marathon®

Explosion Proof Motors

Model No: 182TTGCD4068
Catalog No: C323B

Explosion Proof Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 182TC Frame, EPFC

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Product Information Packet: Model No: 182TTGCD4068, Catalog No: C323B Explosion Proof Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 182TC Frame, EPFC

Nameplate Specifications

Phase	**3**	Output HP	**3 & 2 Hp**
Output KW	**2.2 & 1.5 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1762 & 1468 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.00 & 1.00**	Frame	**182TC**
Enclosure	**Explosion Proof Fan cooled**	Thermal Protection	**Thermostat**
Efficiency	**89.5 & 85.5 %**	Ambient Temperature	**50 °C**
Frequency	**60 & 50 Hz**	Current	**8/4 & 6.8/3.4 A**
Power Factor	**78**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**K**	Drive End Bearing Size	**6207**
Opp Drive End Bearing Size	**6206**	UL	**UL Listed And CSA Certified**
CSA	**Y**	CE	**N**
IP Code	**54**	Number of Speeds	**1**
Hazardous Location	**DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C**		

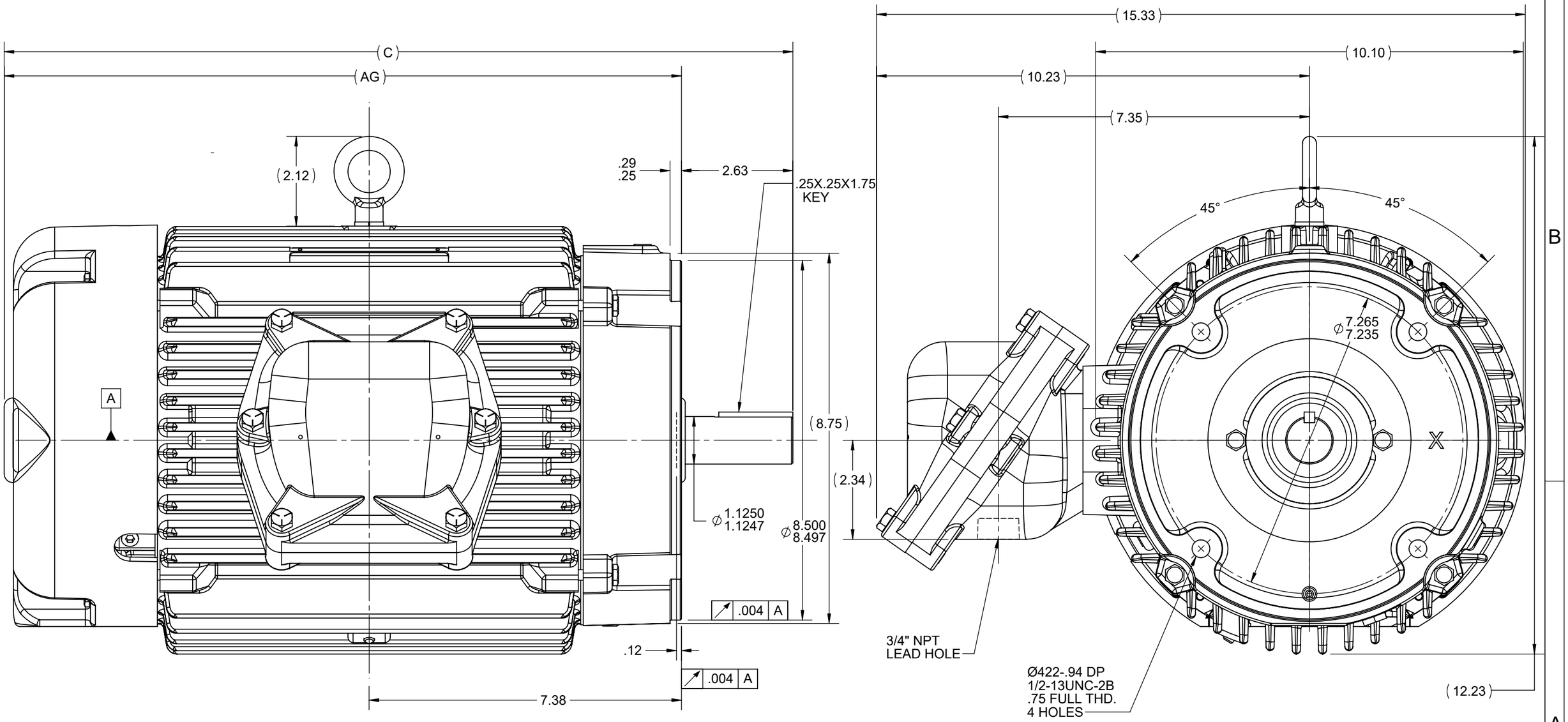
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**4.15 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**1.125 in**
Assembly/Box Mounting	**F1 Only**	Inverter Load	**Constant 10:1**

