Explosion Proof Motors

Model No: 256TTGN16004
Catalog No: C308B

Explosion Proof Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 256TC Frame, EPFC

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Product Information Packet: Model No: 256TTGN16004, Catalog No: C308B Explosion Proof Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 256TC Frame, EPFC

Nameplate Specifications

Phase	**3**	Output HP	**20 & 15 Hp**
Output KW	**14.9 & 11.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3537 & 2955 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**256TC**
Enclosure	**Explosion Proof Fan cooled**	Thermal Protection	**Thermostat**
Efficiency	**92.4 & 92.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**47/23.4 & 42/21 A**
Power Factor	**86**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6210**	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 T3B**		

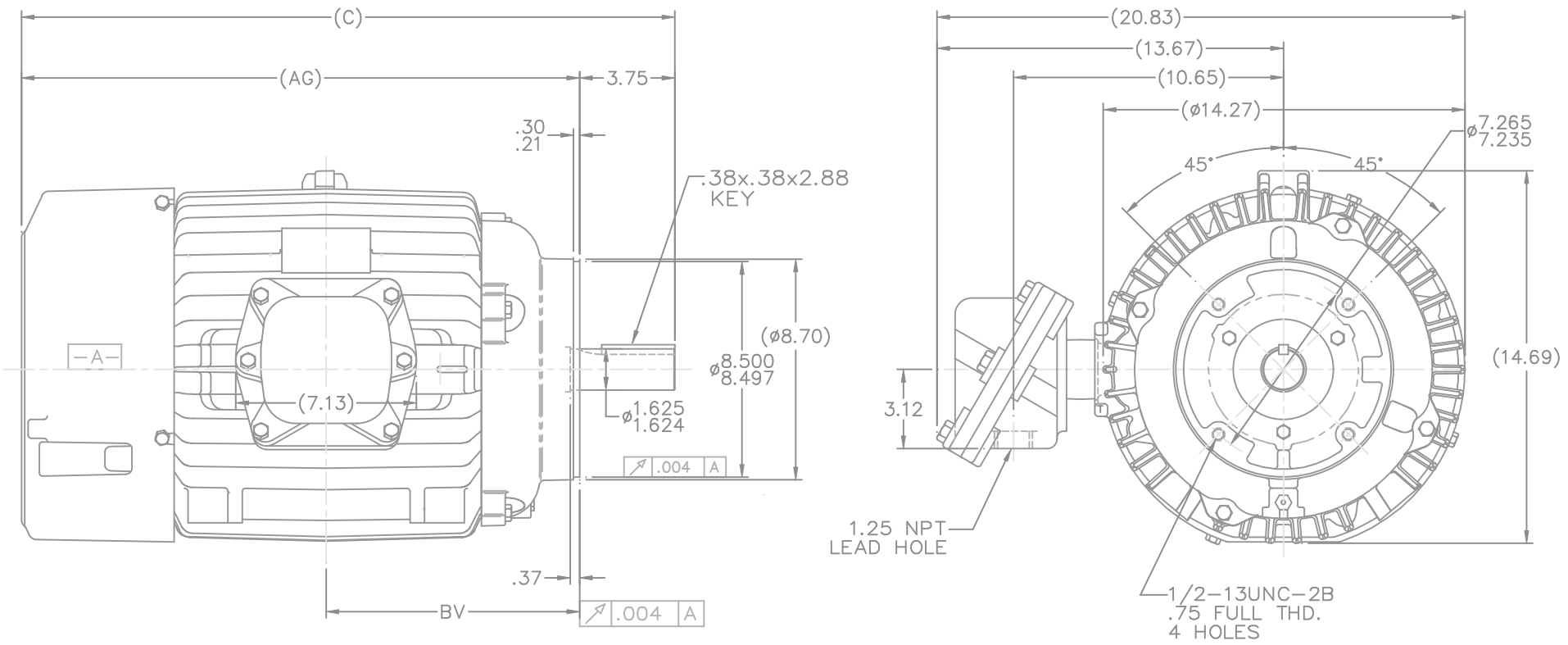
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.394 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**25.77 in**
Frame Length	**12.26 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**3.75 in**	Assembly/Box Mounting	**F1 Only**
Inverter Load	**Constant 10:1**		

