

PRODUCT INFORMATION PACKET



Model No: 284TTGN7027
Catalog No: 284TTGN7027
25,1800,EPFC,284TCV,3/60/230/460

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Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	63.0/31.5 A	Speed	1772 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	81.6
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Frame	284TCV	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	311	Opp Drive End Bearing Size	210
CSA	N	CE	N
IP Code	54	Hazardous Location	EXP PROOF CL I GR D CL II GR F&G T3B
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.26 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-SS311015-1475	Connection Drawing	A-EE7308T

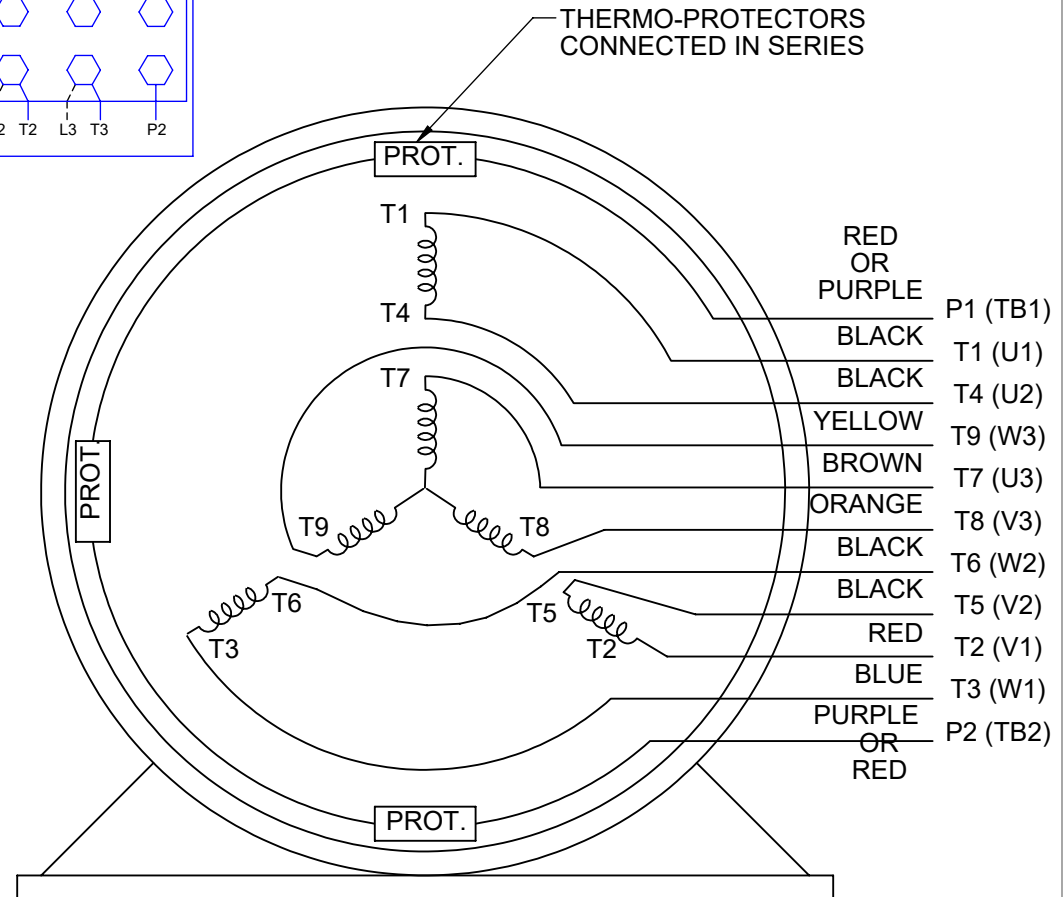
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HIGH VOLTAGE



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

ECO DESCRIPTION
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

Data Sheet

Date: 2/2/2023
Customer:
Attention:
Submitted by:



284TTGN7027
90975 FAN
Submittal
Data @ 460 V

Motor Load Data

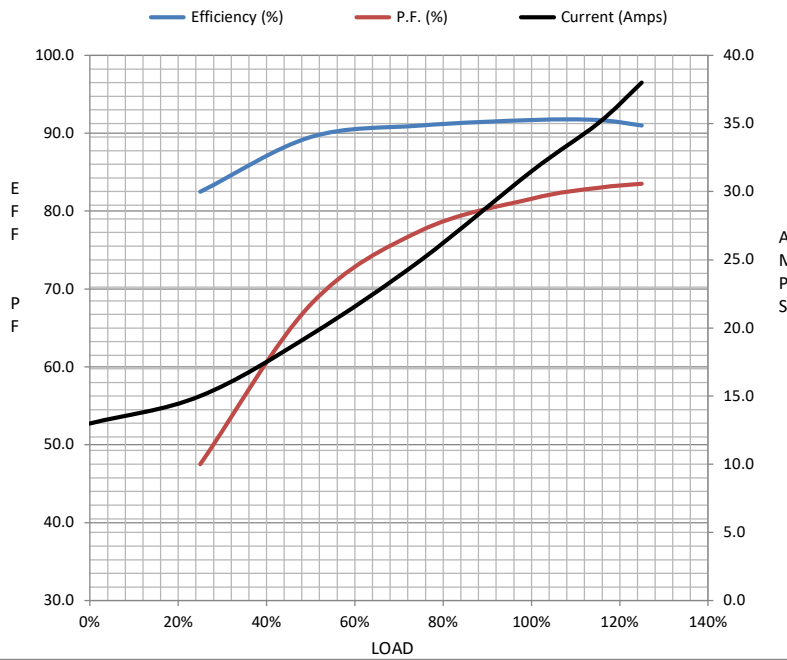
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	13.0	15.0	19.5	25.0	31.5	35.0	38.0	182	
Torque (ft-lb)	0.00	18.5	37.0	55.5	74.0	85.5	93.0	135	
RPM	1800	1792	1786	1780	1772	1,768	1764	0	
Efficiency (%)		82.5	89.5	91.0	91.7	91.7	91.0		
P.F. (%)	8.5	47.5	68.0	77.5	81.6	83.0	83.5	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	886	1665	1772	1800
Current (Amps)	182	164	110	31.5	13.0
Torque (ft-lb)	135	115	205	74.0	0.00

Information Block

HP	25.0
Sync. RPM	1800
Frame	284
Enclosure	EPFC
Construction	TFN
Voltage	230/460 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1
Temp Rise @ FL	55 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk ²	4.2 Lb-Ft ²
Ref Wdg	K2844124 NONE
Sound Pressure @ 1M	66 dBA
VFD Rating	NONE
Outline Dwg	B-SS311015-1475
Conn. Diag	A-EE7308T
Additional Specifications:	
0	
0	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.1710	0.1430
X1	X2
0.8540	1.0510
Xm	20.1100



Speed -Torque Curve

