marathon®

Explosion Proof Motors

Model No: 184TTGCD6575
Catalog No: C365B

Explosion Proof Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 184TC Frame, EPFC

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Product Information Packet: Model No: 184TTGCD6575, Catalog No: C365B Explosion Proof Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 184TC Frame, EPFC

Nameplate Specifications

Phase	**3**	Output HP	**5 & 3 Hp**
Output KW	**3.7 & 2.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1755 & 1462 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.00 & 1.00**	Frame	**184TC**
Enclosure	**Explosion Proof Fan cooled**	Thermal Protection	**Thermostat**
Efficiency	**89.5 & 86.5 %**	Ambient Temperature	**50 °C**
Frequency	**60 & 50 Hz**	Current	**13/6.5 & 10.2/5.1 A**
Power Factor	**80**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	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**		

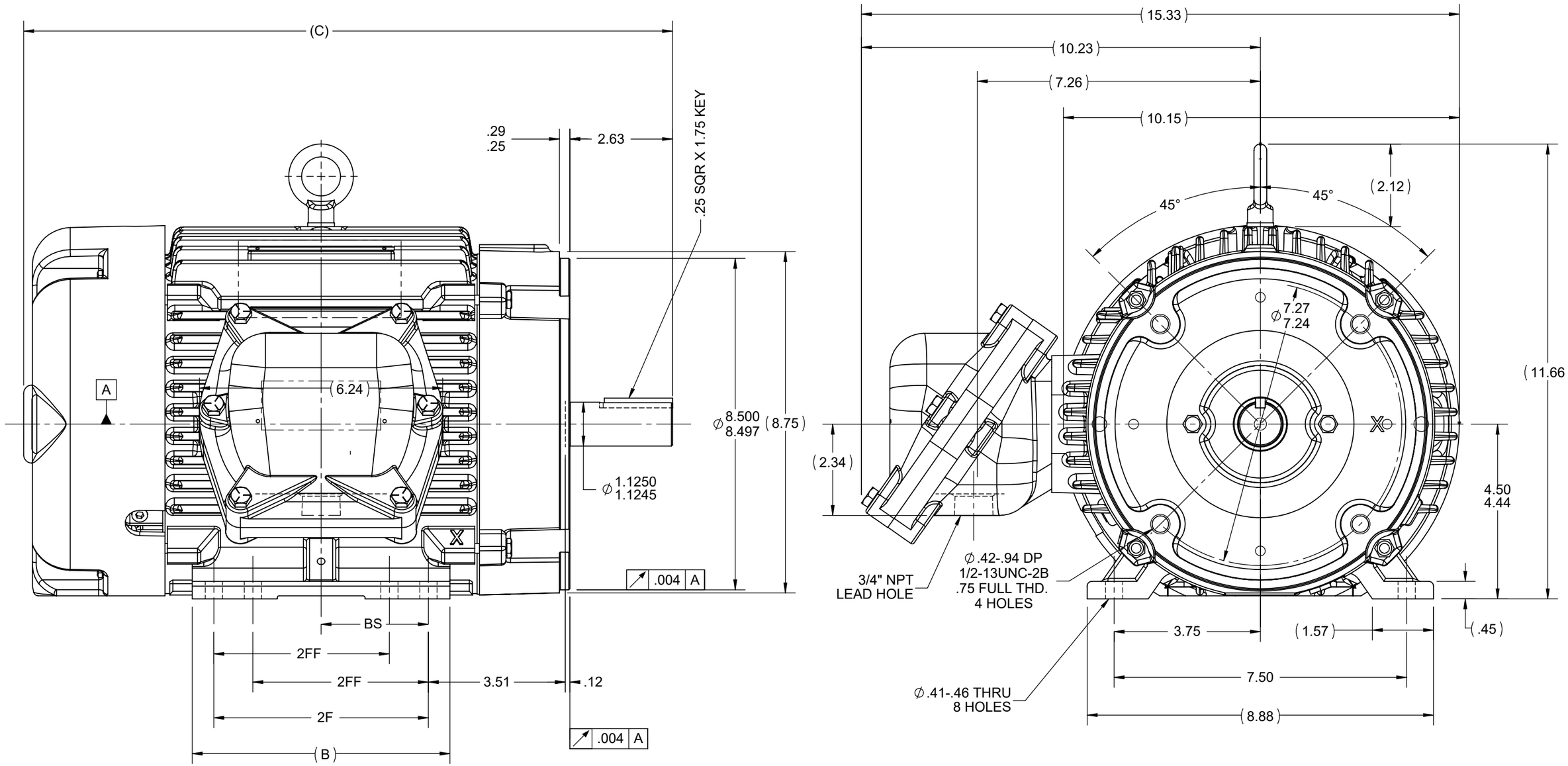
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**2.69 O**	Mounting	**Rigid Base**
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	**035673-800**

