

# PRODUCT INFORMATION PACKET

Model No: 056T17G15601

Catalog No: K2115A

1.50 HP Explosion Proof Motor, 3 phase, 1800 RPM, 230/460 V, 56C Frame, EPFC  
Explosion Proof NEMA Motors



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REGAL

### Nameplate Specifications

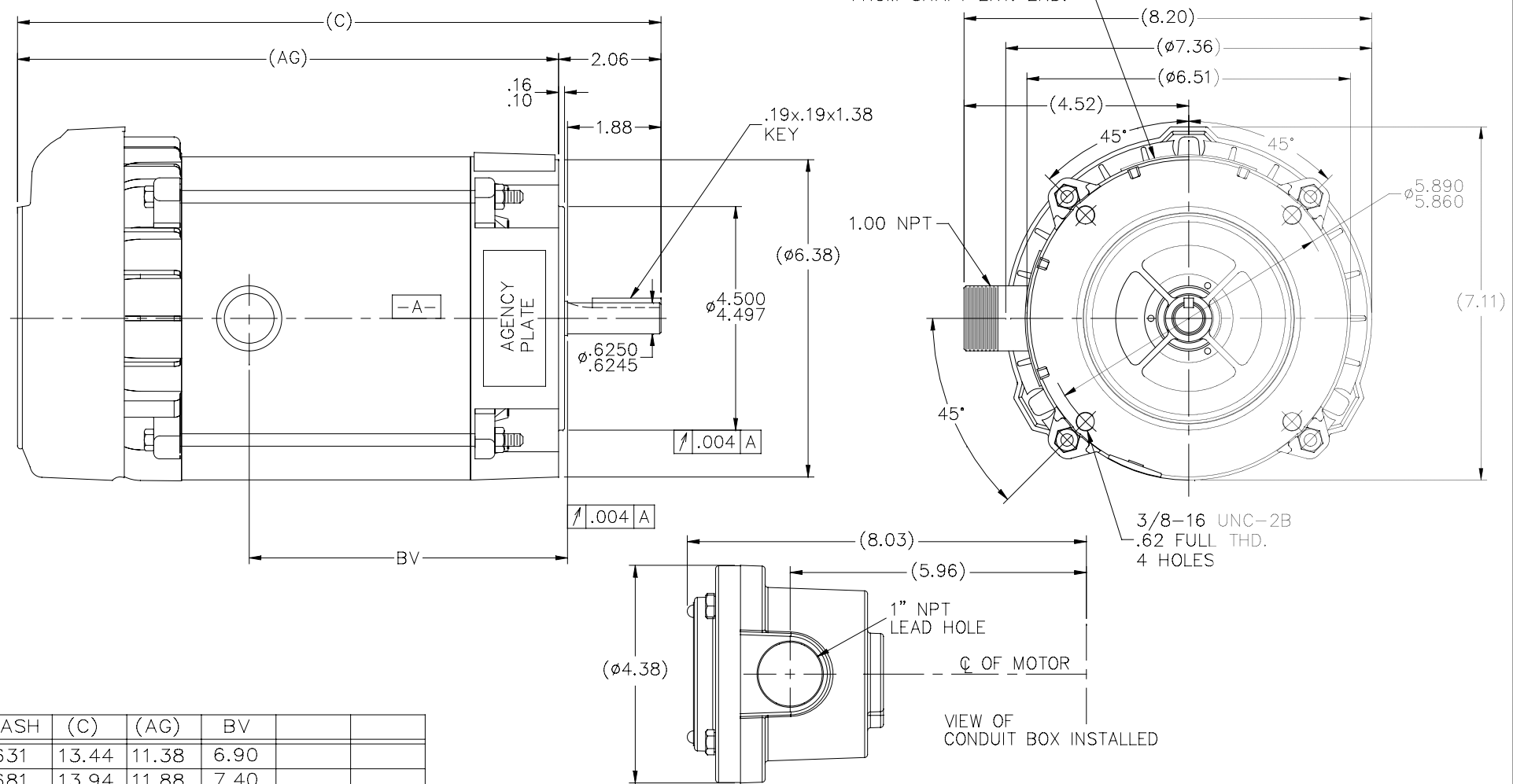
Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.6/2.3 A	Speed	1725 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Power Factor	71
Duty	Continuous	Insulation Class	B
Design Code	NO DESIGN CODE	KVA Code	P
Frame	56C	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	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 C&D CL II GR F&G T3B		

