

# PRODUCT INFORMATION PACKET

Model No: 182TTGN6501

Catalog No: U060A

Hazardous Duty® Explosion Proof Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
3600 & 3000 RPM, 182T Frame, EPFC



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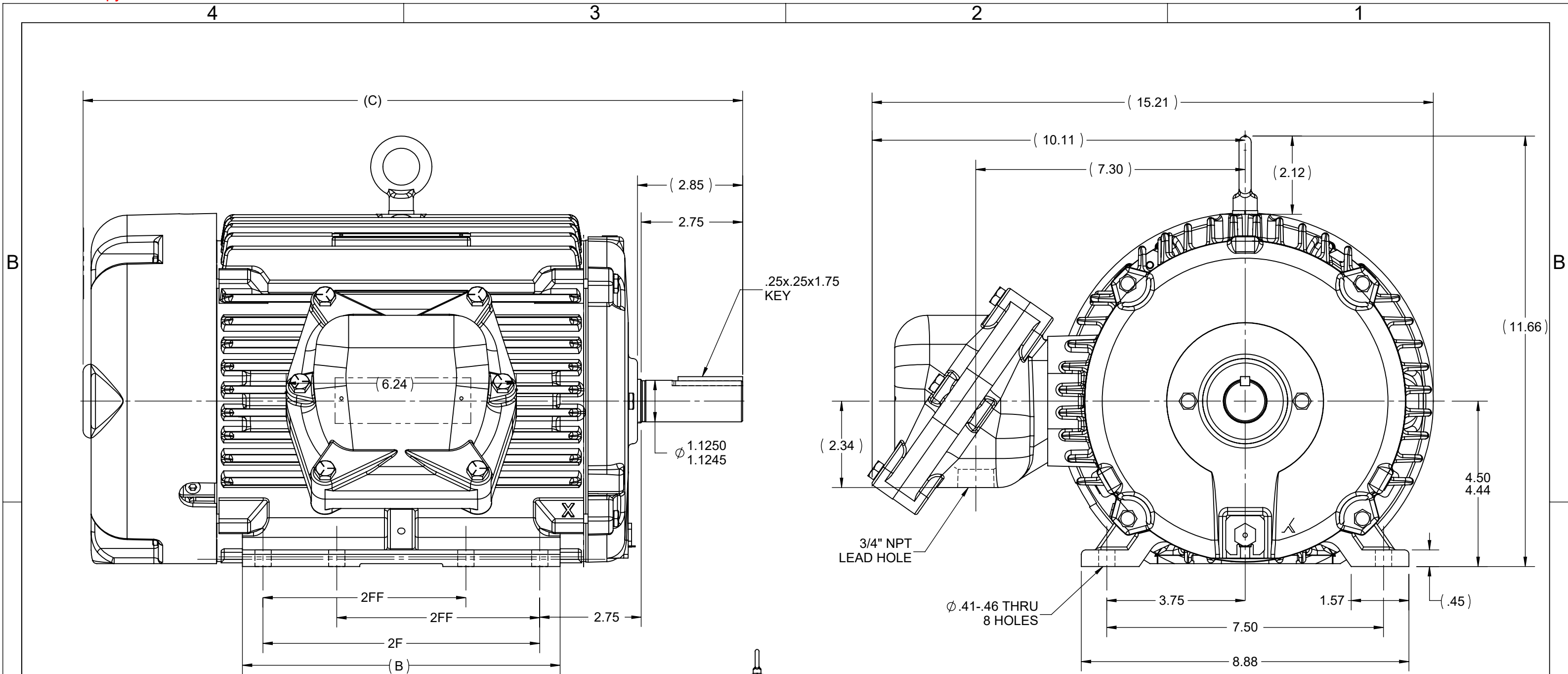
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### Nameplate Specifications