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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°

1000	182/184	18.63	8.61	7.50	5.50	3.75
800	182/184	16.63	6.61	5.50	4.50	2.75
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION: D	REVISION BY: SB	REV DATE/© DATE: 07/24/2025
REQUEST NUMBER: CR-0023556	APPROVED BY: SBD	DATE: 07/24/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY: TJW	
DATE: 3/25/2008	
APPROVED BY: SW	
DATE: 3/26/2008	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

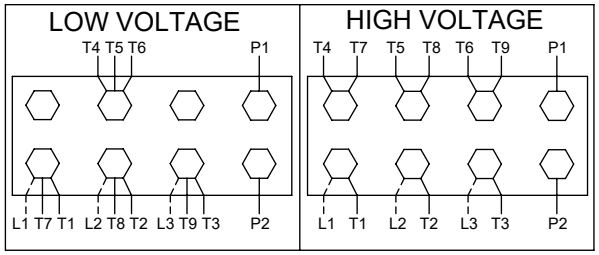
DESCRIPTION: OUTLINE
180 FR. EPFC - C FACE - CAST C'BOX

MATERIAL | PROCESS/FINISH

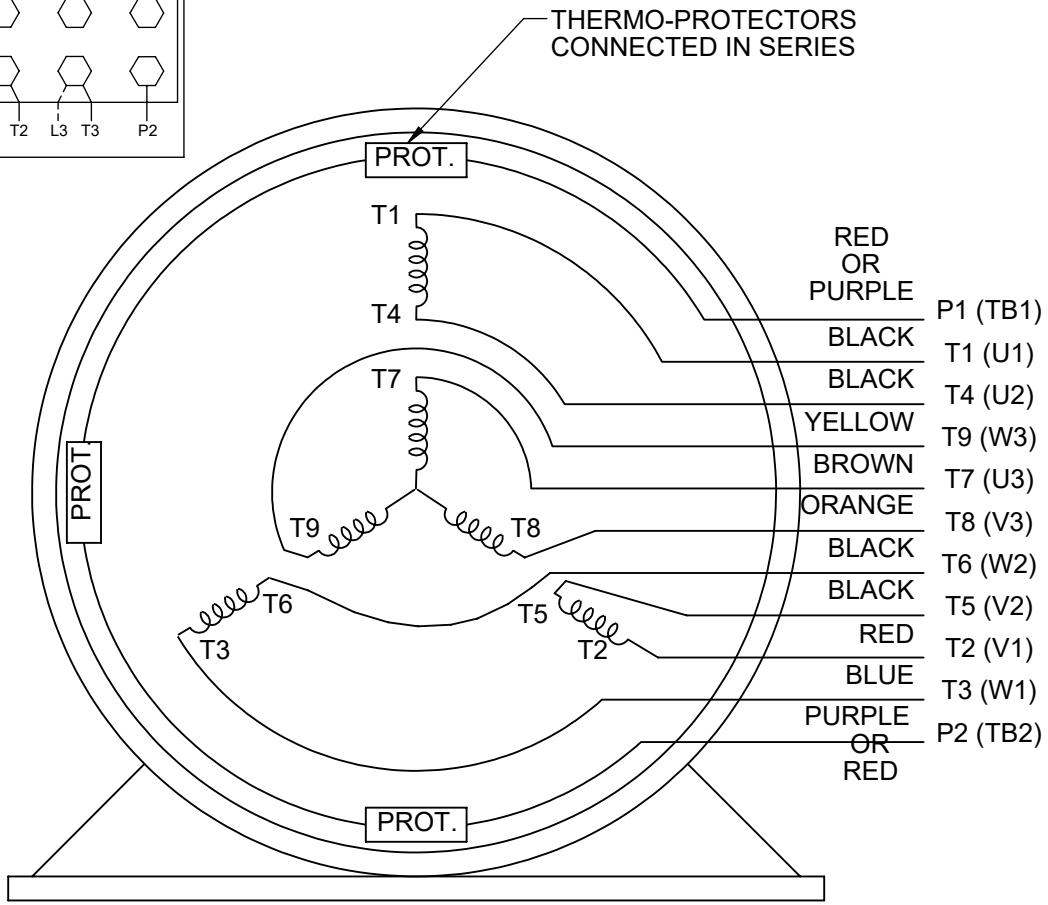
SIZE: B | DRAWING NUMBER: 035673 | SHEET: 1 OF 1

