No(s). 13-0949-EL-EEC

Summary: Amended Application to Commit Energy Efficiency/Peak Demand Reduction Programs of Ohio Edison Company and Springfield Regional Medical Center electronically filed by Ms. Jennifer M. Sybyl on behalf of Ohio Edison Company and Springfield Regional Medical Center