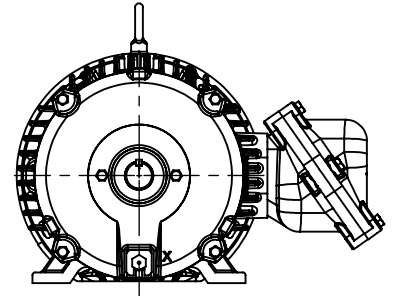
Phase	<b>3</b>	Output HP	<b>3 &amp; 2 Hp</b>
Output KW	<b>2.2 &amp; 1.5 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>3525 &amp; 2935 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>182T</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>87.5 &amp; 85.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>7.6/3.8 &amp; 6.4/3.2 A</b>	Power Factor	<b>85</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>K</b>
Drive End Bearing Size	<b>6206</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>UL Listed; also, UL Certified for Canada</b>	CSA	<b>N</b>
CE	<b>N</b>	IP Code	<b>54</b>
Number of Speeds	<b>1</b>	Hazardous Location	<b>EXP PROOF CL I GR C&amp;D CL II GR F&amp;G T3B</b>

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>3.56 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Overall Length	<b>15.87 in</b>
Frame Length	<b>8.00 in</b>	Shaft Diameter	<b>1.125 in</b>
Shaft Extension	<b>2.85 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>EE7308T</b>	Outline Drawing	<b>035660-800</b>



- NOTES:  
 1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.  
 2. CONDUIT BOX CAN ROTATED IN 90° STEPS.  
 3. CONDUIT BOX CAN MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ. TITLED "MOTORS AND GENERATORS REBUILT FOR USE IN HAZARDOUS LOCATIONS."

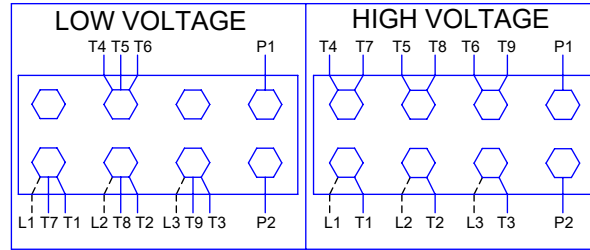
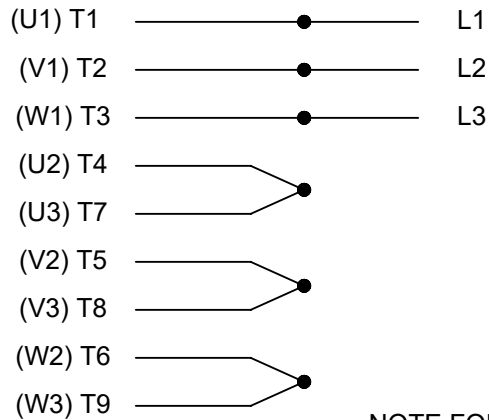


F2 LOCATION

1000	184	17.87	8.61	7.50	5.50	3.75
800	182/184	15.87	6.61	5.50	4.50	2.75
<b>DASH</b>	<b>FRAME</b>	<b>C</b>	<b>B</b>	<b>2F</b>	<b>2FF</b>	<b>BS</b>