Drawings

Connection Drawing	**A-EE7308T**	Outline Drawing	**035694-1000**

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

DASH	FRAME	C	AG	BV
1000	182/184	18.63	16.00	7.38

DRAWING REVISION: C	REVISION BY: DKB	REV DATE/© DATE: 2/7/2025
REQUEST NUMBER: NMR-0237037	APPROVED BY: DKB	DATE: 2/7/2025
REQUEST NUMBER DESCRIPTION: FRAME UPDATED		

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TOLERANCES (EXCEPT AS NOTED):

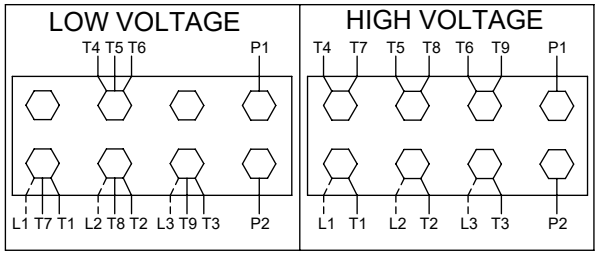
DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

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

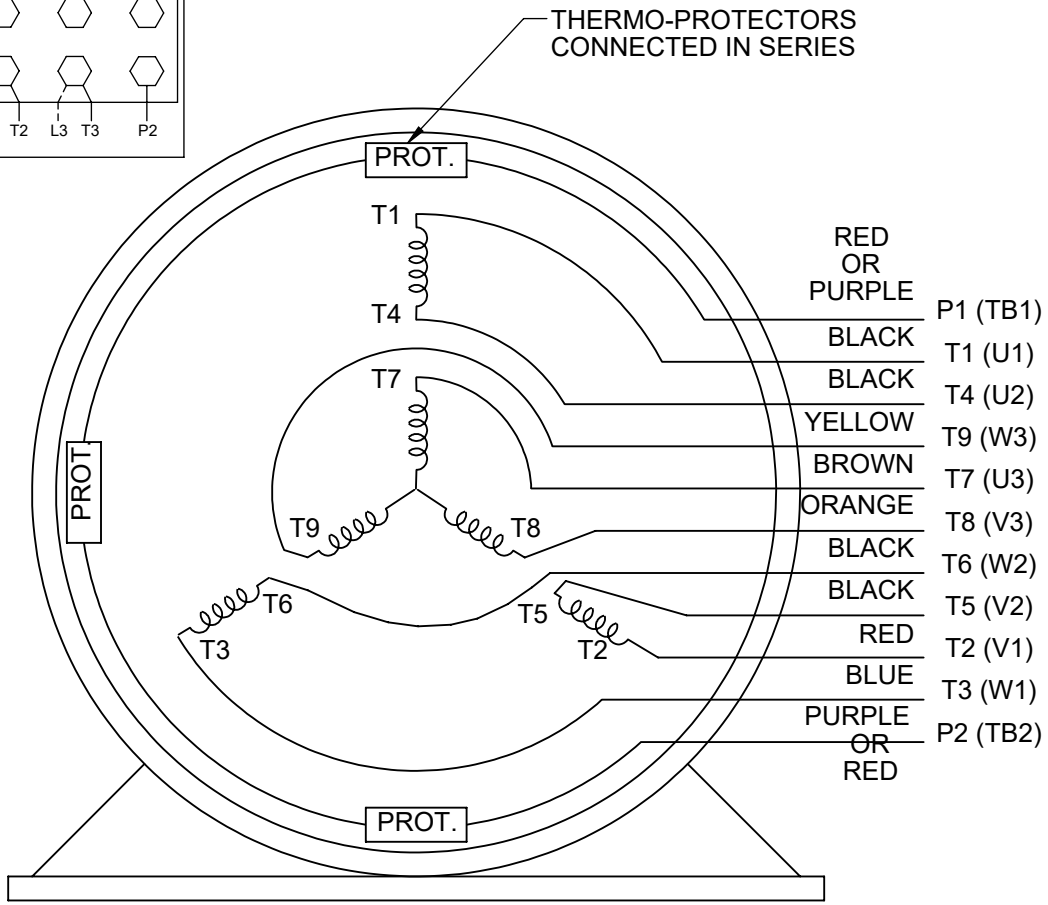
DRAWN BY: TJW	marathon™
DATE: 3/25/2008	
APPROVED BY: SW	DESCRIPTION: OUTLINE, 180 FR. - CAST C'BOX
DATE: 3/26/2008	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: 035694 / SHEET: 1 OF 1

