

# PRODUCT INFORMATION PACKET

Model No: 145TTGN6576

Catalog No: U039A

1 HP Explosion Proof Motor, 3 phase, 1200 RPM, 230/460 V, 145T Frame, EPFC  
Explosion Proof NEMA Motors



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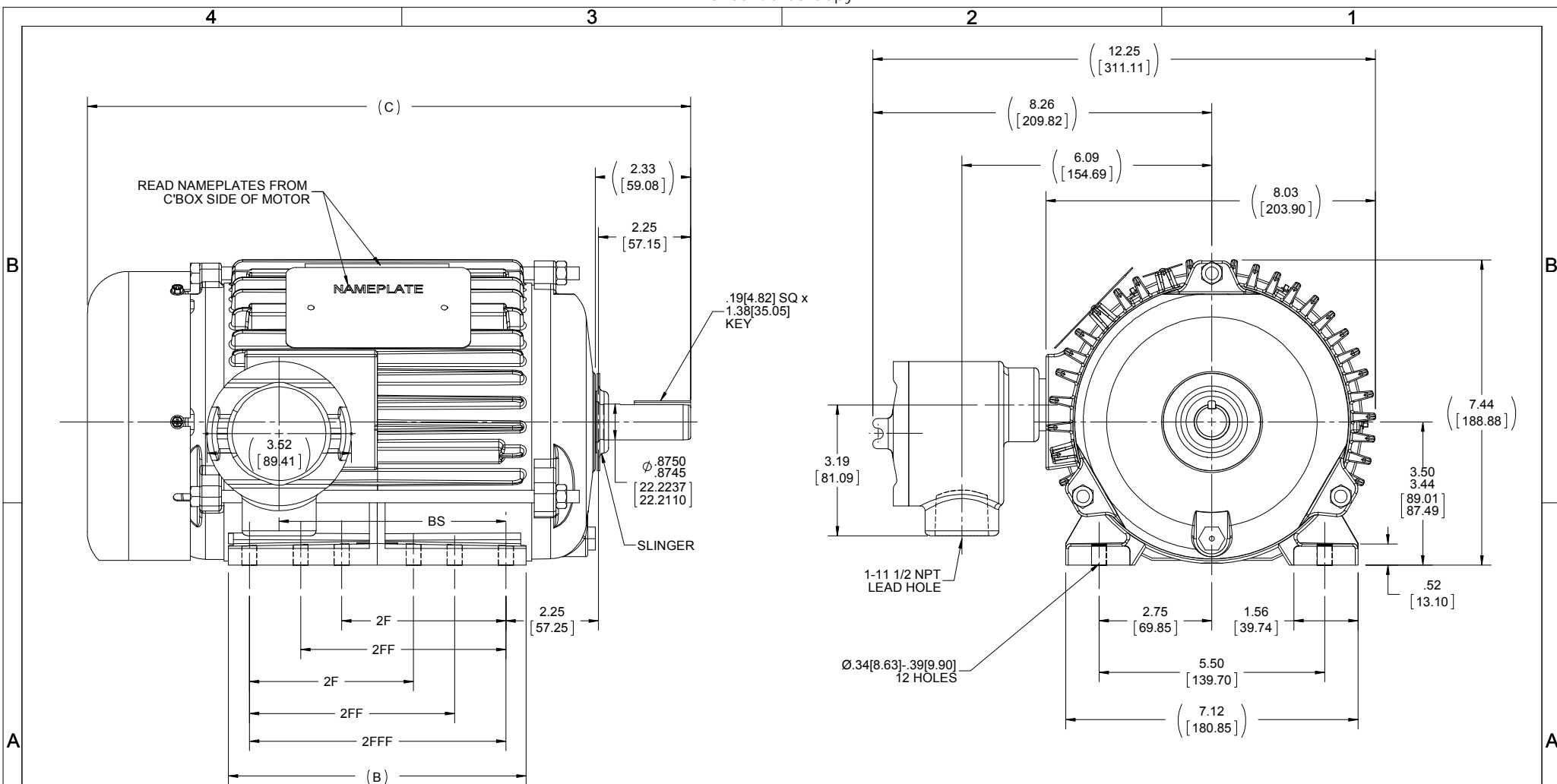
**REGAL**

### Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3.6/1.8 A	Speed	1155 rpm
Service Factor	1.15	Phase	3
Efficiency	82.5 %	Power Factor	63
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	145T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostats (N/C)	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR D CL II GR F&G T3B		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	14.73 in
Frame Length	7.50 in	Shaft Diameter	0.875 in
Shaft Extension	2.31 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	A-108734-750	Connection Drawing	A-EE7308T