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	7.9 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	15.94 in
Frame Length	8.81 in	Shaft Diameter	0.625 in
Shaft Extension	2.06 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-104188-881	Connection Drawing	EE7335

104188

NAMEPLATES TO BE READ FROM SHAFT EXT. END.



DASH	(C)	(AG)	BV		
631	13.44	11.38	6.90		
681	13.94	11.88	7.40		
731	14.44	12.38	7.90		
781	14.94	12.88	8.40		
831	15.44	13.38	8.90		
881	15.94	13.88	9.40		
931	16.44	14.38	9.90		
981	16.94	14.88	10.40		

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED	FINISH	PREV
6		SL 09/15/15					
5	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD 10/10/13	ST	DEC.	INCHES		
4	REVISED C'BOX PER CN40784A	JJB 02/23/2007	ML	.X	±.1		
3	REDRAWN IN AUTOCAD	TAT 06-28-2004	ML	.XX	±.03		
2	ADDED CONDUIT BOX VIEW CN 26686	MRB 03-22-1999		.XXX	±.005		
1	NEW DRAWING CN 23099	MH 12-02-1996	SM	.XXXX	±.0005		
					±7'30"		

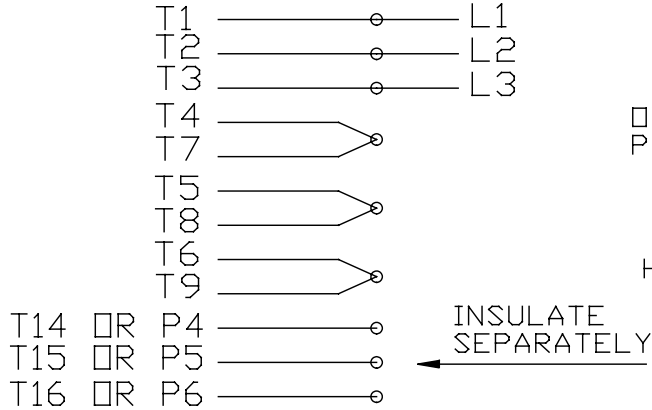
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				DIST WP					

**REGAL** Regal Beloit America, Inc.

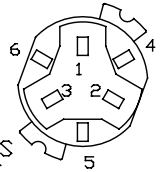
TITLE OUTLINE - 'C' FACE  
56C/145TCZ FR - EXP PR.

EE7335

### HIGH VOLTAGE CONNECTIONS

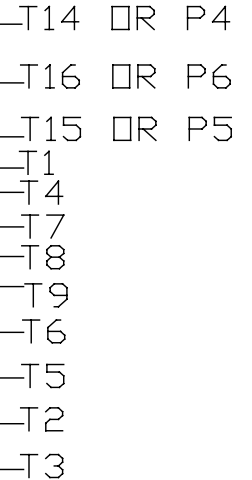
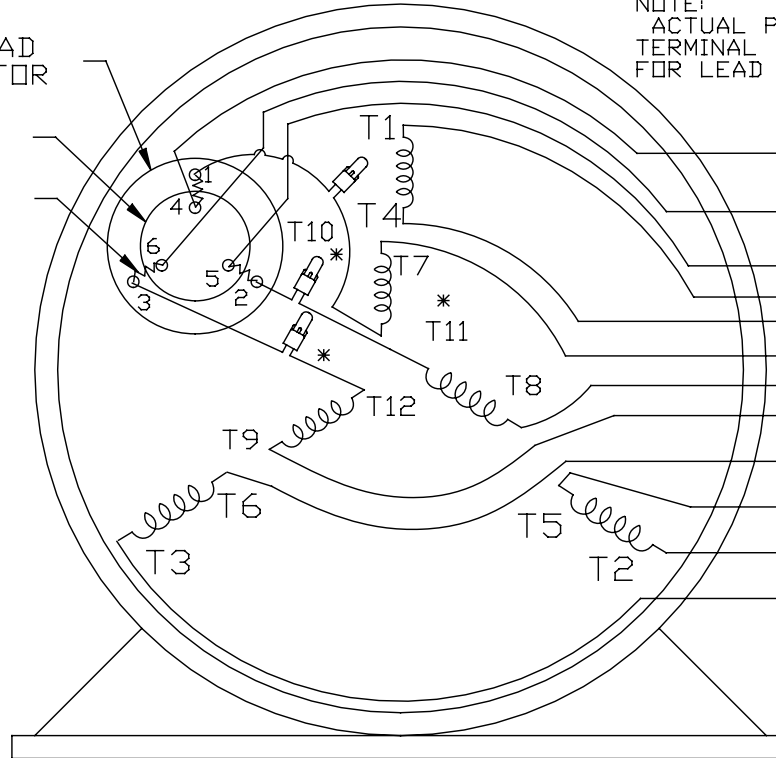


### THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR

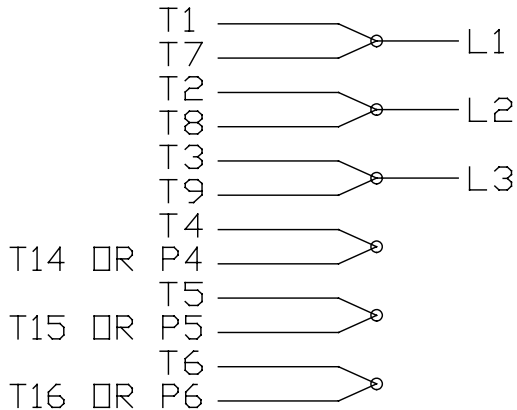


NOTE:  
ACTUAL PROTECTORS  
TERMINAL LOCATIONS  
FOR LEAD CONNECTIONS

OVERLOAD  
PROTECTOR  
DISC  
HEATER



### LOW VOLTAGE CONNECTIONS



VIEW OF TERMINAL END

\* USE PRESSURE CONNECTORS FOR MT2 PLANT ONLY

T2K
T4D
T6AN

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	SCALE	REV.	
				DEC.	INCHES					
17	CHANGED LOGO FROM MARATHON TO REGAL	KIR 02/16/16	AB	DEC.	INCHES	<b>Regal Beloit America, Inc.</b>	KL	08-09-1993	1	
16	PRESSURE CONNECTORS QUANTITY WAS 6	PVR 10/29/13	GR	.X	±.1		CHK	ML	08/10/1993	2
15	PRESSURE CONNECTORS ADDED	GR 03/04/13	SR	.XX	±.01		APPD	GK	08/10/1993	3
14	ADDED ACTUAL PROCECTOR VIEW CN 17481	KL 05/18/94		.XXX	±.005		TITLE			4
13	REDRAWN IN AUTO CAD	KL 08/11/93		.XXXX	±.0005		CONNECTION DIAGRAM			5
						3Ø-DUAL VOLT WITH OVERLOAD PROTECTO				
						MAT'L.				
						REF				
						PREV				
						RFP				
						DIST				
						CAD FILE	EE7335	SIZE	DRAWING NO.	
								A	EE7335	
									17	

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CERTIFICATION DATA SHEET

**Model#:** 56T17G15601 A      **WINDING#:** ZT4256 FR 3  
**CONN. DIAGRAM:** EE7335      **ASSEMBLY:** F1 ONLY  
**OUTLINE:** B-104188-881

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN		
1 1/2	1.12	1800	1725	56C	EPFC	P	NO DESIGN CODE		
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	4.6/2.3	ACROSS THE LINE	CONTINUOUS	B3	1.15	40	3300
FULL LOAD EFF: 86.5	3/4 LOAD EFF: 85.5	1/2 LOAD EFF: 82.5	GTD. EFF		ELEC. TYPE		NO LOAD AMPS		
			84		SQ CAGE IND RUN		3 / 1.5		
F.L. TORQUE	LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C		
4.5 LB-FT	48 / 24		21.2 LB-FT 471		26 LB-FT 578		35		
SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT			
62 dBA	72 dBA	0.14 LB-FT^2	10 LB-FT^2	20 SEC.	2	50 LBS.			

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	EXP PROOF CL I GR C&D CL II GR F&G T3B	PROVISIONS ONLY	NONE	GRAY - GE (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	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
NONE FT-LB NONE V NONE Hz

\*  
N  
O  
T  
E  
S  
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Data Sheet

56T17G15601



Submital Data @ 460 V

Date: 1/22/2019

Customer:   
 Attention:   
 Submitted by: FAREEDA DUDEKULA

Motor Load Data

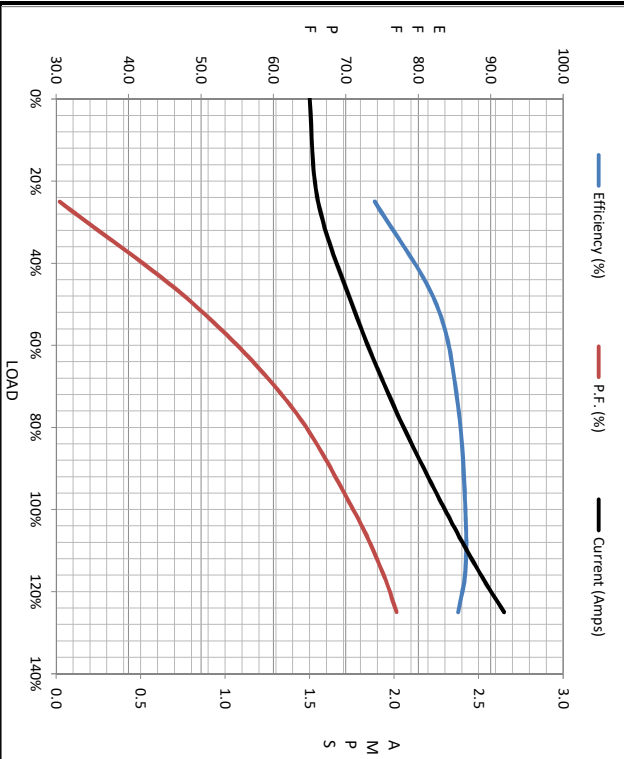
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.50	1.55	1.75	2.00	2.30	2.50	2.65	24.0
Torque (ft-lb)	0.00	1.10	2.20	3.5	4.5	5.2	5.7	21.2
RPM	1800	1790	1780	1765	1755	1,750	1745	0
Efficiency (%)		74.0	82.5	85.5	86.5	86.5	85.5	
P.F. (%)	7.5	30.5	49.0	62.5	71.0	75.0	77.0	69.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	130	1190	1755	1800
Current (Amps)	24.0	23.3	16.0	2.30	1.50
Torque (ft-lb)	21.2	20.2	26.0	4.5	0.00

Information Block

HP	1.5			
Sync. RPM	1800			
Frame	56			
Enclosure	EPFC			
Construction	TSE			
Voltage	230/460 V			
Frequency	60 HZ			
Design	NONE			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	35 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3300 feet			
Motor/Shaft wk <sup>2</sup>	0.14 Lb-Ft <sup>2</sup>			
Ret Wdg	ZT4256 FR			
Sound Pressure @ 1M	62 DBA			
VFD Rating	NONE			
Outline Dwg	B-104188-881			
Conn. Diag	EE7335			
Additional Specifications:				
0				
0				
R1	R2	X1	X2	Xm
4.8380	3.7800	7.1250	7.1630	189.6050



Speed - Torque Curve

