

# PRODUCT INFORMATION PACKET

Model No: 256UTFPA4027

Catalog No: P530

Automotive Duty Motor, 10 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 256UC Frame, TEFC



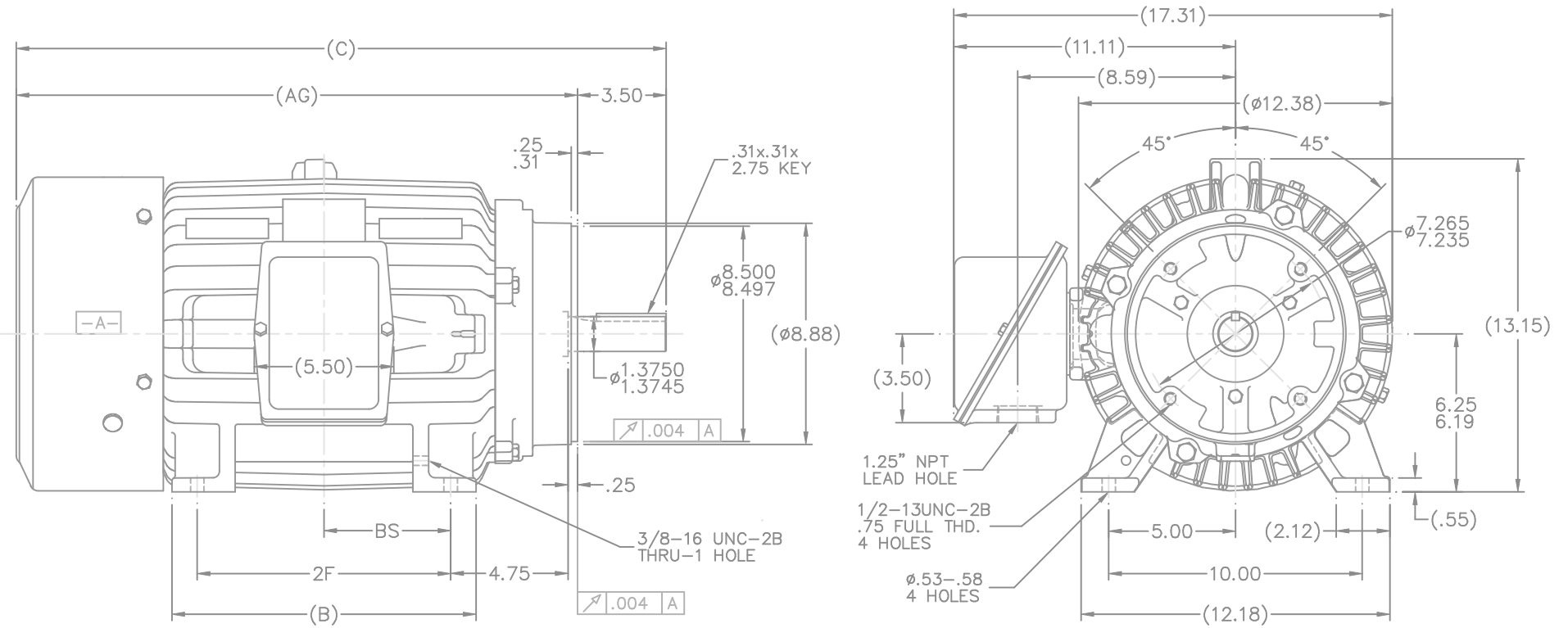
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**Nameplate Specifications**

Output HP	<b>10 Hp</b>	Output KW	<b>7.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>460 V</b>
Current	<b>12.5 A</b>	Speed	<b>1765 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>91.7 %</b>	Power Factor	<b>82</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Frame	<b>256UC</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>65 °C</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6207</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

**Technical Specifications**

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.894 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>U</b>	Overall Length	<b>25.64 in</b>
Frame Length	<b>13.50 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.5 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Connection Drawing	<b>A-EE7300</b>	Outline Drawing	<b>B-SS203928-1350</b>



- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
  2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
  3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

