## **PRODUCT INFORMATION PACKET**

### Model No: 254THTL5726 Catalog No: Y549 15,1800,TENV,254TC,3/60/230/460 1000:1 Speed Ratio



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies. ©2019 Regal Beloit Corporation, All Rights Reserved. MC017097E







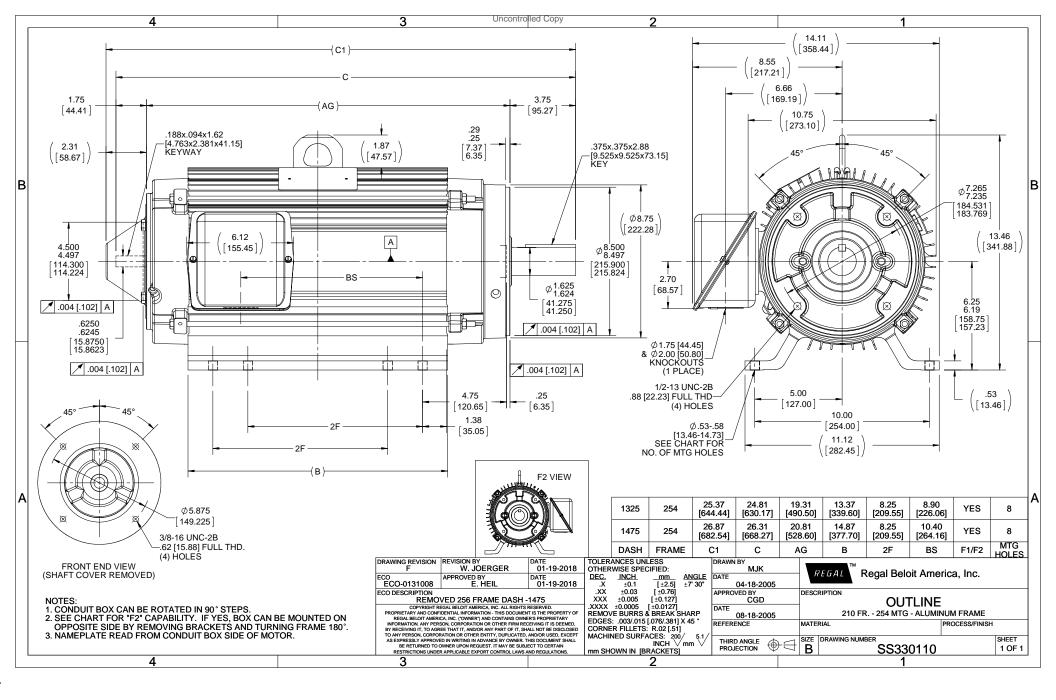
### **Nameplate Specifications**

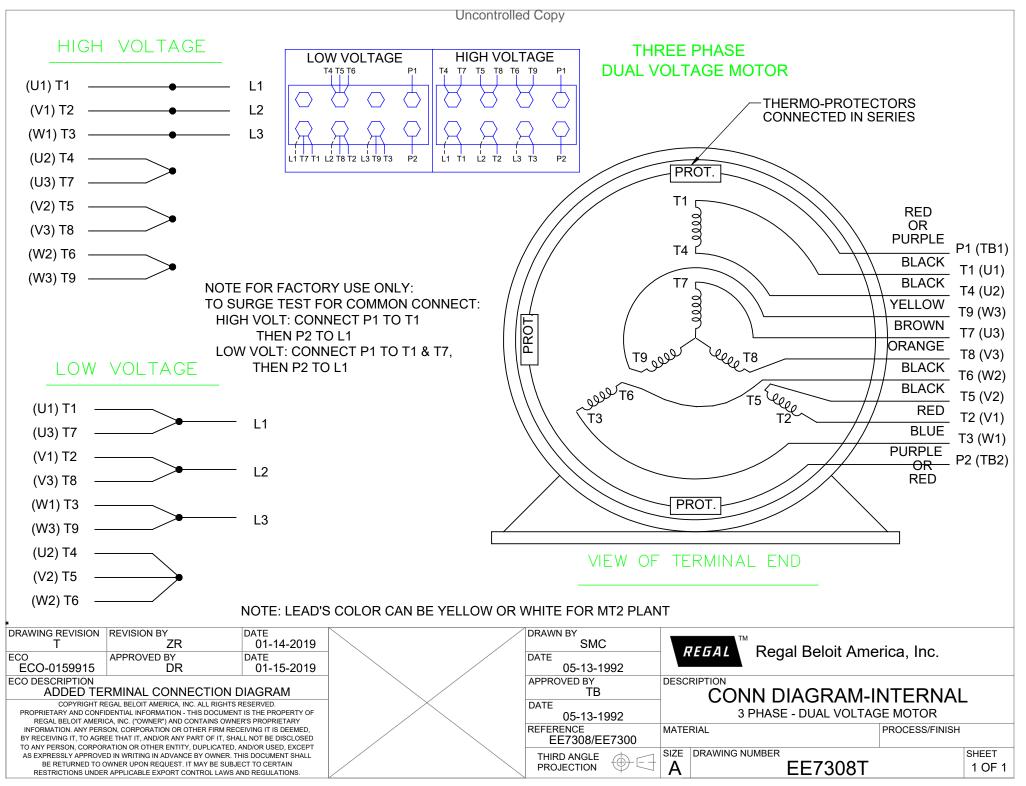
Output HP	15 HP	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	40.0/20.0 A	Speed	1765 RPM
Service Factor	1	Phase	3
Efficiency	91.7 %	Duty	Continous
Insulation Class	н	Design Code	INV
KVA Code	К	Frame	254TC
Enclosure	Totally Enclosed Non Ventilated	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6206	UL	Recognized
		0F	Y
CSA	Y	CE	Ť

### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Aluminum	Shaft Type	т
Overall Length	26.87 in	Frame Length	14.75 in
Shaft Diameter	1.625 in	Shaft Extension	3.75 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	B-SS330110-1475	Connection Diagram	A-EE7308T

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 08/27/2019





$\sim$
<b>U</b>
—
<u></u>
עכ
_
Ē
<u> </u>
ъ
-
-
ō
≚
2
_
5
P.
-
⋗
S.,
co 🛛
÷.
± .
m
m
-

OUTLINE:	CONN. DIAGRAM:	Model#:
B-SS330110-1475	A-EE7308T	254THTL5726 FH

WINDING#: ASSEMBLY:

F1/F2 CAPABLE K2154371 NONE 1

## **TYPICAL MOTOR PERFORMANCE DATA**

		_	Ŀ					1
44.6 LB	F.L. TOR	FULL LOAD P	ULL LOAD EF		ω	P	15	壭
1 T	QUE	F: 76	F: 91.7		60	Ηz		
		3/4	3/4				11 <u>.</u> 2	ƙŴ
	ГОСК	LOAD	_OAD E		230/46	VOLT		
310 / 1	ED ROT	PF: 70	FF: 91.8		50	Ś	18	SYNC
55	TOR AN		 		40/2	FL AN	00	SYNC. RPM
	PS	1/2 LOA	1/2 LOA		0			]
		DPF: 5	D EFF:	CNL	INVER	START	1765	F.L. RPM
140 LB-FT 314	L.R. TORQUE	6.4	90	-		TYPE		3
				v.	CONTI	D L	25	H H
			91	GTD. EI		NUOU	7	54TC
			Ŧ		т	z		 
170 LB-	B.D. TO	SC	]]		4	SL	TEN	ENCLOSURE
-FT 381	DRQUE	) CAGE	ELEC		_	s	<	URE
		INV DL	TYPE		0	'n		হ
		JTY				A	~	KVA CODE
	F		NOL		40	1B°C		<u>m</u> 
105	RISE°C	22 / 11	-OAD A		(.)	ELE	Z	DESIGN
APPROX MOTOR			MPS		1300	VATION	<	GN
	44.6 LB-FT 310 / 155 140 LB-FT 314 170 LB-FT 381 105	E     LOCKED ROTOR AMPS     L.R. TORQUE     B.D. TORQUE     F.L.       310 / 155     140 LB-FT 314     170 LB-FT 381     170 LB-FT 381	Image: Sign of the system     1/2 LOAD PF: 56.4     91     SQ CAGE INV DUTY       LOCKED ROTOR AMPS     L.R. TORQUE     B.D. TORQUE     F.L.       310 / 155     140 LB-FT 314     170 LB-FT 381     .	7   3/4 LOAD EFF: 91.8   1/2 LOAD EFF: 90   GTD. EFF   ELEC. TYPE   NOI     3/4 LOAD PF: 70   1/2 LOAD PF: 56.4   91   SQ CAGE INV DUTY	3/4 LOAD EFF: 91.8 1/2 LOAD EFF: 90 GTD. EFF ELEC. TYPE   3/4 LOAD PF: 70 1/2 LOAD PF: 56.4 91 SQ CAGE INV DUTY   LOCKED ROTOR AMPS L.R. TORQUE B.D. TORQUE   310 / 155 140 LB-FT 314 170 LB-FT 381	230/460   40/20   INVERTER   CONTINUOU   H4   1.0   40     3/4 LOAD EFF: 91.8   1/2 LOAD EFF: 90   GTD. EFF   ELEC. TYPE   10   10   40     3/4 LOAD PF: 70   1/2 LOAD EFF: 56.4   91   SQ CAGE INV DUTY   91   SQ CAGE INV DUTY   10     LOCKED ROTOR AMPS   L.R. TORQUE   B.D. TORQUE   B.D. TORQUE   10   170 LB-FT 381   170 LB-FT 381	VOLTS     FL AMPS     START TYPE     DUTY     INSL     S.F     AMB       230/460     40/20     INVERTER     CONTINUOU     H4     1.0     40     40       3/4 LOAD EFF: 91.8     1/2 LOAD EFF: 90     GTD. EFF     ELEC. TYPE     40     40     40       3/4 LOAD EFF: 70     1/2 LOAD EFF: 90     GTD. EFF     ELEC. TYPE     40     40       3/4 LOAD FF: 70     1/2 LOAD FF: 56.4     91     SQ CAGE INV DUTY     40       3/4 LOAD FF: 70     1/2 LOAD FF: 56.4     91     SQ CAGE INV DUTY     40       3/4 LOAD FF: 70     1/2 LOAD FF: 56.4     91     SQ CAGE INV DUTY     40       3/4 LOAD FF: 70     1/2 LOAD FF: 56.4     91     SQ CAGE INV DUTY     40       3/4 LOAD FF: 70     1/2 LOAD FF: 56.4     91     SQ CAGE INV DUTY     40       3/4 LOAD FF: 70     1/2 LOAD FF: 56.4     91     SQ CAGE INV DUTY     40       3/4 LOAD FF: 70     1/2 LOAD FF: 56.4     91     SQ CAGE INV DUTY     40	11.2   1800   1765   254TC   TENV   K   K     VOLTS   FLAMPS   START TYPE   DUTY   INSL   S.F   AMB°C     230/460   40/20   INVERTER   CONTINUOU   H4   1.0   40     334 LOAD EFF: 91.8   1/2 LOAD EFF: 90   GTD. EFF   ELEC. TYPE   NO LO     3/4 LOAD PF: 70   1/2 LOAD FF: 56.4   91   SQ CAGE INV DUTY   2     LOCKED ROTOR AMPS   L.R. TORQUE   B.D. TORQUE   F.L. RI     310 / 155   140 LB-FT 314   170 LB-FT 381   100

# EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

62 dBA

72 dBA

1.6 LB-FT^2

0 LB-FT^2

0 SEC

0

229 LBS.

2079	RM	0.31374	R1	
18.9	ZREF	0.31563	R2	
4	XR	1.04706	ĽX	
0.0115	TD	1.5687	X2	
0.2	TD0	22.1508	XM	

2079	RM		0.31374	R1
18.9	ZREF		0.31563	RŽ
4	XR		1.04706	X1
0.0115	TD		1.5687	XZ
0.2	TD0		22.1508	MX M
L		I		·

2079	RM		0.31374	R1
18.9	ZREF		0.31563	R2
4	XR		1.04706	X1
0.0115	TD		1.5687	X2
0.2	TD0		22.1508	XM
L		1		·

SUPPLEMENTAL INFORMATION \*\*

DE BRACKET ODE BRACKET

MOUNT TYPE rigid

ORIENTATION

SEVERE DUTY

HAZARDOUS LOCATION NONE

SCREENS

PAINT

HORIZONTAL

FALSE

FALSE DRIP

NONE

BLACK (ENAMEL)

C-FACE

BRAKE OR ENCODER

	R2	X1	X2	XM
374	0.31563	1.04706	1.5687	22.1508
M	ZREF	XR	TD	TD0
79	18.9	4	0.0115	0.2

S	ш	-	0	z

ENCODER: PROVISIONS ONLY NORTHSTAR ST56 NONE NONE PPR

INV. HP SPEED RANGE: 2.0 X BASE SPEED INVERTER TORQUE: CONSTANT 1000:1 If Inverter equals NONE, contact factory for further

BRAKE: PROVISIONS ONLY NONE P/N NONE

NONE

\*

\*

THERMOSTATS TSTATS (N/C)

PROTECTORS

WDG RTDs

BRG RTDs

THERMISTORS

CONTROL

SPACE /n HEATERS

THERMO-PROTECTORS

NOT

NONE

NONE

NONE

FALSE

NONE VOLTS

BALL 6309

> BALL OPE

POLYREX EM

-

NONE

NONE

1045 HOT ROLLED (C-204)

ALUMINUM MATERIAL

6206

臣

BEARINGS

GREASE

SHAFT TYPE

SPECIAL DE

SPECIAL ODE

SHAFT MATERIAL

FRAME

NONE NONE NONE FT-LB

DATE: 06/23/2017 01:53:21 AM FORM 3531 REV.3 02/07/99 \*\* Subject to change without notice.

NONE V NONE Hz Uncontrolled Copy