DASH	C	B	BS	2F	2FF	2FFF
750	14.70[373.38]	7.25[184.15]	5.53[140.46]	4.00[101.60]	5.00[127]	6.25[158.75]

DRAWING REVISION B	REVISION BY KHADHAR	DATE 01-29-2019
ECO ECO-0160238	APPROVED BY UD	DATE 01-29-2019
ECO DESCRIPTION ADDED SLINGER		

TOLERANCES UNLESS OTHERWISE SPECIFIED:

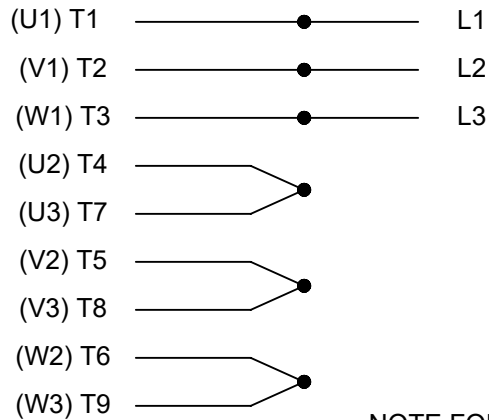
DEC.	INCH	mm	ANGLE
.X	+0.1	[+2.5]	±7-30°
.XX	+0.03	[+0.76]	
.XXX	+0.005	[+0.127]	
.XXXX	+0.0005	[+0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°  
CORNER FILLETS: R.02 [.51]  
MACHINED SURFACES: 200 5.1  
INCH mm  
mm SHOWN IN [BRACKETS]

DRAWN BY H. ADIKE	Regal Beloit America, Inc.
DATE 5/22/2018	
APPROVED BY JD	DESCRIPTION <b>OUTLINE</b> 140 FR. - EXP.PR - (629 NEW DESIGN)
DATE 7/16/2018	MATERIAL
REFERENCE 104607	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER 108734
	SHEET 1 OF 1

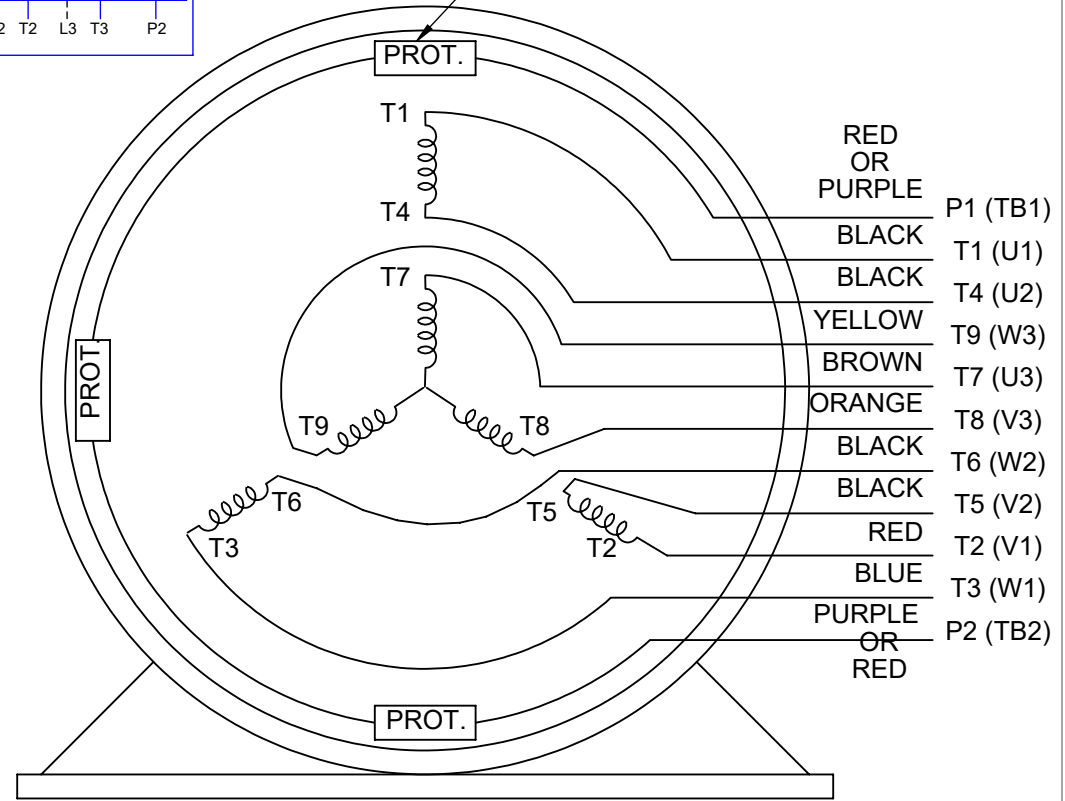
NOTE:  
1.BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.

