

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256TTFC6031
Catalog No: U653A
20,1800,TEFC,256T,3/60/575
Totally Enclosed Fan Cooled (TEFC)



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REGAL



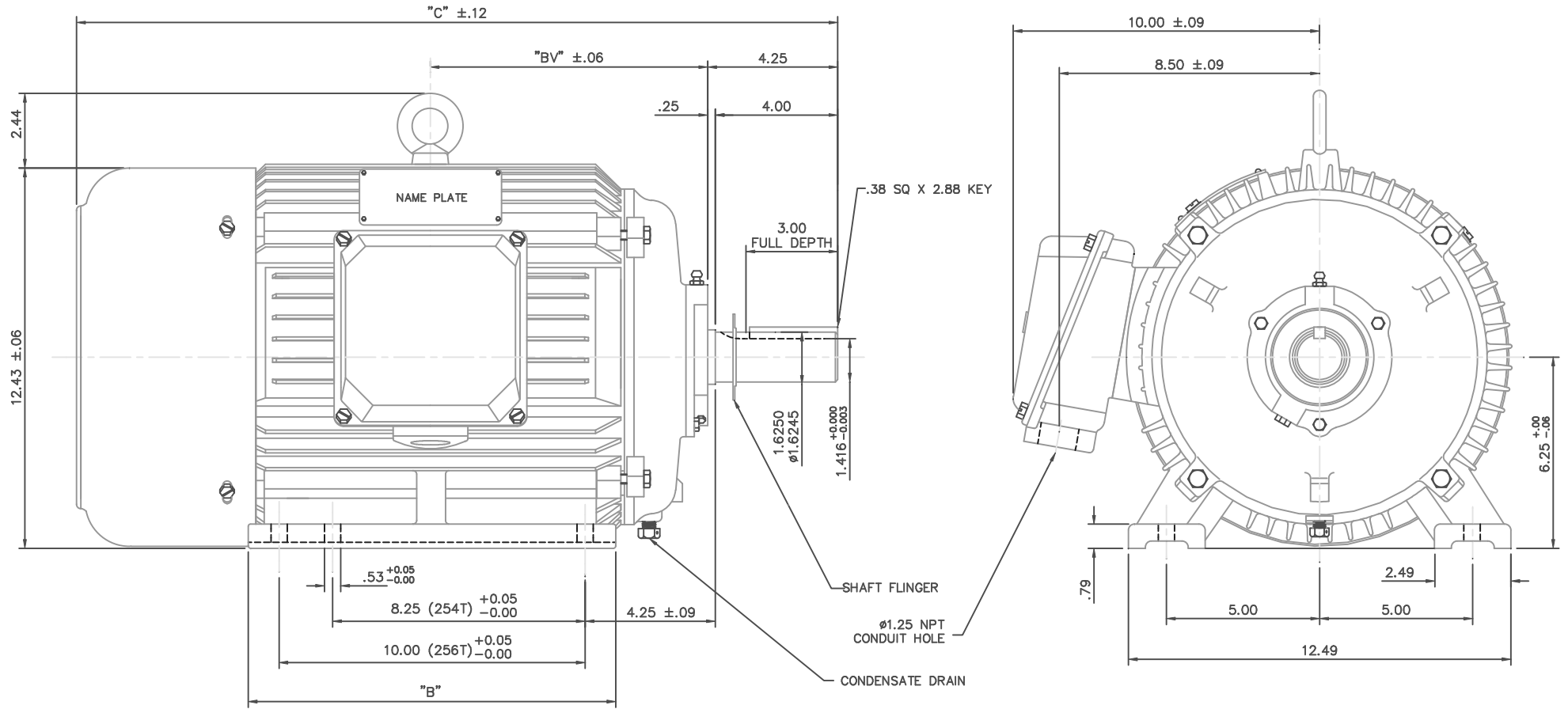
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	575 V
Current	20.0 A	Speed	1770 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	256T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6308	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	24.92 in	Shaft Diameter	1.625 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	16953860LN	Connection Diagram	005190.01ME

