



## Cooling Tower Fan Motor Data

Line No	Qty	Est. Ship Dt.	Part No	Description	Unit Net	Extended Total
000010	1		CUSTOM	37.00KW,1,500,3,50,200L,IC411,Foot		

**Basic Configuration: MEDIUM AC MOTORS / Configuration ID: rcfg1-Q63610**

<u>Power</u> 37 KW	<u>Enclosure</u> IC411	<u>Enclosure Enhancement</u> IP55	<u>Efficiency</u> XE	<u>Frame Size</u> 200L	<u>Duty</u> S1	
<u>Speed (RPM)</u> 1500	<u>Constant HP Speed (RPM)</u> 0	<u>Phase/Hertz/Voltage</u> 3 / 50 / 415	<u>Inverter torque</u>		<u>Ambient (°C)</u> 40	<u>Service Factor</u> 1.15
<u>Division</u>	<u>Class 1, Group / Class 2, Group</u> /	<u>Temp Code</u>	<u>Motor Standard</u> IEC	<u>Design Letter</u> N	<u>Insulation</u> H	<u>Altitude (ft)</u> 8500

**Additional Specifications:**

**Performance**

Balance	Ultra-Standard
Ambient Minimum	-25C
Sound Level dBA	
Customer Application	General Industrial

**Mounting / Flange**

Mounting Orientation	Horizontal
Rotation Facing ODE	Bi-directional
Lead Location	Toward Feet - Down
Mounting Position	B3
Frame Mounting	Foot
Drive Method	Coupled

**Bearing / Seals / Lubrication**

Lube Type	Grease
Grease Type	Exxon Polyrex EM

Grease Fitting Type	Alemite 1610 or Equal
Relief Fitting Type	Keystone
Drive End Seal	Lip
Opposite Drive End Seal	Lip
Seals Lip Material	Nitrile
Grease Fittings Rqd	Y
Bearing Type	Ball

### Enclosure Enhancements

Auto Drain Type	Stainless Steel T-Drain
Frame Ground Rqd	Y
Ground Pad Type	Drilled and Tapped Hole in Frame
Ground Pad Location	On frame on same side as conduit box

### Space Heaters

Space Heater Rated for	1Ph/50-60Hz/200-240V
Space Heater Volts	220
Max Space Heater Temp	Standard(140 Deg C)
Space Heater Qty	1

### Conduit Box / Leads / Connections

Main Box Size	Standard Oversize
Main Conduit Box	Required
Main Conduit Box Material	Cast Iron
Main Conduit Box Location	Standard (Right Side Facing DE)
Terminal Block - Main Leads	Y
Auxiliary Conduit Box 1 Size	Std (180-3/4)
Auxiliary Conduit Box 1 Loc	ODE - Same Side as Main Cbox
Auxiliary Cbox 1 Term Strip	Y
Space Heater To Aux Box 1	Y

### Nameplates / Labels

Nameplate Language	English
Label CSA	Y
Label CE	Y
Label UR	Y

### Paint / Packaging

Paint System	Standard
Paint Color Standard	Reliance
Paint Color	Blue-Green
Reliance Paint Spec No	4824-7-K

### Documentation

Document Unit of Measure	Metric
Doc PDF Format	Y
Certified Motor Outline	Y
Standard Connection Diagram	Y
Doc Renewal Parts	Y
Doc Instruction Manual	Y

Hold for Document Approval R Y

Certified Motor Outline Type Typical Dimension Sheet to be used with Data Transmittal for Certification.

**Reference Information**

Configuration ID rcfg1-Q63610

CST 7 IEC

**Additional Items**

Special Item 1 IP55

**Terms, Conditions, & Warranty**

Additional terms and conditions are located on the Company's website at [www.baldor.com](http://www.baldor.com) and in the 501 catalog. Baldor expressly incorporates the additional terms and conditions into this contract and the terms of sale are conditioned upon the buyer's acceptance of the additional terms and conditions.

The seller assures the purchaser that the articles specified herein were produced in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof.

Baldor Electric Co. warrants these products as described in the product catalog.