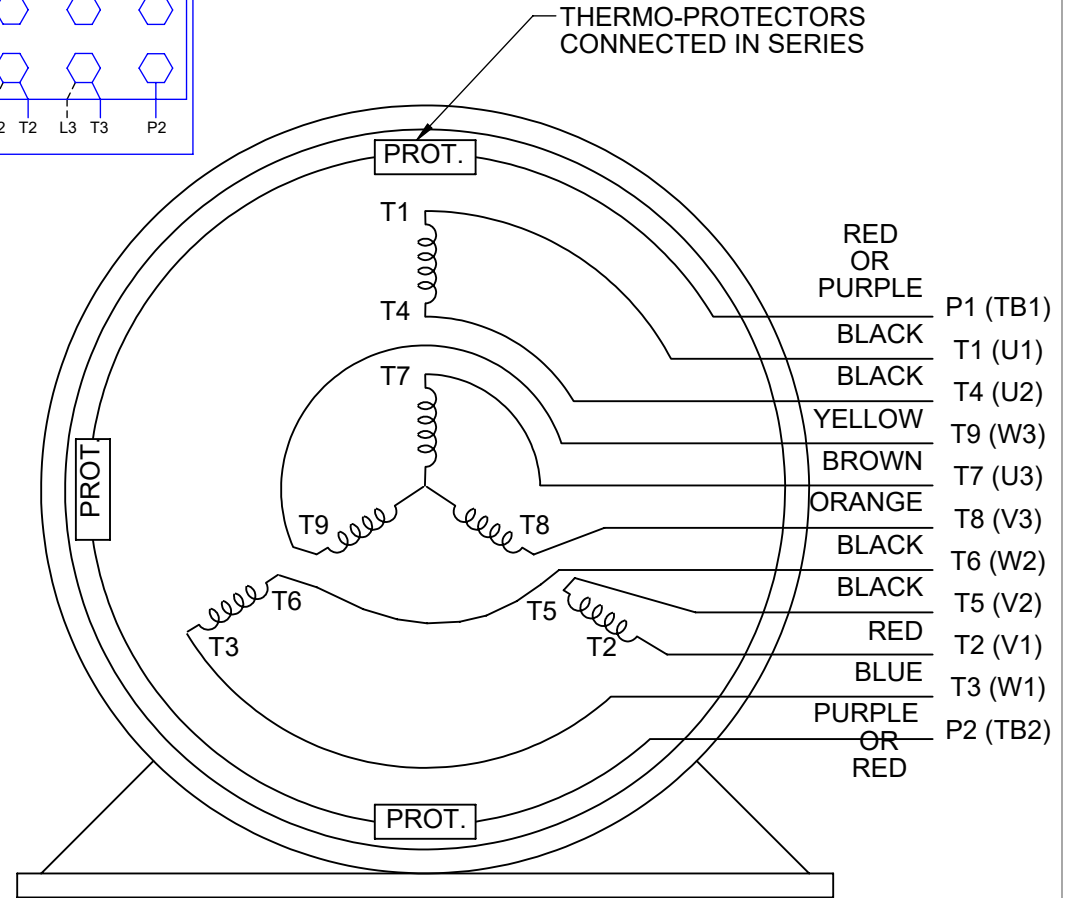
DRAWING REVISION <b>G</b>	REVISION BY <b>MN</b>	REV DATE/© DATE <b>03/14/2022</b>	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±7° 30" .XX ±0.03 [±0.8] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200 / 5.1 INCH / mm mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY <b>CTO</b>	<b>Regal Rexnord</b> Regal Beloit America, Inc.
REQUEST NUMBER <b>NMR-0213126</b>	APPROVED BY <b>MN</b>	DATE <b>03/14/2022</b>		DATE <b>07-05-2007</b>	
REQUEST NUMBER DESCRIPTION <b>UPDATED VIEWS</b>				APPROVED BY <b>SW</b>	DESCRIPTION <b>OUTLINE</b>
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				REFERENCE	MATERIAL
				THIRD ANGLE PROJECTION	PROCESS/FINISH
				SIZE <b>B</b>	DRAWING NUMBER <b>035660</b>
					SHEET <b>1 OF 1</b>

**HIGH VOLTAGE**



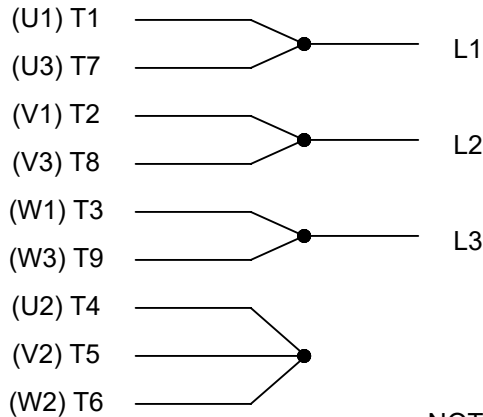
**THREE PHASE  
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS  
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST FOR COMMON CONNECT:  
HIGH VOLT: CONNECT P1 TO T1  
THEN P2 TO L1  
LOW VOLT: CONNECT P1 TO T1 & T7,  
THEN P2 TO L1

