PRODUCT INFORMATION PACKET

Model No: 256TTDR16027
Catalog No: E909A
20 HP, General Purpose Motors, 3 phase, 1800 RPM, 200 V, 256T Frame, DP
General Purpose Motors

marathon® Motors

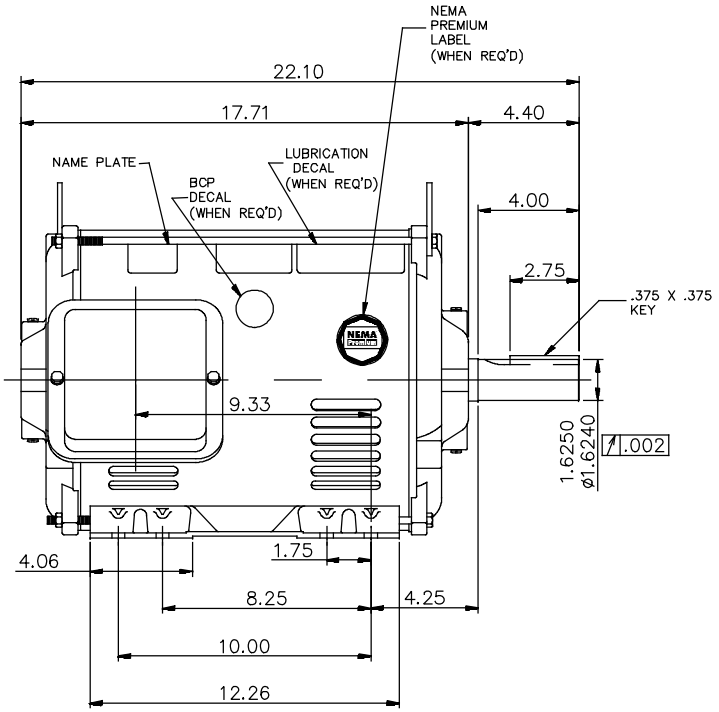
Nameplate Specifications

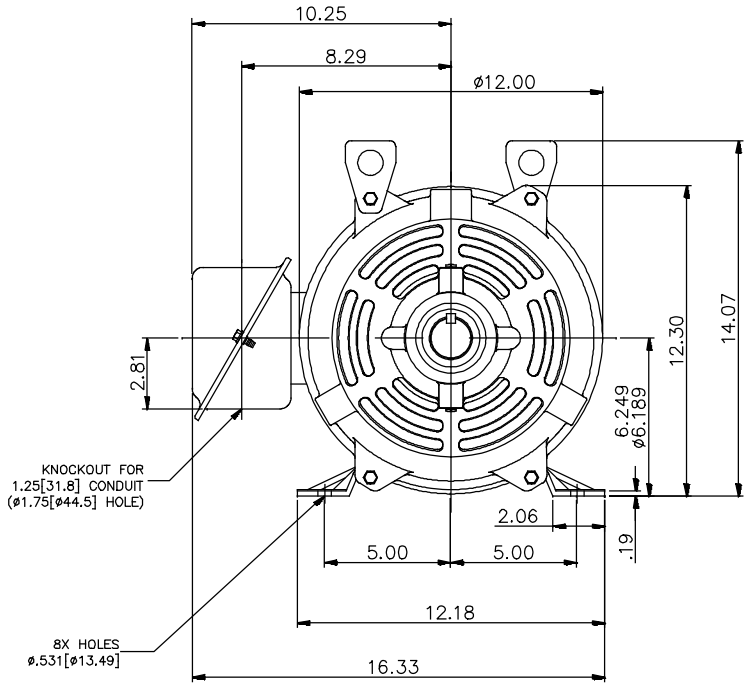
Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	200 V
Current	57.0 A	Speed	1770 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	80.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	256T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	22.10 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	037977-1300	Connection Drawing	D0000398-001

037977





NOTES:
1. CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
2. MOTOR IS SUITABLE FOR FIELD CONVERSION FROM AN F1 TO AN F2 CONDUIT BOX LOCATION.
3. MOTOR VENTILATION: AIR INTAKE THROUGH OPENINGS IN THE FACE OF EACH BRACKET AND EXHAUSTED THROUGH THE VENT SLOTS ON EACH END OF THE SHELL.