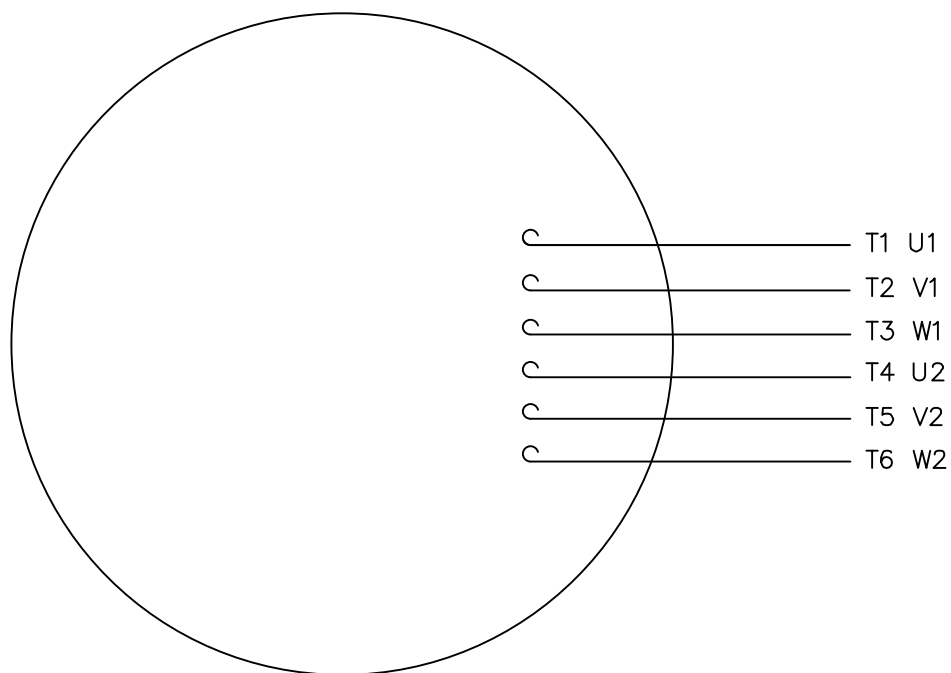
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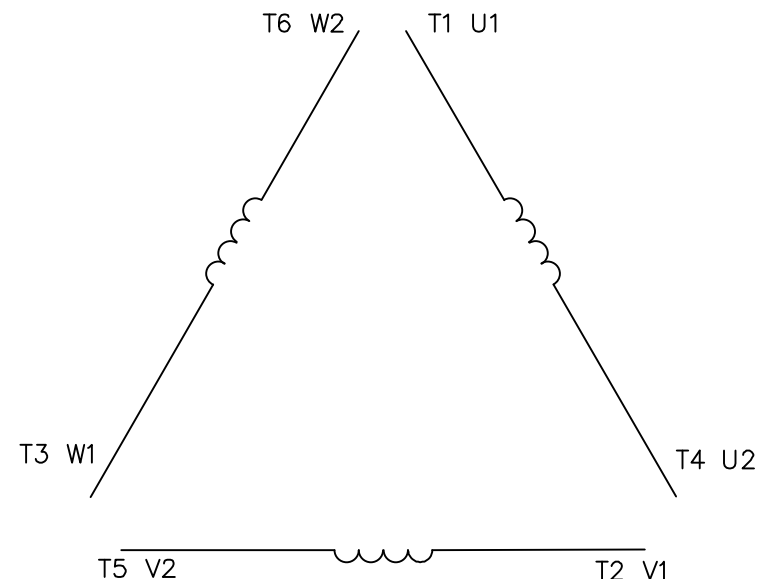
NOTE: 256T HAS 6 MTG. HOLES, USING BOTH 254T AND 256T "2F" LOCATIONS.

FRAME	"C"	"B"	"BV"
254T	23.19	10.25	8.19
256T	24.92	12.00	9.06

		TOLERANCES UNLESS SPECIFIED		Lincoln Motors	DRAWN DRZ 05/22/01
		DEC.	INCHES		
		.X	±.1		CHK
		.XX	±.03		APPD
		.XXX	±.005	TITLE	SCALE 5=16
		.XXXX	±.0005	MAT'L	REF
01	REDRAWN TO CURRENT CAD STANDARDS	CJK	8/3/01	FINISH	PREV
NO.	REVISION	BY & DATE		CAD FILE	REV.
		CHK	ANG ±1/2"	16953860LN	01
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				RFP	
				DIST	



LINE LEADS



	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN PG 05/07/82	
		DEC.	INCHES		CHK	
		.X	±.1		APPD TEM 05/07/82	
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	.XX ±.01	TITLE	EXTERNAL WIRING DIAGRAM	
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	.XXX ±.005		STAR START - DELTA RUN	
01	REDRAWN ON CAD	DBT 05/30/97	.XXXX ±.0005	MAT'L. Y-CONNECTED START - DELTA CONNECTED RUN		SCALE 1=1
NO.	REVISION	BY & DATE	CHK ANG ±1/2'	FINISH SINGLE VOLTAGE		REF
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			DIST			REV.
				A		005190-01ME
						03

CERTIFICATION DATA SHEET

Model#:

256TTFC6031 AA

WINDING#:

T12904020 NONE 4

CONN. DIAGRAM:

5190.01ME

ASSEMBLY:

F1/F2 CAPABLE

OUTLINE:

16953860LN

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20	14.9	1800	1770	256T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	20	ACROSS THE LINE	CONTINUOUS	F2	1.15	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82	3/4 LOAD PF: 77	1/2 LOAD PF: 68	91.7	SQ CAGE IND RUN	7.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.5 LB-FT	116	115 LB-FT 192	195 LB-FT 328	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	2.97 LB-FT^2	- LB-FT^2	20 SEC.	2	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6309	6308	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE			

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If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
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