Drawings

Connection Drawing	**A-EE7308T**	Outline Drawing	**B-SS207446-1225**

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NOTES:
1. BOX CAN BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

DASH	FRAME	C	AG	BV	
1225	254-6TC	25.77	22.02	10.00	

NO.	REVISION	BY & DATE	CHK
2	REDRAWN IN AUTOCAD	RWR 09-27-2004	
1	NEW DRAWING MU18309	MH 02-06-1998	ML

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

DRAWN MH 02-05-1998
CHK ML 02-06-1998
APPD TB 02-06-1998
SCALE 1=4
REF
FMF
PREV

TITLE OUTLINE
254-6TC FR. -EXP. PR. - 'C' FACE

MAT'L.
FINISH
CAD FILE ss207446

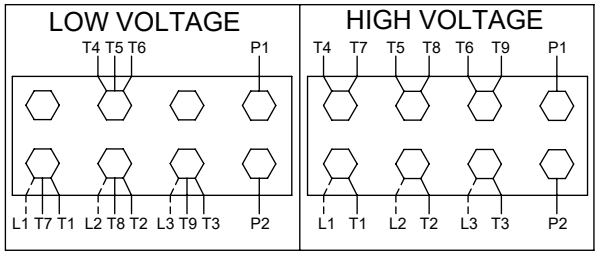
RFP 02-06-1998
DIST LB

SIZE B | DRAWING NO. SS207446 | PAGE 1 OF 1 | REV. 2

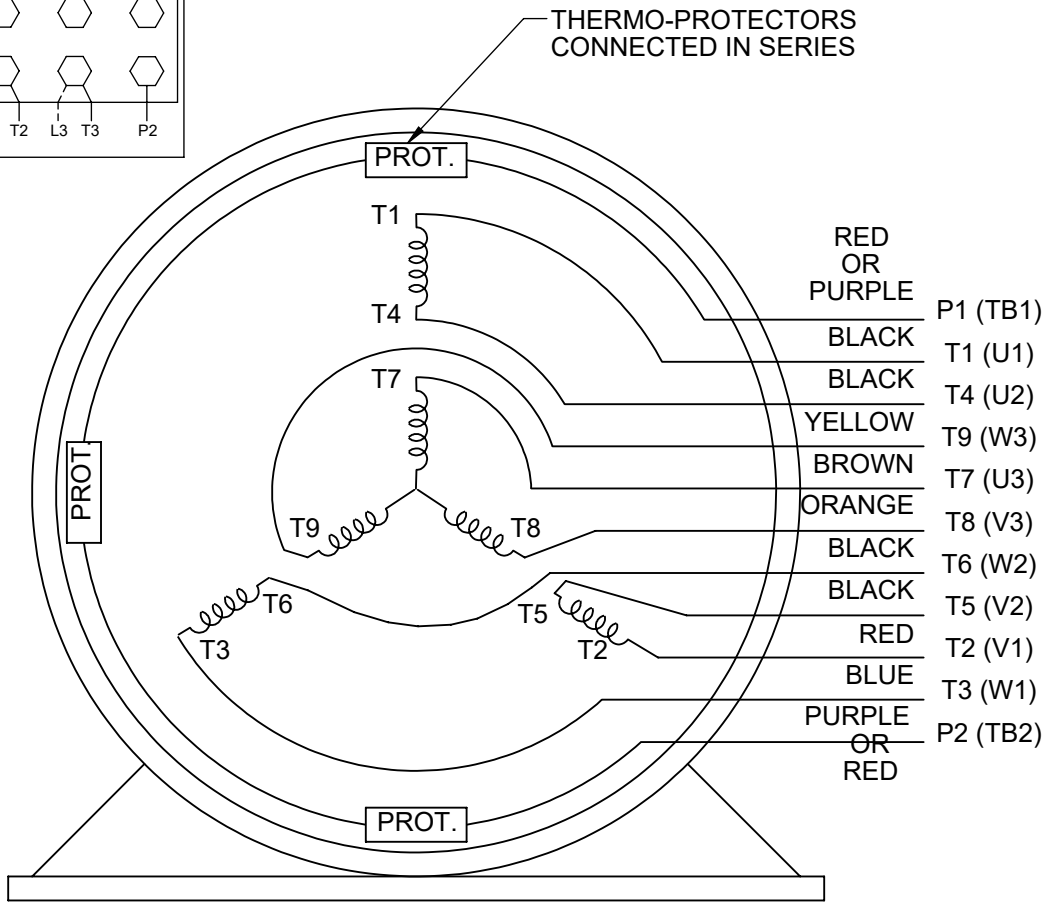
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HIGH VOLTAGE