MOTOR DESCRIPTION:
3 PHASE OPEN DRIPPROOF STEEL SHELL 254T OR 256T MOUNTING. OTHER MOUNTING ORIENTATIONS ARE ACCEPTABLE; HOWEVER WHEN MOUNTED OTHER THAN HORIZONTAL; MOTOR WILL NOT BE DRIPPROOF AS DEFINED BY NEMA.

NO.	REVISION	BY & DATE	CHK
004	DECAL UPDATED AS PER ECR-0162503	GNK 09/14/2018	GNK
003	ADDED NAME PLATE	MVG 12/12/17	SR
002	CHANGED FROM 20 HP TO 15 HP	AS 01/19/17	ST
001	ADDED REGAL LOGO	SRK 02/23/16	GR

TOLERANCES UNLESS SPECIFIED

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

REGAL™ Regal Beloit America, Inc.

TITLE OUTLINE 15 HP

MAT'L.

FINISH

CAD FILE 037977

RFP

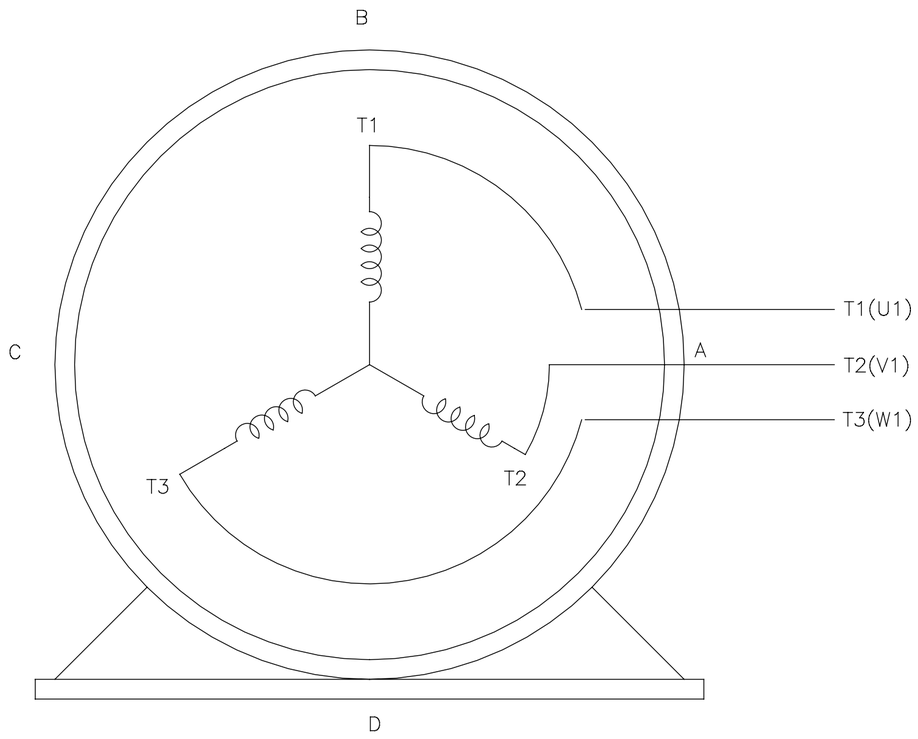
DIST LB

DRAWN	PVR 01/28/15
CHK	ST 01/28/15
APPD	
SCALE	1=4.2
REF	18748501-001
FMF	
PREV	

SIZE A | DRAWING NO. 037977 | PAGE 1 OF 1 | REV. 003

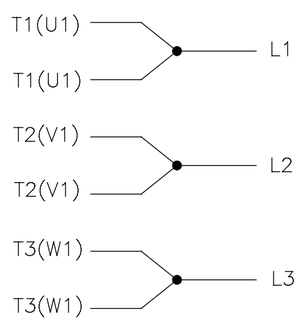
THREE PHASE – SINGLE VOLTAGE
MOTOR – CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

IF MOTOR HAS
6 LEADS



A–9806 DECAL

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION	REVISION BY	DATE
B	M.RODARTE	01–27–2016
ECO	APPROVED BY	DATE
0084243	M.RODARTE	01–27–2016
ECO DESCRIPTION		
UPDATE REVISION		

TOLERANCES UNLESS OTHERWISE SPECIFIED

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.02	[±0.51]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES .003/.015 [.076/.381]
CORNER FILLETS .02 [.51]
MACHINED SURFACES 125/ INCH 3.2/ mm
mm SHOWN IN [BRACKETS]

DRAWN BY:	H.SANCHEZ
DATE:	06–14–2012
APPROVED BY:	D.JAMARA
DATE:	06–14–2012
REFERENCE	.
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION: CONN DIAGRAM–EXTERNAL

MATERIAL	PROCESS/FINISH
.	.

