

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256TTDN16049

Catalog No: U438A

XRI® General Purpose General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 256TC Frame, DP



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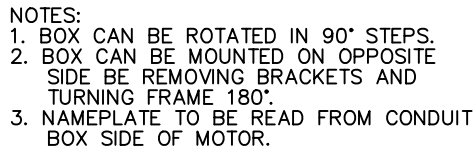
RegalRexnord

Nameplate Specifications

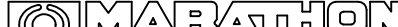
Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	1775 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	256TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	48/24 & 45/22.5 A	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	F
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.12 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	24.81 in
Frame Length	14.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308AA	Outline Drawing	B-SS203743-1425



DASH	FRAME	C	AG	BS	B	2F
1275	254TC	23.31	19.57	5.25	11.75	8.25
1425	256TC	24.81	21.07	6.00	13.25	10.00

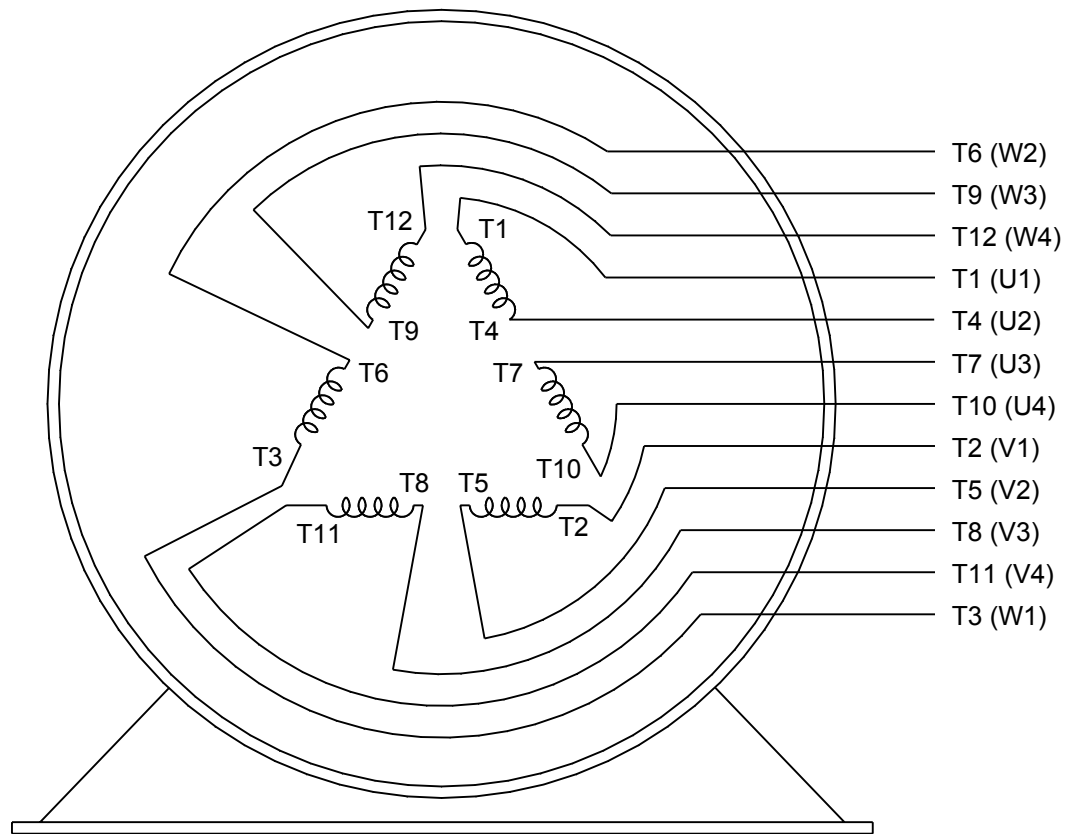
					TOLERANCES UNLESS SPECIFIED		DRAWN TAT 04-28-2004					
				DEC.	INCHES		CHK	ML	04-29-2004			
				.X	±.1		APPD	BW	04-29-2004			
				.XX	±.03		TITLE OUTLINE - CAST IRON C'BOX					
				.XXX	±.005		250T FR. - DR.PR.					
				.XXXX	±.0005		MAT'L					
NO.	REVISION	BY & DATE	CHK	ANG	±7°30"	FINISH	PREV					
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 ss203743				
							DIST	LB	SIZE B	DRAWING NO. SS203743	PAGE OF	REV.



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ
DATE 01-12-1994
APPROVED BY GK
DATE 01-14-1994
REFERENCE
THIRD ANGLE PROJECTION

 Regal Beloit America, Inc.		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7308AA	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 256TTDN16049 BA
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS203743-1425

WINDING#: K2564317 NONE 6
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	1800	1775&1475	256TC	DP	F	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	48/24&45/22.5	PWS(LV ONLY) & YDRUN	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 93&92.4	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82.5&82	3/4 LOAD PF: 78.5	1/2 LOAD PF: 69	91	SQ CAGE IND RUN	19 / 9.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59 LB-FT	290 / 145	115 LB-FT 195	150 LB-FT 254	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
70 dBA	80 dBA	3.2 LB-FT^2	- LB-FT^2	20 SEC.	-	425 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	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	6208						

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 05:29:23 AM
 FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



256TTDN16049

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.5	11.0	14.5	19.0	24.0	27.5	30.0	145	
Torque (ft-lb)	0.00	14.5	29.5	44.0	59.0	68.5	74.5	115	
RPM	1800	1795	1788	1780	1775	1,765	1760	0	
Efficiency (%)		88.5	92.4	93.0	93.0	92.4	91.7		
P.F. (%)	5.5	47.0	69.0	78.5	82.5	84.0	84.5	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	900	1675	1775	1800	HP	20.0			
Current (Amps)	145	135	100	24.0	9.5	Sync. RPM	1800			
Torque (ft-lb)	115	100	150	59.0	0.00	Frame	256			
Efficiency (%) P.F. (%) Current (Amps) Y-axis: Efficiency (%) 30.0 to 100.0, P.F. (%) 30.0 to 100.0, Current (Amps) 0.0 to 35.0 X-axis: LOAD 0% to 140%						Enclosure	DP			
						Construction	TDN			
						Voltage	30/460#190/381 V			
						Frequency	60 Hz			
						Design	B			
						LR Code letter	G			
						Service Factor	1.15			
						Temp Rise @ FL	25 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk ²	3.2 Lb-Ft ²			
						Ref Wdg	K2564317 NONE			
						Sound Pressure @ 1M	70 dBA			
						VFD Rating	NONE			
						Outline Dwg	B-SS203743-1425			
						Conn. Diag	A-EE7308AA			
Additional Specifications: 0 0 EQUIV CKT (OHMS / PHASE)						R1	R2	X1	X2	Xm
						0.2900	0.1790	1.0440	1.6050	29.9620

Speed -Torque Curve