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9



THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

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

(U1) T1 — L1
(U3) T7 — L1
(V1) T2 — L2
(V3) T8 — L2
(W1) T3 — L3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6

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

DRAWING REVISION: U	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: SMC	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 05-13-1992	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: TB	DESCRIPTION: CONN DIAGRAM-EXTERNAL
				DATE: 05-13-1992	3 PHASE - DUAL VOLTAGE MOTOR
				REFERENCE: EE7308/EE7300	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A — DRAWING NUMBER: EE7308T — SHEET: 1 OF 1

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Data Sheet

Date: 7/28/2022
Customer:
Attention:
Submitted by:

marathon electric

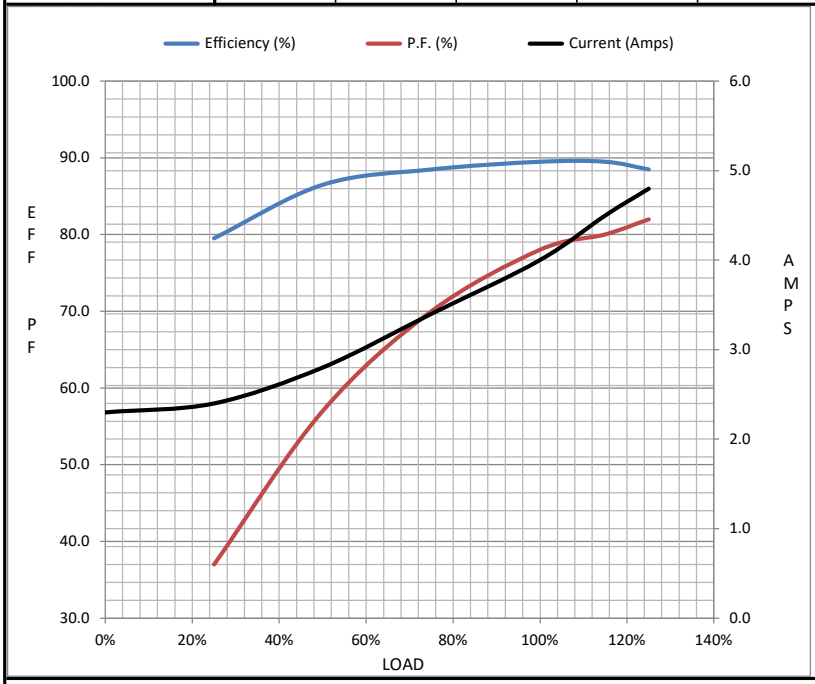
182TTGCD4068
112014.002 FAN
Submittal
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.30	2.40	2.80	3.4	4.0	4.5	4.8	32.0	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.3	11.2	20.0	
RPM	1800	1790	1782	1772	1762	1,758	1755	0	
Efficiency (%)		79.5	86.5	88.5	89.5	89.5	88.5		
P.F. (%)	7.0	37.0	57.0	70.0	78.0	80.0	82.0	48.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1762	1800
Current (Amps)	32.0	28.0	18.0	4.0	2.30
Torque (ft-lb)	20.0	17.0	29.0	9.0	0.00