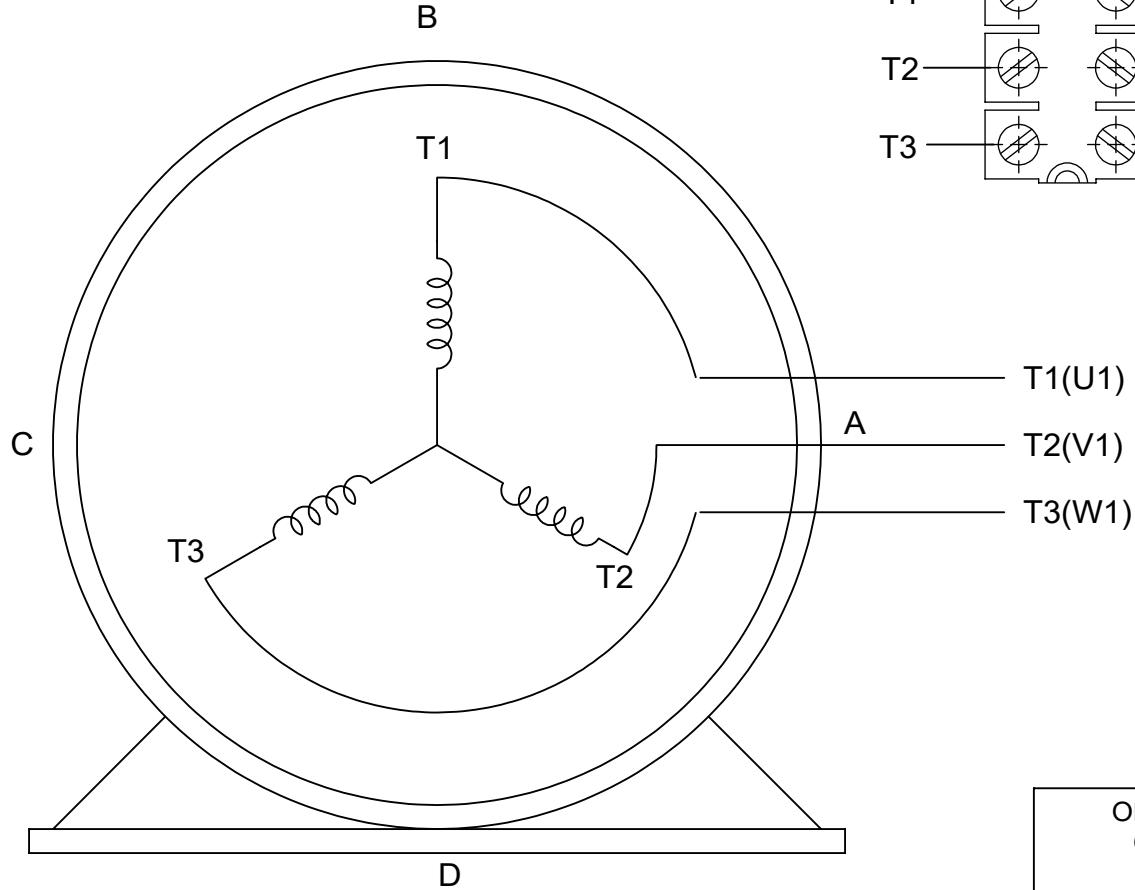
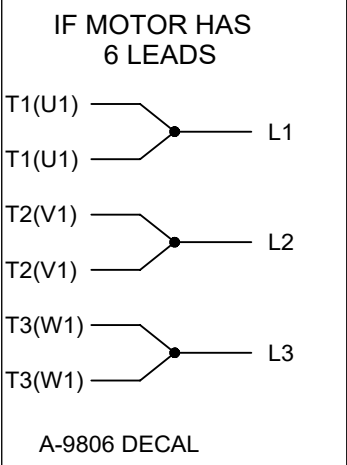
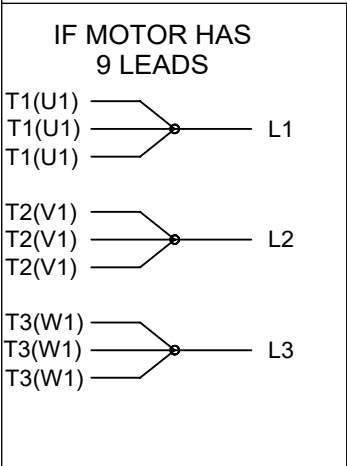
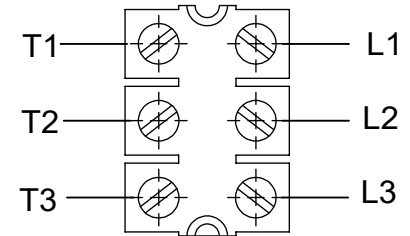
DASH	FRAME	B	C	AG	2F	BS	NO.	REVISION	BY & DATE	CHK	ANG	FINISH	SIZE	DRAWING NO.	PAGE	OF	REV.
1175	254UC	10.25	23.89	20.39	8.25	4.12							B	SS203928			
1350	256UC	12.00	25.64	22.14	10.00	5.00							B	SS203928			

		TOLERANCES UNLESS SPECIFIED		<b>MARATHON ELECTRIC</b>		DRAWN	RJW 01-04-2005									
		DEC.	INCHES			CHK	ML 01-04-2005									
		.X	±.1			APPD	LC 01-05-2005									
		.XX	±.02	TITLE OUTLINE - CAST COND. BOX		SCALE	1=4									
		.XXX	±.005	250UC FR. - BB - TS - C'FACE - TEFC		REF										
		.XXXX	±.0005	MAT'L		FMF										
		NO.	REVISION	BY & DATE		CHK	ANG ±7'30"									
		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	01-04-2005	CAD FILE	SS203928	SIZE	DRAWING NO.	PAGE	OF	REV.
						DIST	LB				B	SS203928				

THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'

TERMINAL BLOCK WHEN SPECIFIED

TO REVERSE ROTATION:  
INTERCHANGE ANY TWO LINE  
LEAD CONNECTIONS



VIEW OF TERMINAL END

**OPTIONAL CORD CONNECTION**

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022
REQUEST NUMBER DESCRIPTION DRAWING UPDATED		
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PRIMARY DIMENSIONS ARE INCH  
mm DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

		Regal Beloit America, Inc.	
DESCRIPTION <b>CONNECTION DIAGRAM</b> EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR			
MATERIAL		PROCESS/FINISH	
SIZE <b>A</b>	DRAWING NUMBER <b>EE7300</b>		SHEET 1 OF 1

**CERTIFICATION DATA SHEET**

**Model#:** 256UTFPA4027 AB  
**CONN. DIAGRAM:** A-EE7300  
**OUTLINE:** B-SS203928-1350

**WINDING#:** K2154249 R9 2  
**ASSEMBLY:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.46	1800	1765	256UC	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	12.5	ACROSS THE LINE	CONTINUOUS	F3	1.0	65	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82	3/4 LOAD PF: 78	1/2 LOAD PF: 68	90.2	SQ CAGE IND RUN	5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.8 LB-FT	80	60 LB-FT 201	81 LB-FT 272	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.1 LB-FT^2	192 LB-FT^2	20 SEC.	2	260 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	U	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	6207						

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

If Inverter equals NONE, contact factory for further information

\*  
N  
O  
T  
E  
S  
\*

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

DATE: 06/23/2017 07:27:11 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 20-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



256UTFPA4027

Submittal

Data @ 460 V

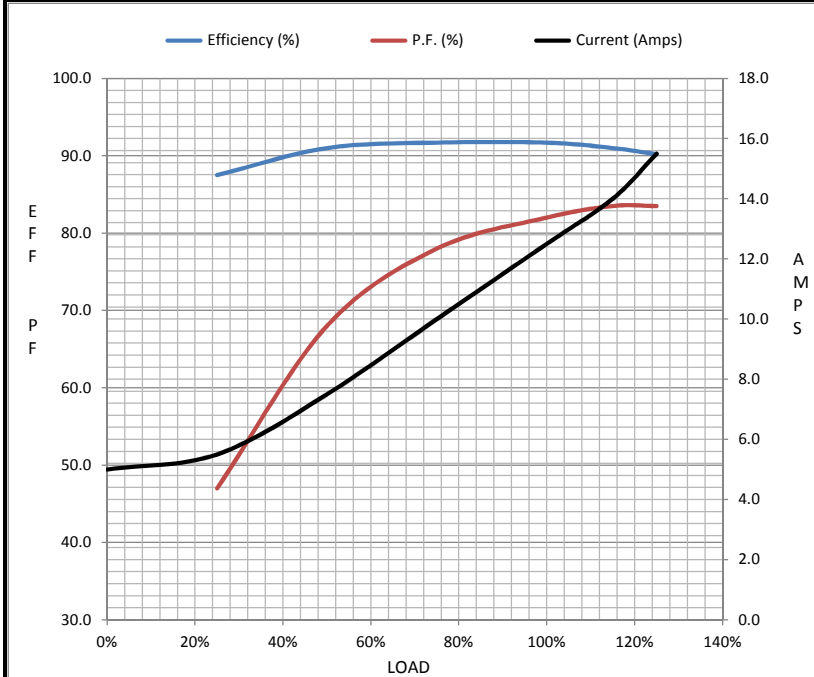
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.0	5.5	7.5	10.0	12.5	14.0	15.5	80.0
Torque (ft-lb)	0.00	7.5	14.5	22.0	29.8	34.5	37.5	60.0
RPM	1800	1790	1785	1775	1765	1,755	1750	0
Efficiency (%)		87.5	91.0	91.7	91.7	91.0	90.2	
P.F. (%)	6.5	47.0	68.0	78.0	82.0	83.5	83.5	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1765	1800
Current (Amps)	80.0	72.0	46.0	12.5	5.0
Torque (ft-lb)	60.0	54.0	81.0	29.8	0.00

Information Block				
HP	10.0			
Sync. RPM	1800			
Frame	256			
Enclosure	TEFC			
Construction	TFP			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	50 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	1.10 Lb-Ft <sup>2</sup>			
Ref Wdg	K2154249 R9			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS203928-1350			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.5400	0.4880	2.0930	3.2090	51.1200



Speed - Torque Curve