**LOW VOLTAGE**



**VIEW OF TERMINAL END**

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992	
ECO DESCRIPTION <b>ADDED TERMINAL CONNECTION DIAGRAM</b>				APPROVED BY TB	DESCRIPTION <b>CONN DIAGRAM-INTERNAL</b> 3 PHASE - DUAL VOLTAGE MOTOR
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S 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>			DATE 05-13-1992	MATERIAL	PROCESS/FINISH
			REFERENCE EE7308/EE7300	THIRD ANGLE PROJECTION	SIZE A

**CERTIFICATION DATA SHEET**

**Model#:** 182TTGN6501 AA      **WINDING#:** 1822101 FN 1  
**CONN. DIAGRAM:** EE7308T      **ASSEMBLY:** F1 ONLY  
**OUTLINE:** 035660-800

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	3600	3525&2935	182T	EPFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	7.6/3.8&6.4/3. 2	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF:	3/4 LOAD EFF:	1/2 LOAD EFF:	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
87.5&85.5	86.5	84			
FULL LOAD PF: 85&82	3/4 LOAD PF: 79	1/2 LOAD PF: 70	85.5	SQ CAGE INV RATED	3.4 / 1.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	58 / 29	9 LB-FT 200	16 LB-FT 356	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.23 LB-FT^2	4 LB-FT^2	15 SEC.	2	85 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
6206	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 10:1
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

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DATE: 06/27/2017 03:39:53 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.



**Data Sheet**

Date: 1/4/2019  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



182TTGN6501

**Submittal**  
 Data @ 460 V

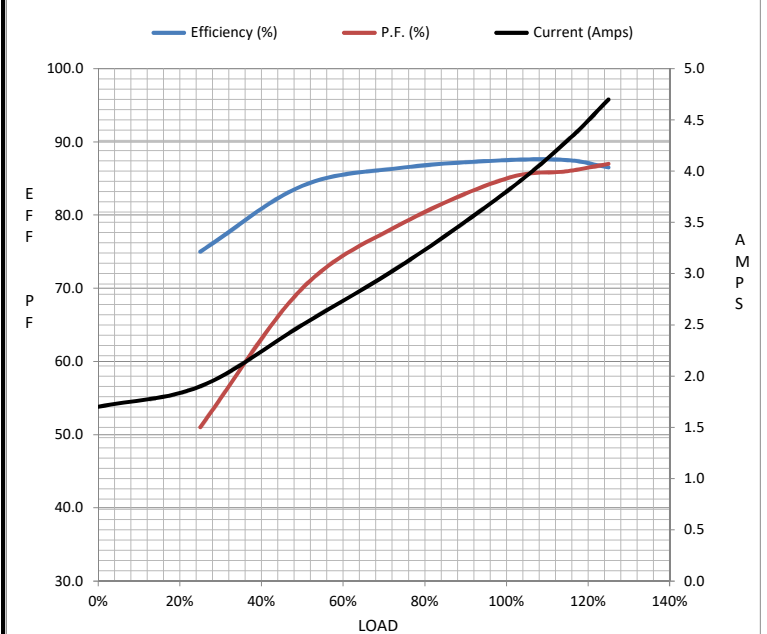
**Motor Load Data**

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.70	1.90	2.50	3.1	3.8	4.3	4.7	29.0
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.2	5.6	9.0
RPM	3600	3582	3565	3545	3525	3,515	3505	0
Efficiency (%)		75.0	84.0	86.5	87.5	87.5	86.5	
P.F. (%)	11.0	51.0	70.0	79.0	85.0	86.0	87.0	42.0

**Motor Speed Data**

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1100	2985	3525	3600
Current (Amps)	29.0	29.5	18.0	3.8	1.70
Torque (ft-lb)	9.0	10.5	16.0	4.5	0.00

Information Block				
HP	3.0			
Sync. RPM	3600			
Frame	182			
Enclosure	EPFC			
Construction	TGS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	25 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk <sup>2</sup>	0.23 Lb-Ft <sup>2</sup>			
Ref Wdg	1822101 FN			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	035660-800			
Conn. Diag	EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.7780	2.0150	7.3220	2.4500	167.4420



**Speed - Torque Curve**