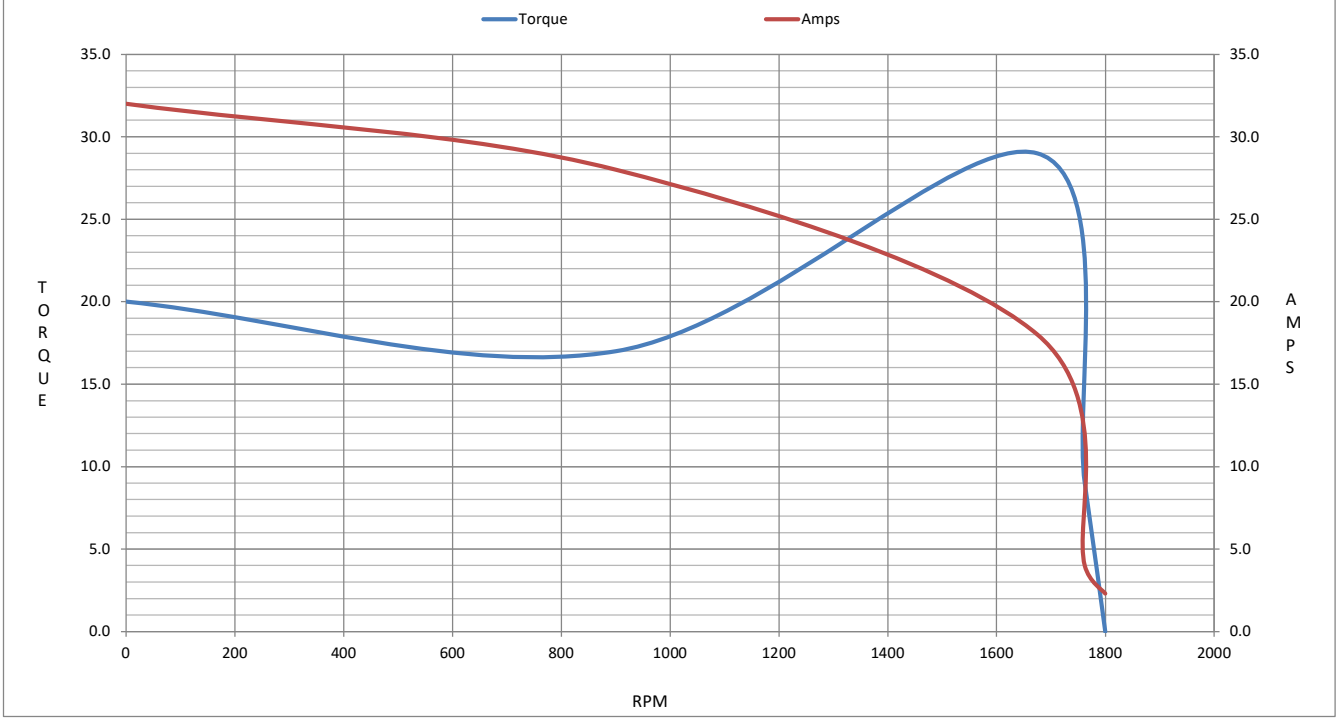


Information Block	
HP	3.0
Sync. RPM	1800
Frame	182
Enclosure	EPFC
Construction	TFB
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	K
Service Factor	1.0
Temp Rise @ FL	60 ° C
Duty	CONT
Ambient	50 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.30 Lb-Ft²
Ref Wdg	HA31124021 NONE
Sound Pressure @ 1M	62 dBA
VFD Rating	NONE
Outline Dwg	035694-1000
Conn. Diag	A-EE7308T
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.3650	1.4190	5.3920	5.3920	118.2500

Speed -Torque Curve



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: A-EE7308T
OUTLINE: 035694-1000
WINDING: HA31124021 NONE 3
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 182TTGCD4068
CAT #: C323B
CUSTOMER PART #:
MOUNTING: F1 ONLY
FAN: 504205B

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	1800	1762	182TC	EPFC	TFB	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	8/4&6.8/3.4	ACROSS THE LINE	CONT	F	1.00	50	3300

F.L. EFF	89.5	3/4 LD EFF	88.5	1/2 LD EFF	86.5	GTD EFF	ELECT. TYPE
F.L. PF	78.0	3/4 LD PF	70.0	1/2 LD PF	57.0	88.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
9.0 LB-FT	32.0	20.0 LB-FT 222%	29.0 LB-FT 322%	60	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.
62 dBA	71 dBA	0.30 LB-FT²	25 LB-FT²	32 SEC.	2	151 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C	NO	NONE	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6207	6206						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
2.365	1.419	5.392	5.392	118.25	0.150	ODE

*
N
O
T
E
S
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**

PREPARED BY:
DATE: 10/19/2022

FORM: 3531 REV_4 2/27/06

UL: NO LETTER - ALL BRANDS-UL LISTED AND CSA CERTIFIED DIV. 1 XP MOTORS