**AC Induction Motor Performance Data**

Record # 22231

Typical performance - not guaranteed values

<b>Winding:</b> 12WGX375	<b>Type:</b> 1272M	<b>Enclosure:</b> TEFC
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Nameplate Data				General Characteristics at 415 V, 50 Hz: Single Volt Motor	
Rated Output (KW)	37			Full Load Torque	177 LB-FT
Volts	415			Start Configuration	DOL
Full Load Amps	61			Break Down Torque	456 LB-FT
R.P.M.	1465			Pull-Up Torque	241 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	317 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	380 Amps
Service Factor	1.15			No-load Current	16.2 Amps
NEMA Nom. Eff.	94.1	P.F.	90	Line-line Res. @ 25°C.	0.124 Ohms
Rating - Duty	50C AMB-CONT			Temp. Rise @ Rated Load	73°C
S.F. Amps				Temp. Rise @ S.F. Load	91°C

Load Characteristics at 415 Volts, 50 Hz

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	85	90	87	87	88
Efficiency	91.3	94	94.1	94.1	93.9	92.9	94.1
Speed	1494	1489	1483	1477	1470	1462	1473
Line Amperes	25.4	35.7	48.5	60.5	78.3	95.2	71.2

Baldor Electric Company Fort Smith, Arkansas



Product ID 12F824X375G1 Desc 37KW,1465RPM,3PH,50HZ,D200M,1272M,TEFC,F Class Code CUS Matl Type FERT  
 ENG. 72M 4P TEFC HOR D200M F1 14-2 TBLOCK

Revision A Status PRD/A TDR # 545246 Proprietary No  
 Elec Spec 12WGX375 Prod CFG 12WGX375-C004 Rating 12WGX375-R006 Mech Spec 12F824  
 Type 1272M Prod Type AC MOTOR SA,WS,RA (S CD Diagram CD0006 Layout 12LYF824  
 Enclosure TEFC Mfg Plant BALDOR/COLUMBUS Poles 04 Created Date 06/04/2010  
 Frame D200M Mounting F1 Insulation H Eff Date 06/19/2010  
 Base RG Rotation R Replaced By  
 Leads 3#8

N A M E P L A T E	
CAT.NO.	8,500 F.A.S.L.
SPEC.	12F824X375G1
IEC FRAME	D200M K.W. 37KW TE
VOLTS	415
AMP	61
RPM	1465
HZ	50
SER.F.	1.15 I.P. 55
NEMA-NOM-EFF	94.1 PH 3 CL H
RATING	40C AMB-CONT DES N CODE G
CC	USABLE AT 208V
DE	6312 ODE 6311
SER. #	IEEE 45

Proprietary Reason No Customer Part # Customer Catalog #

Type	Oper #	Text
SI	ALL	*WEATHERPROOF PER S.P.#14-2
SI	7230	*F-1 MTG
SI	9550	*HEATERS
SI	3183	
SI	7160	
SI	7172	
SI	7180	
SI	7230	
SI	9545	
SI	9550	
SI	9550	*USE DYNAPRO SEALER AROUND EP RABBETS



TypeOper # Text

SI 9550 \*USE RED SEALER ON EP & RET SCREW HEADS

SI 9510 \*USE STAINLESS STEEL NAMEPLATE  
 9520  
 9680

SI 7160 \*BRING HTR LEADS INTO AUX KO BOX &  
 7172 CONNECT TO TBS  
 7230  
 9550  
 9620

SI 3183 \*STAMP HTR LABEL FOR 240V AND 0.91A  
 9510  
 9520  
 9550  
 9680

SI 7050 \*OPTION G1: C004/R006

SI 7230 \*OPTION G1: ADD 1-WD5005A02 AND  
 9550 1-HA6370A01 TO KO BOX  
 9620

SI 7230 \*OPTION G1: ADD 3-WD1000B12 TO POWER  
 9550 LEADS  
 9620

SI 7020 \*OPTION G1: CONNECT LEADS TO TERM  
 7230 BLOCK PER SP0079  
 9550

SI 9510 \*OPTION G1: SPL NP STAMPING  
 9520  
 9680

NON-PERFORMANCE TESTS

1 AUTO AUX DEVICE HIPOT  
 2 AUX DEVICE CONT

NO-LOAD TESTS

TEST	VOLTS	HERTZ	AMPS	MAX AMPS	MIN/NOM WATTS	MAX WATTS
NL	460.00	60	18.00	0.00	800.00	0.00

T-Stats and Heater Strips  
 2 WD3008A07  
 E STRIP HTR, 240V, 100W, 28" X 2"