**HIGH VOLTAGE**



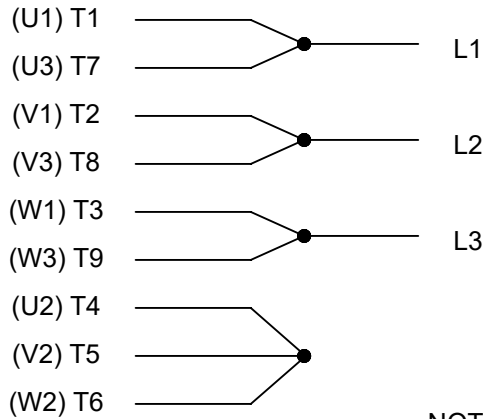
**THREE PHASE  
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS  
CONNECTED IN SERIES



**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**



**VIEW OF TERMINAL END**

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

DRAWING REVISION <b>T</b>	REVISION BY <b>ZR</b>	DATE <b>01-14-2019</b>		DRAWN BY <b>SMC</b>	Regal Beloit America, Inc.
ECO <b>ECO-0159915</b>	APPROVED BY <b>DR</b>	DATE <b>01-15-2019</b>		DATE <b>05-13-1992</b>	
ECO DESCRIPTION <b>ADDED TERMINAL CONNECTION DIAGRAM</b>				APPROVED BY <b>TB</b>	DESCRIPTION <b>CONN DIAGRAM-INTERNAL</b> 3 PHASE - DUAL VOLTAGE MOTOR
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			REFERENCE <b>EE7308/EE7300</b>	THIRD ANGLE PROJECTION	SIZE <b>A</b>



\*\* Subject to change without notice.

Data Sheet

145TTGN6576



Submittal  
Data @ 460 V

Date: 6/29/2017

Customer:  
Attention:  
Submitted by:

FAREEDA DUDEKULA

Motor Load Data

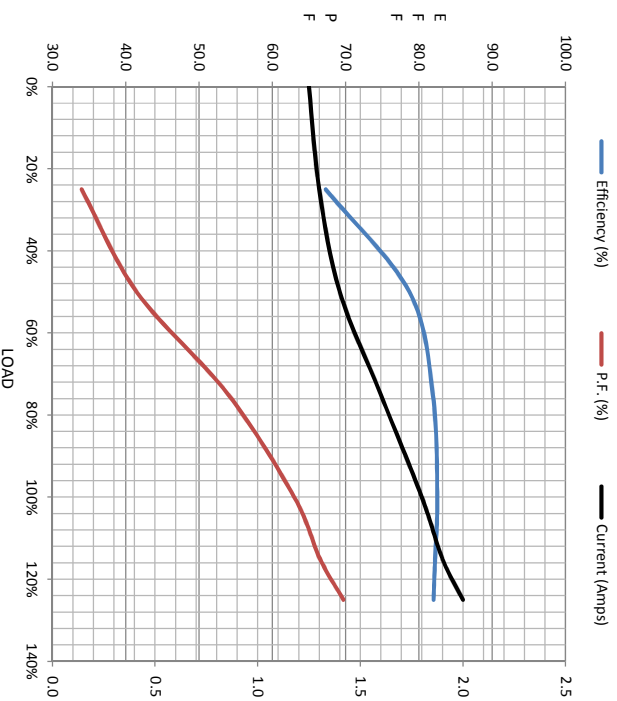
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.25	1.30	1.40	1.60	1.80	1.90	2.00	11.0
Torque (ft-lb)	0.00	1.66	2.20	3.4	4.5	5.2	5.7	11.4
RPM	1200	1190	1180	1170	1155	1145	1140	0
Efficiency (%)		67.3	78.7	81.9	82.5	82.2	82.0	
P.F. (%)	8.0	34.0	41.5	54.0	63.0	66.5	69.7	63.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	105	835	1155	1200
Current (Amps)	11.0	10.7	6.7	1.80	1.25
Torque (ft-lb)	11.4	11.4	16.7	4.5	0.00

Information Block

HP	1.0
Sync. RPM	1200
Frame	145
Enclosure	EPC
Construction	TEN
Voltage	30/460#190/38 V
Frequency	60 HZ
Design	B
LR Code letter	K
Service Factor	1.15
Temp Rise @ FL	35 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wkt	0.14 Lb-Fe
Rel Wdg	ZT6140 NONE
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	A-104607-750
Conn. Diag	A-EE7308T
Additional Specifications:	
0	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.0000	0.0000
X1	X2
0.0000	0.0000
Xm	Xm
0.0000	0.0000



Speed - Torque Curve

