

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 254TTDX4010

Catalog No: U215

20 HP Close-Coupled Pump Motor, 3 phase, 3600 RPM, 200 V, 254JPV Frame, ODP
Close-Coupled Pump Motors



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RegalRexnord

Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	200 V
Current	53.0 A	Speed	3520 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Power Factor	88.6
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	F
Frame	254JPV	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
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	2	Rotation	Reversible
Resistance Main	.485 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JP	Overall Length	26.58 in
Frame Length	13.40 in	Shaft Diameter	1.250 in
Shaft Extension	8.15 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	A-SS86526-1340	Connection Drawing	A-EE7300U

DASH	FR.	C	BV	AG
1340	254JP	26.58	12.68	18.45
1515	254/256JP	28.33	14.43	20.20

1. NAMEPLATE TO BE READ FROM SHAFT EXT. END OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.

				TOLERANCES UNLESS SPECIFIED			DRAWN DJK 10-29-1993				
10	UPDATED DRAWING	TJW 04/27/2007		DEC.	INCHES		CHK ML 11-01-1993				
9	REDRAWN IN AUTOCAD	TAT 07-13-2004	ML	.X	±.1	TITLE OUTLINE 250TC FR.-BB-TS-DR.PR.-VERT. C' FACE	APPD DRN 11-01-1993				
8	REVISED 2.70 DIM. TO 2.64 CN 29200-185	CAV 02-24-2000		.XX	±.03		SCALE 1=5				
7	CORRECTED C'BOX ROTATION CN 28427	CAV 02-22-2000		.XXX	±.005		REF				
6	UPDATED CONDUIT BOX CN 28427	TJB 02-09-2000		.XXXX	±.0005		FMF				
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 ss86526		SIZE	DRAWING NO.	PAGE	OF	REV.
			DIST LB				A	SS86526			

IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH. mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200^{INCH} 5.1^{mm} mm SHOWN IN [BRACKETS]	DRAWN BY DRS	REGAL™ Regal Beloit America, Inc.	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE		
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015		DATE 09-27-1996				
ECO DESCRIPTION UPDATED TO SOLIDWORKS				APPROVED BY GK				
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				REFERENCE	MATERIAL			
			THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1	

CERTIFICATION DATA SHEET

Model#: 254TTDX4010 DD
 CONN. DIAGRAM: A-EE7300U
 OUTLINE: A-SS86526-1340

WINDING#: K2152191 NONE 3
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20	14.9	3600	3520	254JPV	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	53	ACROSS THE LINE	CONTINUOUS	B3	1.15	40	3300

FULL LOAD EFF: 91	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.6	3/4 LOAD PF: 85.5	1/2 LOAD PF: 78	89.5	SQ CAGE IND RUN	16.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
30 LB-FT	331.2	52.5 LB-FT 175	86.5 LB-FT 288	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	0.65 LB-FT^2	18 LB-FT^2	15 SEC.	2	160 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6309	6208	POLYREX EM	JP	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

* 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 03:33:40 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



254TTDX4010

Submittal

Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.1	20.7	31.1	41.4	53.1	61.0	67.9	331	
Torque (ft-lb)	0.00	7.5	15.0	22.2	30.0	34.5	37.5	52.5	
RPM	3600	3580	3565	3545	3520	3,515	3490	0	
Efficiency (%)		87.0	90.2	91.7	91.0	91.0	90.2		
P.F. (%)	9.0	60.0	78.0	85.5	88.6	89.0	89.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block					
Speed (RPM)	0	1800	3050	3520	3600	HP	20.0				
Current (Amps)	331	299	207	53.1	16.1	Sync. RPM	3600				
Torque (ft-lb)	52.5	48.0	86.5	30.0	0.00	Frame	254				
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Enclosure	DP				
						Construction	TDX				
						Voltage	200 V				
						Frequency	60 Hz				
						Design	A				
						LR Code letter	F				
						Service Factor	1.15				
						Temp Rise @ FL	45 ° C				
						Duty	CONT				
						Ambient	40 ° C				
						Elevation	1,000 feet				
						Rotor/Shaft wk ²	0.65 Lb-Ft ²				
						Ref Wdg	K2152191 NONE				
						Sound Pressure @ 1M	78 dBA				
						VFD Rating	NONE				
						Outline Dwg	A-SS86526-1340				
						Conn. Diag	A-EE7300U				
Additional Specifications:											
0											
0											
EQUIV CKT (OHMS / PHASE)											
R1		R2		X1		X2		Xm			
0.0540		0.0430		0.2050		0.2170		6.6300			

Speed -Torque Curve