(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
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(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: 11/29/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

256TTGN16004

Submittal

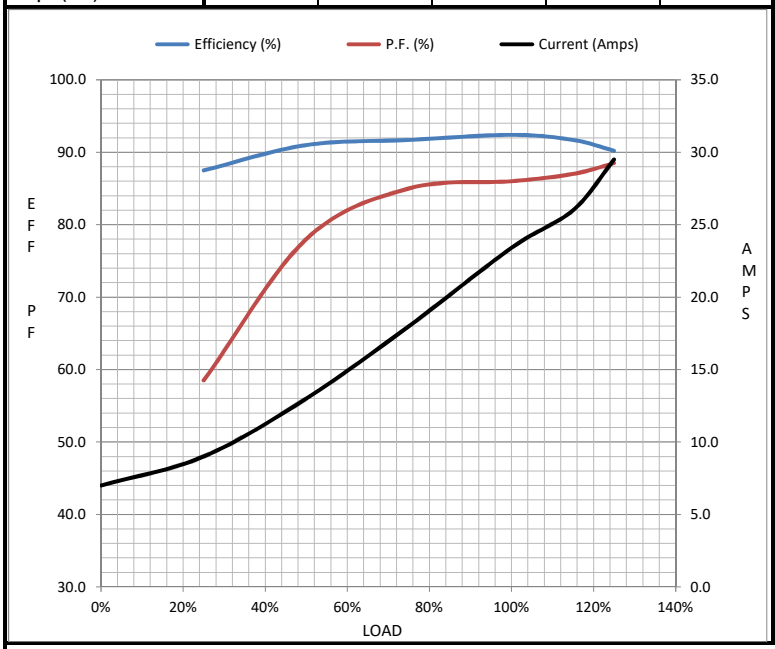
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.0	9.0	13.0	18.0	23.4	26.0	29.5	145	
Torque (ft-lb)	0.00	7.5	15.0	22.0	29.7	31.0	37.5	55.0	
RPM	3600	3585	3570	3555	3537	3,525	3515	0	
Efficiency (%)		87.5	91.0	91.7	92.4	91.7	90.2		
P.F. (%)	10.5	58.5	78.0	85.0	86.0	87.0	88.5	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3155	3537	3600
Current (Amps)	145	131	100	23.4	7.0
Torque (ft-lb)	55.0	50.0	84.0	29.7	0.00



Information Block

HP	20.0	
Sync. RPM	3600	
Frame	256	
Enclosure	EPFC	
Construction	TGS	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	1.30	Lb-Ft²
Ref Wdg	K256288 NONE	
Sound Pressure @ 1M	72	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	B-SS207446-1225	
Conn. Diag	A-EE7308T	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.2530	0.2230	1.0790	1.1190	37.7720

Speed -Torque Curve

