

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 254TTFL16078
Catalog No: C255B
7 1/2,1200,TEFC,254TC,3/60/230/460
Totally Enclosed Fan Cooled (TEFC)



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REGAL

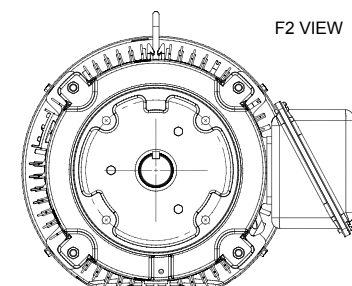


Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230/460 V
Current	19.8/9.9 A	Speed	1175 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	H	Frame	254TC
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6208	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Round	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Aluminum	Shaft Type	T
Overall Length	24.02 in	Frame Length	12.00 in
Shaft Diameter	1.625 in	Shaft Extension	3.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS321108-1200	Connection Diagram	EE7308



SIZE B	DRAWING NUMBER SS321108	SHEET 1 OF 1
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DASH	FRAME	C	BV	AG
1200	254TC	24.02 [610.11]	6.72 [170.69]	20.26 [514.60]
1375	254/6TC	25.77 [654.56]	6.72 [170.69]	22.01 [559.05]



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM 11/20/1990	
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK	ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1	TITLE CONNECTION DIAGRAM 3Ø – DUAL VOLTAGE MOTOR	APPD	SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FINISH	PREV
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	SIZE	DRAWING NO. PAGE OF REV.
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT						RFP	CAD FILE ee7308	
						DIST WP	A	EE7308 5



P.O. BOX 8003
WAUSAU, WI 54401-8003
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DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:		CUSTOMER P.O. #:	
ORDER #:	EE7308	REFERENCE MODEL #:	254TTFL16078
CONN. DIAGRAM:		CAT #:	C255B
OUTLINE:	B-SS321108-1200	CUSTOMER PART #:	
WINDING:	254653	MOUNTING:	F1/F2 CAPABLE
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
7.5	5.6	1200	1175	254TC	TEFC	TEY	H	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	19.8/9.8&17/8.5	ACROSS THE LINE	CONT	F	1.15	40	3300
F.L. EFF		91.0	3/4 LD EFF	91.0	1/2 LD EFF	90.2	GTD EFF	ELECT. TYPE	
F.L. PF		78.0	3/4 LD PF	72.5	1/2 LD PF	61.0	90.2	SQ CAGE IND RUN	
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)	
33.5 LB-FT		63.5		72.0 LB-FT		103 LB-FT		307%	
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME	
56 dBA		65 dBA		2.50 LB-FT²		170 LB-FT²		20 SEC.	
								STARTS/HOUR	
								2	
								MOTOR WGT	
								350 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	NONE	NO	NONE	BLUE (ENAMEL)									
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL									
DE	ODE																
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		ALUMINUM									
6309	6208																
THERMOSTATS		PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS										
NONE		NOT	NONE	NONE	NONE	FALSE	NA										
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)												
0.737	0.673	2.903	3.153	53.487	0.150												
				ODE													
* N O T E S																	
INVERTER TORQUE: NONE																	
INV. HP SPEED RANGE: NONE																	
ENCODER: NONE																	
NONE																	
NONE																	
BRAKE: NONE																	
NONE																	
FT-LB: NA																	
VOLTAGE: NONE																	
UL: V/INS. CONST UL REC																	
HZ:																	

PREPARED BY: FAREEDA DUDEKULA
DATE: 9/10/2018

Data Sheet

Date: 9/10/2018

254TTF16078

Customer:

9/10/2018



Submittal

Submitted by:

FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.8	5.3	6.5	8.0	9.9	11.5	12.0	63.5
Torque (ft-lb)	0.00	8.0	16.5	25.0	33.5	38.5	42.0	72.0
RPM	1200	1195	1190	1180	1175	1,170	1165	0
Efficiency (%)		85.5	90.2	91.0	91.0	90.2	90.2	
P.F. (%)	7.0	40.0	61.0	72.5	78.0	80.0	80.5	42.0

Motor Speed Data

Information Block						
	LR	Pull-Up	BD	Rated	Idle	
Speed (RPM)	0	600	1065	1175	1200	
Current (amps)	63.5	59.0	39.5	9.9		HP
Torque (ft-lb)	72.0	69.0	103	33.5	0.00	Sync. RPM
						7.5
						1200

Information Block

Current (Amps)	63.5	59.0	39.5	9.9	4.8
Torque (ft-lb)	72.0	69.0	103	33.5	0.00
HP					7.5
Sync. RPM					1200
Frame					2543641TF06081
Enclosure					TEFC
Construction					TFY
Voltage					230/460#190/380 V
Frequency					60 Hz
Design					B
LR Code letter					H
Service Factor					1.15
Temp Rise @ FL					40 °C
Duty					CONT
A					
M					40 °C
P					1,000 feet
Elevation					2.50 Lb-Ft²
Rotor/Shaft wk²					254653 RI14
Rel Wdg					
Sound Pressure @ 1M					56 dBA
V/FD Rating					NONE
Outline Dwg					B-SS921108-1200
Conn. Diag					EE7308
Additional Specifications:					
0					
0					
EQUIV CKT (OHMS / PHASE)					
R1	R2	X1	X2		
0.7370	0.6730	2.9030	3.1530		

Speed -Torque Curve

