

PRODUCT INFORMATION PACKET

Model No: 286TTGCD6528

Catalog No: C504

Explosion Proof Motor, 30 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 286TC Frame, EPFC



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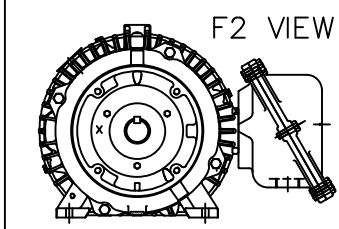
Nameplate Specifications


Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	230/460 V
Current	71.0/35.5 A	Speed	1770 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286TC	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	50 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.27 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.875 in
Assembly/Box Mounting	F1 ONLY		
Connection Drawing	EE7308T	Outline Drawing	SS311009-1425

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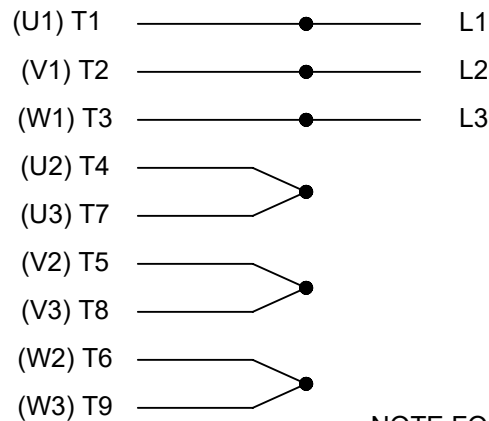


				TOLERANCES UNLESS SPECIFIED				DRAWN DA 07-29-1999				
				DEC. INCHES				CHK ML 07-30-1999				
				.X ±.1				APPD SW 07-30-1999				
3	ADDED F2 VIEW	MU6608B	RJW 04-25-2005	ML	.XX ±.03	TITLE OUTLINE - EXP. PR - TGN 280TC FR. - BB - STD. - 12.50 LAM			SCALE 1=5			
2	UPDATED C'BOX GEOMETRY / CASTING CHANGE	CN29010	DRS 01-30-2000	.XXX	±.005					REF		
1	NEW DRAWING - DES/DEV		DA 07-29-1999	.XXXX	±.0005	MAT'L			FMF			
NO.	REVISION		BY & DATE	CHK	ANG	±7°30"	FINISH			PREV		
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							DIST LB-BR					

ERROR: undefined
OFFENDING COMMAND: Psc

STACK:

HIGH VOLTAGE



NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1

LOW VOLTAGE

THREE PHASE
DUAL VOLTAGE MOTOR

VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019

ADDED TERMINAL CONNECTION DIAGRAM

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DRAWN BY
 SMC

DATE
 05-13-1992

APPROVED BY
 TB

DATE
 05-13-1992

REFERENCE
 EE7308/EE7300

THIRD ANGLE
 PROJECTION



Regal Beloit America, Inc.

DESCRIPTION

CONN DIAGRAM-INTERNAL
 3 PHASE - DUAL VOLTAGE MOTOR

MATERIAL

PROCESS/FINISH

SIZE
 A

DRAWING NUMBER

EE7308T

SHEET
 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:**ORDER #:****CONN. DIAGRAM:****OUTLINE:****WINDING:****SPEED:**

EE7308T

SS311009-1425

HA31804013

NONE

7

CUSTOMER P.O. #:**REFERENCE MODEL #:**

CAT #:

CUSTOMER PART #:**MOUNTING:**

286TTGCD6528

C504

F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1770	286TC	EPFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	71/35.5&71/35.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	93.6	3/4 LD EFF	93.6	1/2 LD EFF	93.0	GTD EFF	93.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	84.0	3/4 LD PF	81.0	1/2 LD PF	72.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
89.0 LB-FT	215	169 LB-FT	235 LB-FT	65

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APPROX.	MOTOR WGT
75 dBA	84 dBA		5.7 LB-FT ²	225 LB-FT ²	20 SEC.	2	600	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	ROOF CL I GR C&D CL II	NO	NONE	BLUE - RAL 5003 (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON
ODE BALL							
6311							
6210							

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE	HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE		NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.175	0.125	0.671	0.94	20.318	0.080	ODE

* N O T E S *					INVERTER TORQUE: CONSTANT 10:1/VARIABLE 10:1				
					INV. HP SPEED RANGE: NONE				
					ENCODER: NONE				
					NONE				
					NONE PPR				
PREPARED BY: _____					BRAKE: NONE				
DATE: 8/30/2021					NONE				
					FT-LB: NA				
					VOLTAGE: NONE				
					UL: NO LETTER - ALL BRANDS-UL LISTED AND CSA CERTIFIED DIV. 1 XP MOTORS				
FORM: 3531 REV 4 2/27/06									

