

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TSTDP16032

Catalog No: U444A

XRI® General Purpose General Purpose Motor, 40 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 324TSC Frame,
DP



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Nameplate Specifications

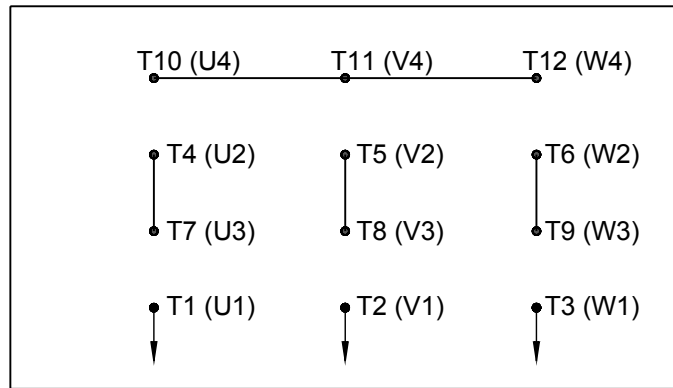
Phase	3	Output HP	40 Hp
Output KW	30.0 kW	Voltage	230/460 V
Speed	1775 r/min	Service Factor	1.15
Frame	324TSC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.1 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	100.0/50.0 A	Power Factor	80
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

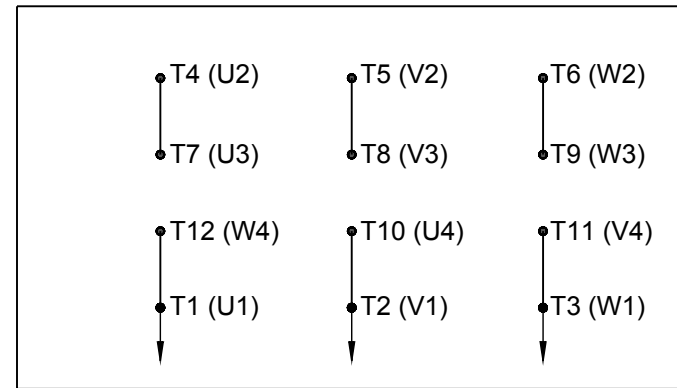
Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.155 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	24.50 in
Shaft Diameter	2.125 in	Shaft Extension	3.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	NONE	Connection Drawing	EE7358

HIGH VOLTAGE

WYE START

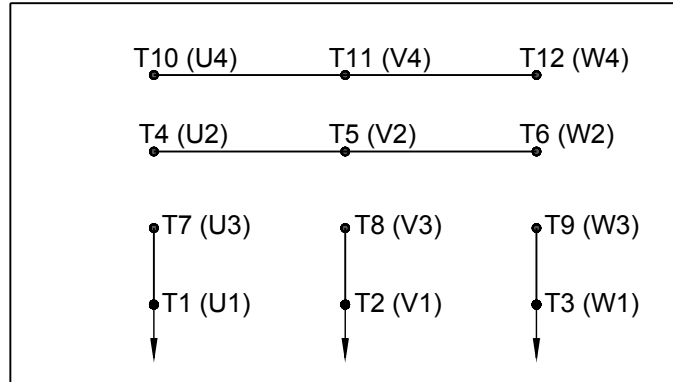


DELTA RUN

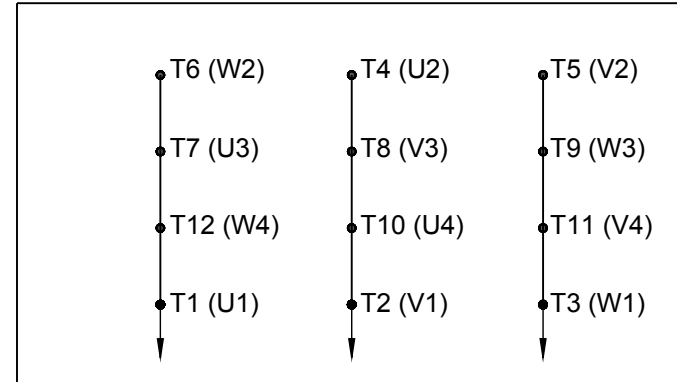


LOW VOLTAGE

WYE START



DELTA RUN

4/2 CKTY $\triangle$

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016		DRAWN BY BLR	 Regal Beloit America, Inc.			
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016		DATE 03-09-1998	DESCRIPTION CONN DIAGRAM-EXTERNAL 12 LEAD - DUAL VOLT. - WYE START - DELTA RUN			
ECO DESCRIPTION ADDED IEC MARKINGS				APPROVED BY GK				
				DATE 03-23-1998				
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				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7358	

CERTIFICATION DATA SHEET

Model#: 324TSTDP16032 AA
 CONN. DIAGRAM: NONE
 OUTLINE: NONE

WINDING#: K2864212 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	1800	1775&1475	324TSC	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	100/50&92/46	PWS(LV ONLY) & YDRUN	CONTINUOU S	B3	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&93	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80&80	3/4 LOAD PF: 75	1/2 LOAD PF: 64	92.4	SQ CAGE IND RUN	44 / 22

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
119 LB-FT	570 / 285	238 LB-FT 200	310 LB-FT 261	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	5.4 LB-FT^2	- LB-FT^2	20 SEC.	-	525 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	STANDARD

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
NONE	NONE	STANDARD	TS	NONE	NONE	STANDARD	CAST IRON

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
 - FT-LB NONE V NONE Hz

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 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