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: 7/27/2022
Customer:
Attention:
Submitted by:

marathon® Motors

184TTGCD6575

Submittal

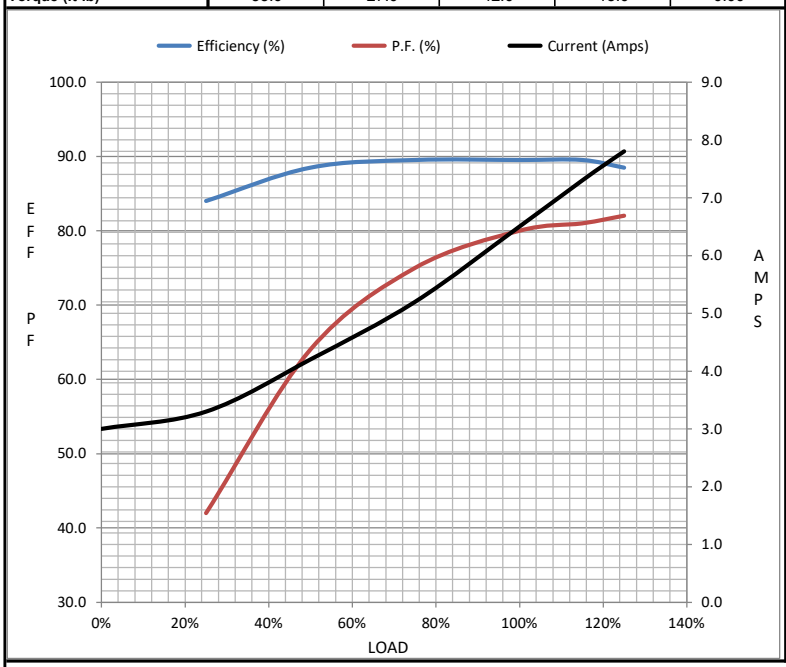
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.0	3.3	4.2	5.2	6.5	7.3	7.8	46.0	
Torque (ft-lb)	0.00	3.7	7.5	11.1	15.0	17.2	18.8	33.0	
RPM	1800	1790	1780	1768	1755	1,750	1745	0	
Efficiency (%)		84.0	88.5	89.5	89.5	89.5	88.5		
P.F. (%)	7.0	42.0	64.0	75.0	80.0	81.0	82.0	48.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1755	1800
Current (Amps)	46.0	44.0	29.0	6.5	3.0
Torque (ft-lb)	33.0	27.0	42.0	15.0	0.00



Information Block

HP	5.0	
Sync. RPM	1800	
Frame	184	
Enclosure	EPFC	
Construction	TFC	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.0	
Temp Rise @ FL	60	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	0.39	Lb-Ft²
Ref Wdg	HA31124020 R2	
Sound Pressure @ 1M	62	dBA
VFD Rating	NONE	
Outline Dwg		
Conn. Diag	A-EE7308T	

Additional Specifications:

