

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 056T17F15659
Catalog No: K1438B
1 1/2, 1800, TEFC, 56C, 3/60/460
General Purpose Farm Duty Motors



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RegalRexnord

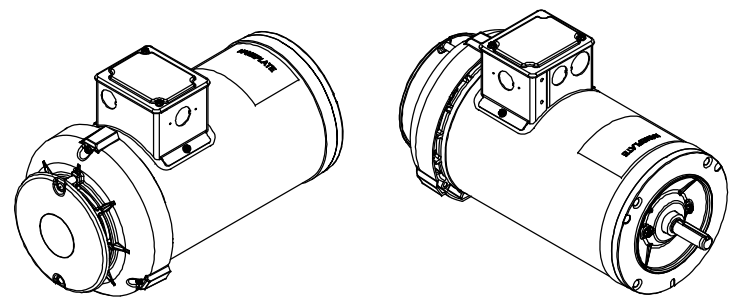
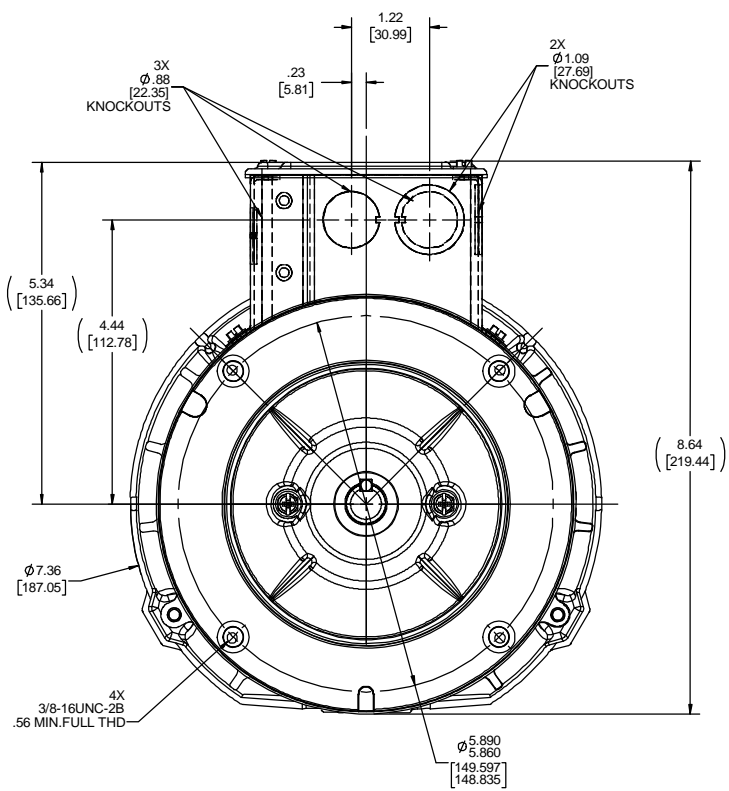
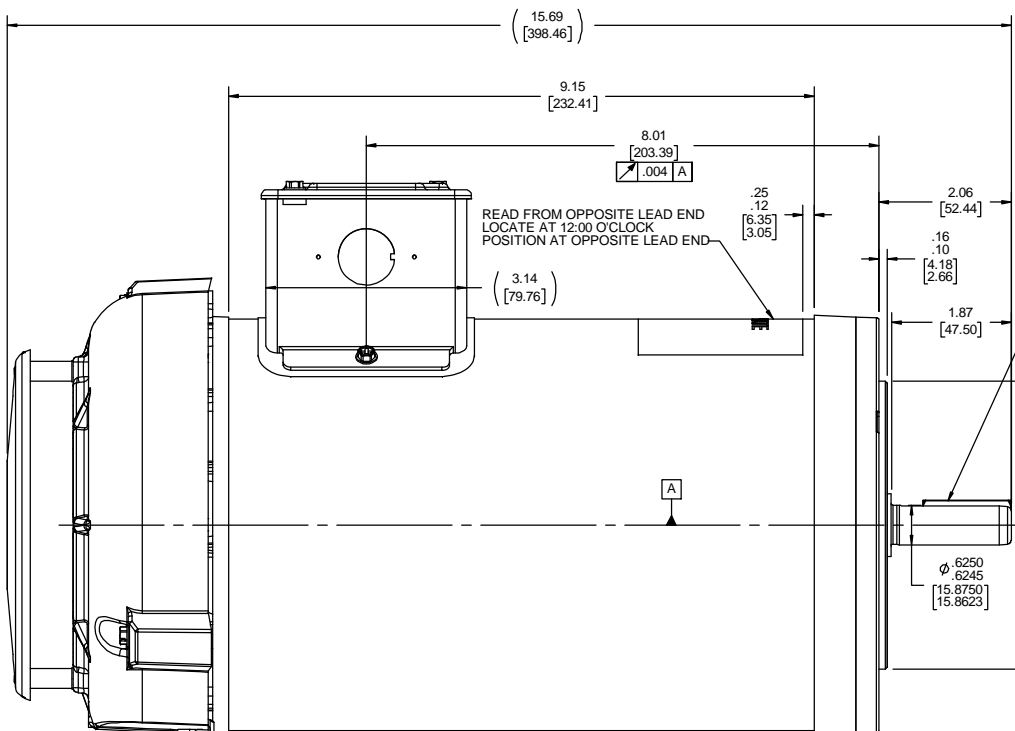
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	460 V
Current	2.3 A	Speed	1725 rpm
Service Factor	1	Phase	3
Efficiency	86.5 %	Power Factor	71
Duty	Continuous	Insulation Class	B
Design Code	A	KVA Code	P
Frame	56C	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Automatic	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Q-LI,ME-INS,AUTO PRT LOCK AND RUN UL REC ST UL REC	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

