

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 256TTDX16033
Catalog No: E723B-P
20,1800,DP,256T,3/60/230/460
Open Drip Proof (ODP)



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REGAL



Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	200-230/460 V
Current	56.0-49.0/24.5 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	D	Frame	256T
Enclosure	Drip Proof	Overload Protector	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		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	T
Overall Length	22.1 in	Shaft Diameter	1.625 in
Shaft Extension	4.4 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	610-0001	Connection Diagram	80022802

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CERTIFICATION DATA SHEET

Model#: 256TTDX16033 AA
 CONN. DIAGRAM: 80022802
 OUTLINE: 610-0001-1300

WINDING#: BHR4T01 NONE 3
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&20	14.9&14.9	1800	1765&1450	256T	DP	D	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	200- 230/460#200/ 400	56- 49/24.5&57.0/ 28.5	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 93.6&92.4	3/4 LOAD EFF: -	1/2 LOAD EFF: -	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81.5&82.0	3/4 LOAD PF: -	1/2 LOAD PF: -	0	SQ CAGE INV/RATED	/

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
- LB-FT	/	- LB-FT-	- LB-FT-	-

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 BALL 6309	OPE BALL POLYREX EM 6207	T	NONE	NONE	4140 STRESSPROOF (C-214)	ROLLED STEEL

THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE in HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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If Inverter equals NONE contact factory for further information

INVERTER TORQUE: VARIABLE 10:1
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

** Subject to change without notice.

Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA

256TTDX16033

Submittal
 Data @ 460 V



Load	Motor Load Data						
	0%	25%	50%	75%	100%	115%	125%
Current (Amps)	10.3	11.5	14.7	19.0	24.5	28.0	30.0
Torque (ft-lb)	0.0	14.5	29.0	43.5	58.0	66.7	72.5
RPM	1800	1792	1786	1777	1770	1765	1755
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
LR							

Motor Speed Data

LR	Pull-Up	BD	Rated	Idle
0	885	1656	1770	1800
Current (Amps)	140	135	84.0	24.5
Torque (ft-lb)	115	113	160	58.0

Information Block

HP	20.0			
Sync. RPM	1800			
Frame	256			
Enclosure	DP			
Construction	TDR			
Voltage	3-230/460/200/4V			
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			
Motor/Shaft wt?	0.00 LB-FF?			
Ref Wdg	BHFR101 NONE			
Sound Pressure @ 1M	0 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	610-0001-1300			
Conn. Diag	8022802			
Additional Specifications:	0			
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