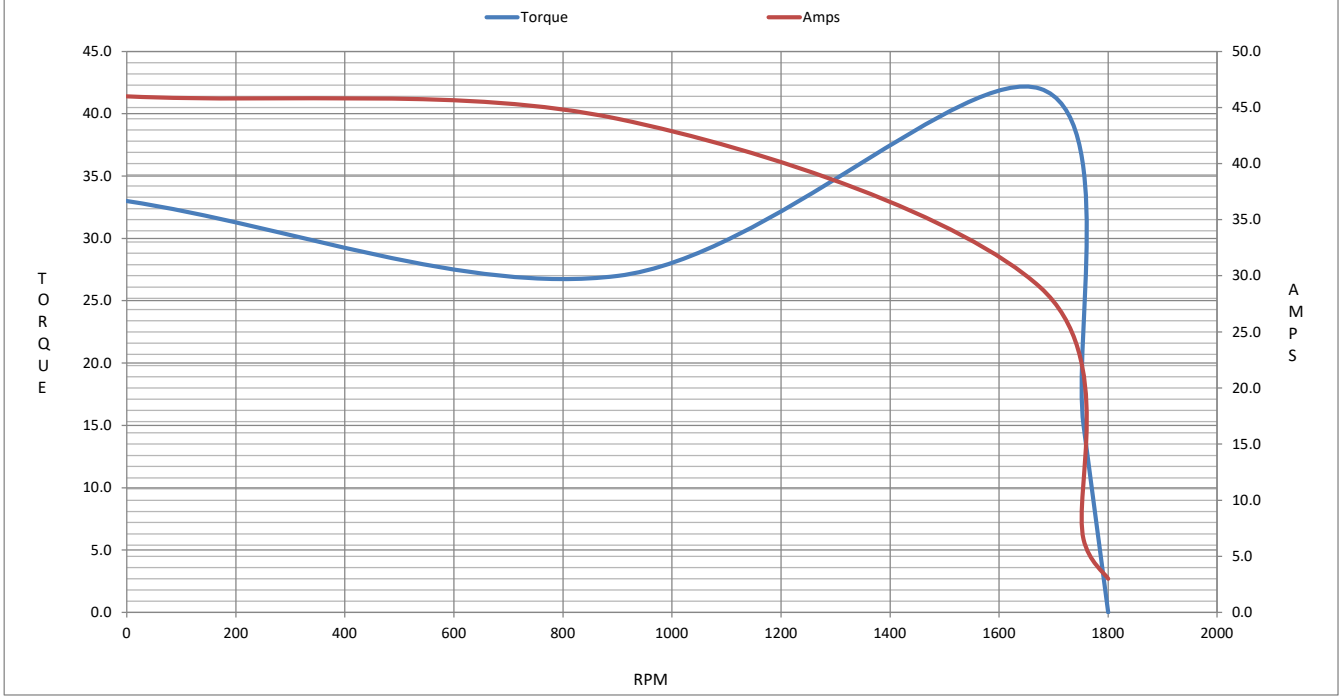
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EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.5310	0.9640	3.6860	3.9690	88.8490

Speed -Torque Curve



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

marathon® Motors

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: A-EE7308T
OUTLINE: 035673-800
WINDING: HA31124020 NONE 3
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 184TTGCD6575
CAT #: C365B
CUSTOMER PART #:
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	1800	1755	184TC	EPFC	TFB	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	13/6.5&10.2/5.1	ACROSS THE LINE	CONT	F	1.15	50	3300

F.L. EFF	89.5	3/4 LD EFF	89.5	1/2 LD EFF	88.5	GTD EFF	ELECT. TYPE
F.L. PF	80.0	3/4 LD PF	75.0	1/2 LD PF	64.0	88.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
15.0 LB-FT	46.0	33.0 LB-FT 220%	42.0 LB-FT 280%	50	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
62 dBA	71 dBA	0.31 LB-FT²	45 LB-FT²	15 SEC.	2	0	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	PROOF CL I GR CD CL II	NO	NONE	BLUE - RAL 5003 (EPOXY)

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
1.531	0.964	3.686	3.969	88.849	0.080	ODE

*
N
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*

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: CHANDANA DESU
DATE: 8/1/2022

FORM: 3531 REV_4 2/27/06

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