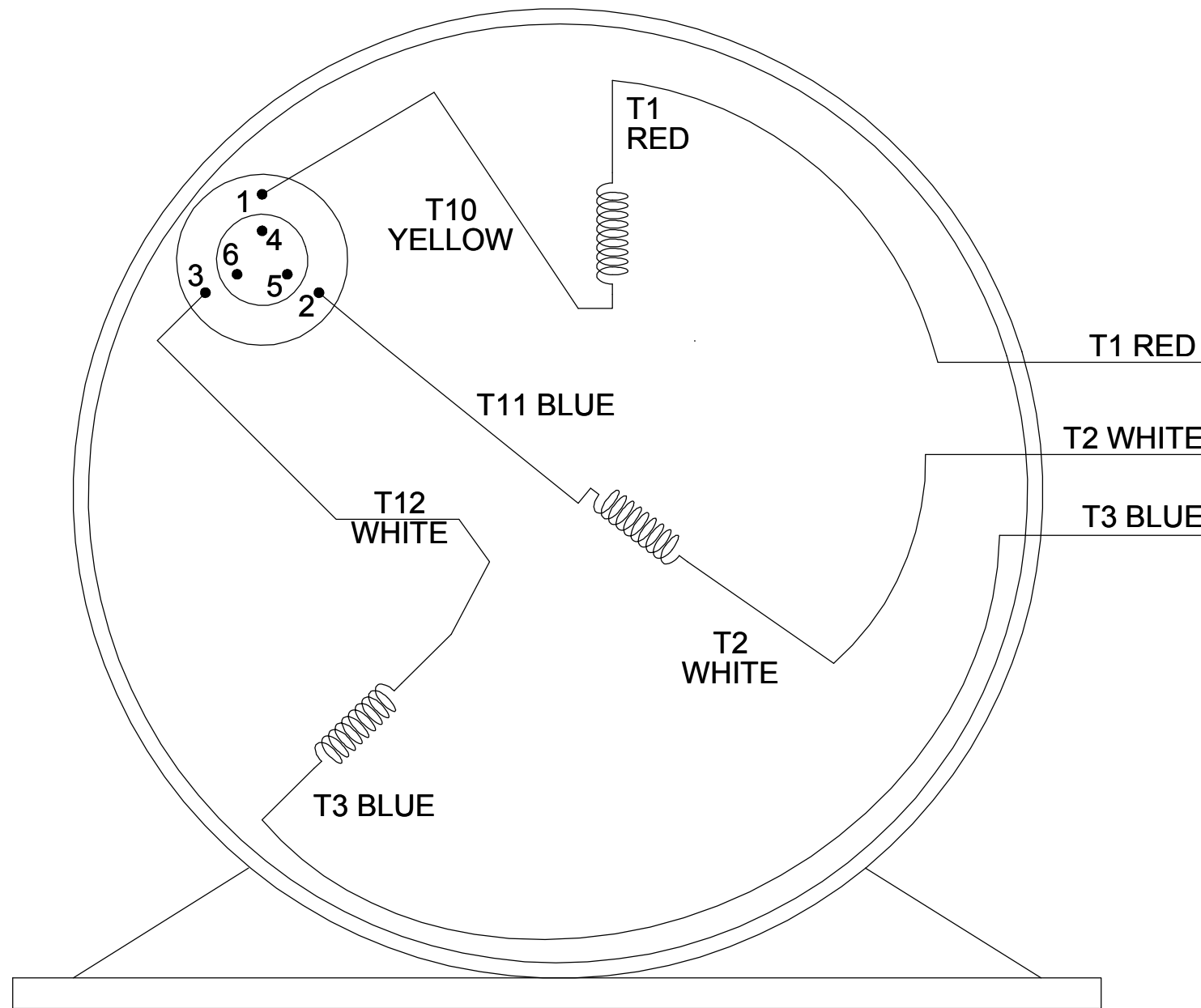
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	7.9 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	14.65 in
Frame Length	8.65 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F3
Connection Drawing	CDTS106	Outline Drawing	OL56100047-001

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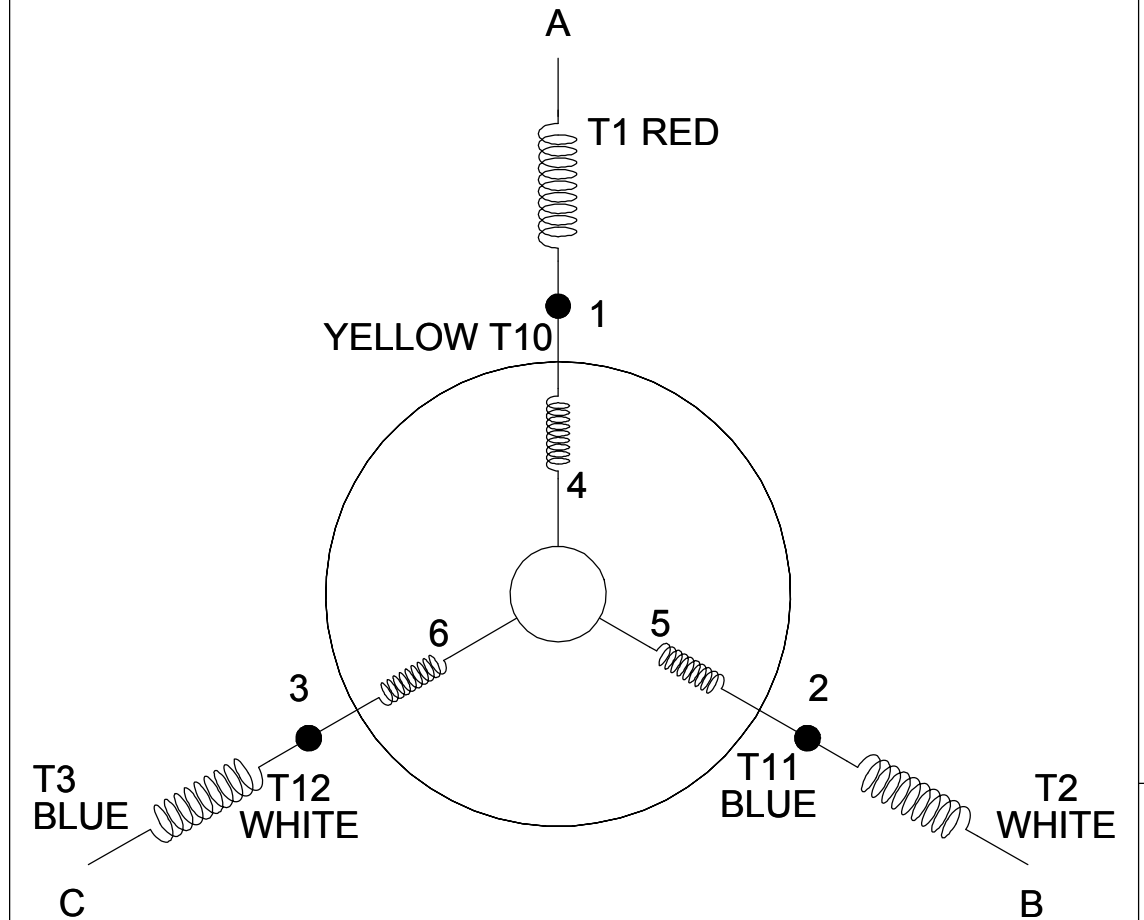
DRAWING REVISION C	REVISION BY KHADHAR	DATE 10/28/2020	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE	DRAWN BY E.VILLA	Regal Beloit America, Inc.
ECO-0193885	APPROVED BY PVR	DATE 10/28/2020	.X ±0.1 [±2.5] 0.5° .XX ±0.02 [±0.51] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DATE 04-06-2016	
ECO DESCRIPTION ADDED DRIP COVER			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [.51]	APPROVED BY	DESCRIPTION OUTLINE 56H FR,TEFC
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. FORMERLY AND CONTAINING OWNERS PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>			MACHINED SURFACES: .125/ 3.2 INCH/ mm SHOWN IN (BRACKETS) m/ my	DATE	PROCESS/FINISH
			THIRD ANGLE PROJECTION	REFERENCE	MATERIAL
			SIZE C	DRAWING NUMBER OL56100047-001	SHEET 1 OF 1

SINGLE VOLTAGE - THREE PHASE WITH OVERLOAD PROTECTOR



VIEW OF TERMINAL END

CCW ROTATION



NOTE:

1. TO REVERSE ROTATION, INTERCHANGE ANY TWO LINE CONNECTIONS TO L1, L2, OR L3.
2. CONNECTION DIAGRAM NAMEPLATE: DD10040-001-CCW; DD10040-002-CW.

DRAWING REVISION E	REVISION BY SHESHI	DATE 03/11/2019
ECO ECO-0162998	APPROVED BY BHARGAVI	DATE 03/11/2019
ECO DESCRIPTION REMOVED T10, T11 & T12 LEAD TERMINATION MARKS		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP			
EDGES: .003/.015 [.076/.381]			
CORNER FILLETS: .02 [.51]			
MACHINED SURFACES: 125/3.2			
mm SHOWN IN [BRACKETS]			

DRAWN BY G. RODRIGUEZ	DATE 07-30-2015
APPROVED BY R. VALENZUELA	DATE 07-30-2015
REFERENCE SKT52A105383CA	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER CDTS106
	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 56T17F15659 A
CONN. DIAGRAM: CDTS106
OUTLINE: OL56100047-001

WINDING#: ZT4256 FR 5
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2&1 1/2	1.12&1.12	1800	1725&1425	56C	TEFC	P	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	2.3&2.7	ACROSS THE LINE	CONTINUOUS	B3	1.0/1.0	40	3300

FULL LOAD EFF: 86.5&85.5	3/4 LOAD EFF: 85.5	1/2 LOAD EFF: 82.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 71&75	3/4 LOAD PF: 62.5	1/2 LOAD PF: 49	84	SQ CAGE IND RUN	1.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	24	21.2 LB-FT 471	26 LB-FT 578	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.14 LB-FT^2	10 LB-FT^2	20 SEC.	2	50 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1215 (MS1000)	ROLLED STEEL
6205	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

DATE: 06/28/2017 07:15:59 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 1/2/2019
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



56T17F15659

Submittal

Data @ 460 V

Motor Load Data

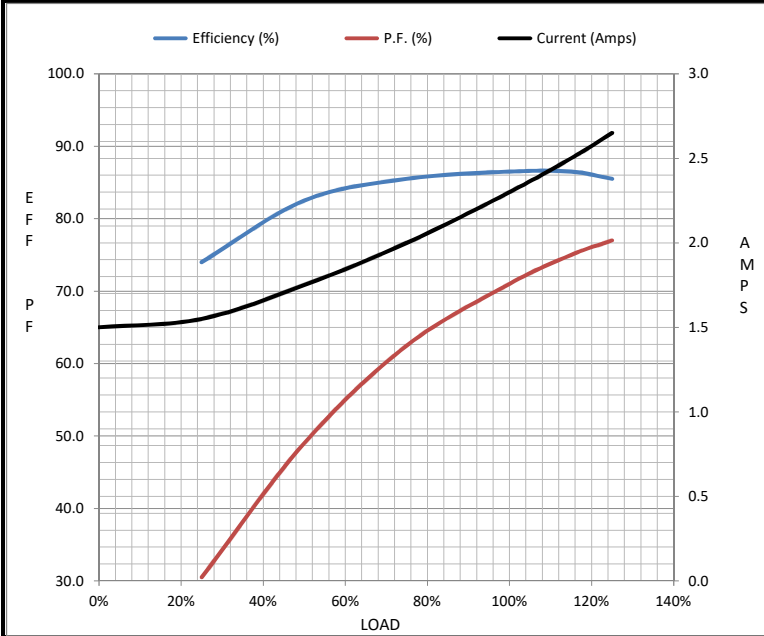
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.50	1.55	1.75	2.00	2.30	2.50	2.65	24.0
Torque (ft-lb)	0.00	1.10	2.20	3.5	4.5	5.2	5.7	21.2
RPM	1800	1790	1780	1765	1755	1,750	1745	0
Efficiency (%)		74.0	82.5	85.5	86.5	86.5	85.5	
P.F. (%)	7.5	30.5	49.0	62.5	71.0	75.0	77.0	69.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	130	1190	1755	1800
Current (Amps)	24.0	23.3	16.0	2.30	1.50
Torque (ft-lb)	21.2	20.2	26.0	4.5	0.00

Information Block

HP	1.5			
Sync. RPM	1800			
Frame	56			
Enclosure	TEFC			
Construction	TS			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	P			
Service Factor	1			
Temp Rise @ FL	35 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3300 feet			
Rotor/Shaft wk ²	0.14 Lb-Ft ²			
Ref Wdg	ZT4256 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	OL56100047-001			
Conn. Diag	CDTS106			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.8380	3.7800	7.1250	7.1630	189.6050



Speed - Torque Curve