SIZE	DWG NO	SHEET
C	D0000398–001	1

CERTIFICATION DATA SHEET

Model#:	256TTDR16027 AA	**WINDING#:**	BHR4T01 NONE 1
CONN. DIAGRAM:	D0000398-001	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	037977		

TYPICAL MOTOR PERFORMANCE DATA

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

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	57	ACROSS THE LINE	CONTINUOUS	B4	1.15	40	3300

FULL LOAD EFF: 93.6	3/4 LOAD EFF: 93.4	1/2 LOAD EFF: 93.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80.5	3/4 LOAD PF: 77.6	1/2 LOAD PF: 67.3	91.7	SQ CAGE IND RUN	23.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
58 LB-FT	322	115 LB-FT 193	160 LB-FT 269	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0 LB-FT^2	0 LB-FT^2	0 SEC.	0	0 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 6309	BALL 6207	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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

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

*
NOTES
*

DATE: 06/23/2017 05:31:44 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 16-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

256TTDR16027

Submittal

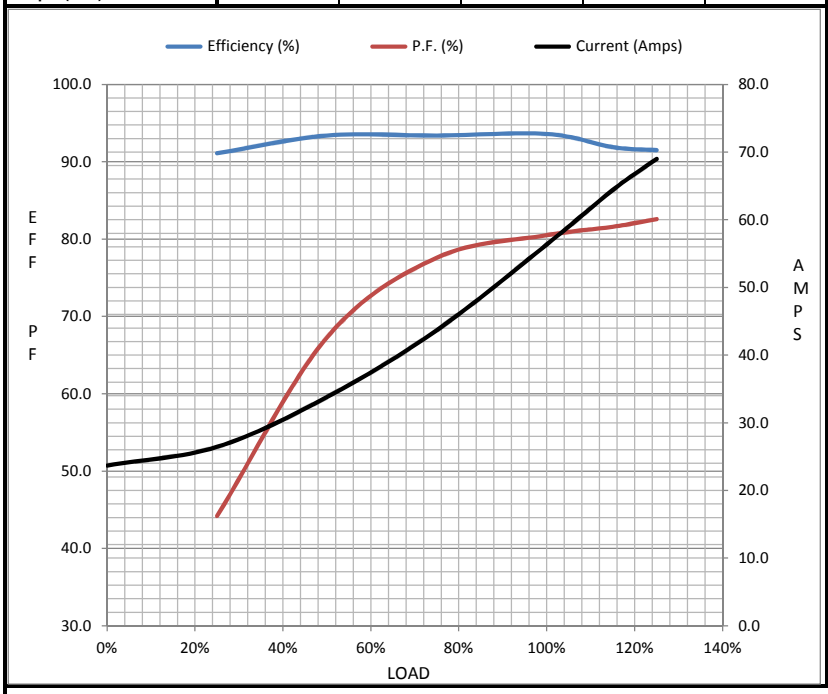
Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	23.7	26.5	33.8	43.7	56.4	64.4	69.0	322	
Torque (ft-lb)	0.00	14.5	29.0	43.5	58.0	66.7	72.5	115	
RPM	1800	1792	1786	1777	1770	1,765	1755	0	
Efficiency (%)		91.1	93.4	93.4	93.6	91.9	91.5		
P.F. (%)	6.1	44.2	67.3	77.6	80.5	81.6	82.6	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	885	1656	1770	1800
Current (Amps)	322	311	193	56.4	23.7
Torque (ft-lb)	115	113	160	58.0	0.00



Information Block

HP	20.0
Sync. RPM	1800
Frame	256
Enclosure	DP
Construction	TDR
Voltage	200 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	35 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	BHR4T01 NONE
Sound Pressure @ 1M	0 dBA
VFD Rating	NONE
Outline Dwg	TBD
Conn. Diag	D0000398-001

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve