

PRODUCT INFORMATION PACKET



Model No: 056T17F15642

Catalog No: K709A

General Purpose Motor, 1 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 56HC Frame, TEFC



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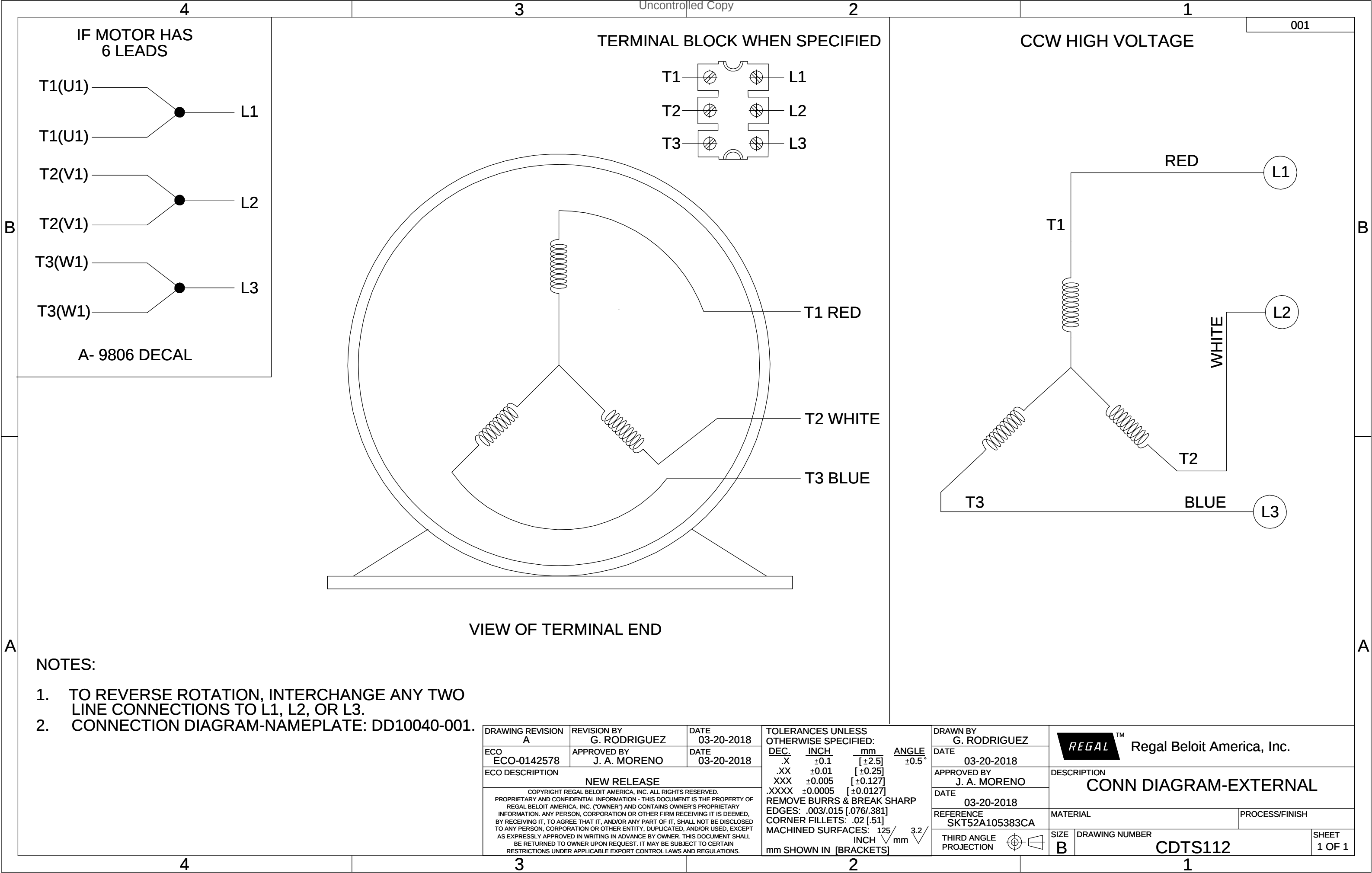
Nameplate Specifications

Phase	3	Output HP	1 Hp
Output KW	0.75 kW	Voltage	575 V
Speed	1725 rpm	Service Factor	1.15
Frame	56HC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	85.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	1.3 A	Power Factor	68
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	P
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	11.8 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal Or Up Or Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	14.15 in
Frame Length	8.65 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	OL56100008-001	Connection Drawing	CDTS112

A



CERTIFICATION DATA SHEET

Model#: 56T17F15642 A
 CONN. DIAGRAM: CDT5112
 OUTLINE: OL56100008-001

WINDING#: ZT4257 FR 4
 ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1	.75	1800	1725	56HC	TEFC	P	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	1.3	ACROSS THE LINE	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 85.5	3/4 LOAD EFF: 84	1/2 LOAD EFF: 81.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 68	3/4 LOAD PF: 59.5	1/2 LOAD PF: 46.5	82.5	SQ CAGE IND RUN	.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	13.6	13.7 LB-FT 457	16.8 LB-FT 560	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.12 LB-FT^2	0 LB-FT^2	15 SEC.	2	48 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	BOLT-ON	HORIZONTAL OR UP OR DOWN	FALSE	NONE	PROVISIONS ONLY	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6205	6203	POLYREX EM	STANDARD 56	NONE	NONE	AISI 1215 (MS1000)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	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: PROVISIONS FOR KIT NONE			
NONE P/N NONE			
NONE NONE			
NONE FT-LB	NONE V	NONE Hz	

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DATE: 06/28/2017 07:09:26 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 1/2/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



56T17F15642

Submittal

Data @ 575 V

Motor Load Data

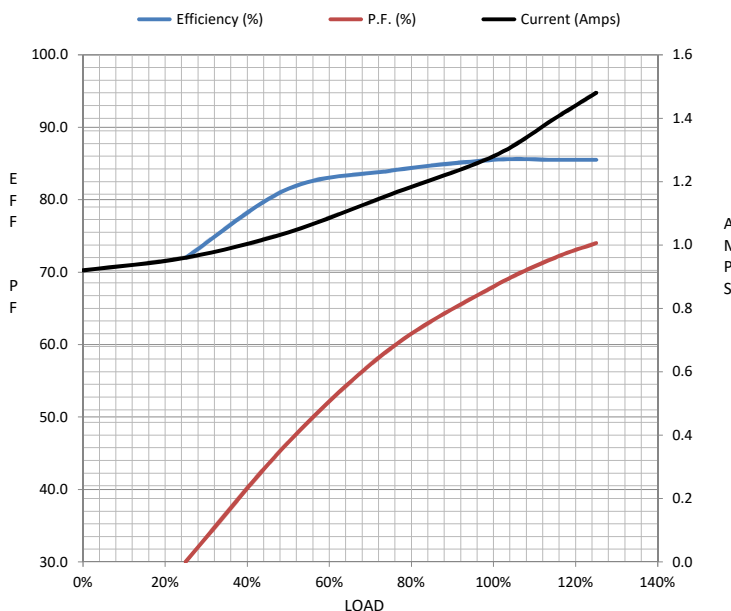
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.92	0.96	1.04	1.16	1.28	1.40	1.48	13.6	
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.5	3.8	13.7	
RPM	1800	1790	1785	1775	1765	1,760	1755	0	
Efficiency (%)		72.0	81.5	84.0	85.5	85.5	85.5		
P.F. (%)	7.5	30.0	46.5	59.5	68.0	72.0	74.0	69.5	

Motor Speed Data

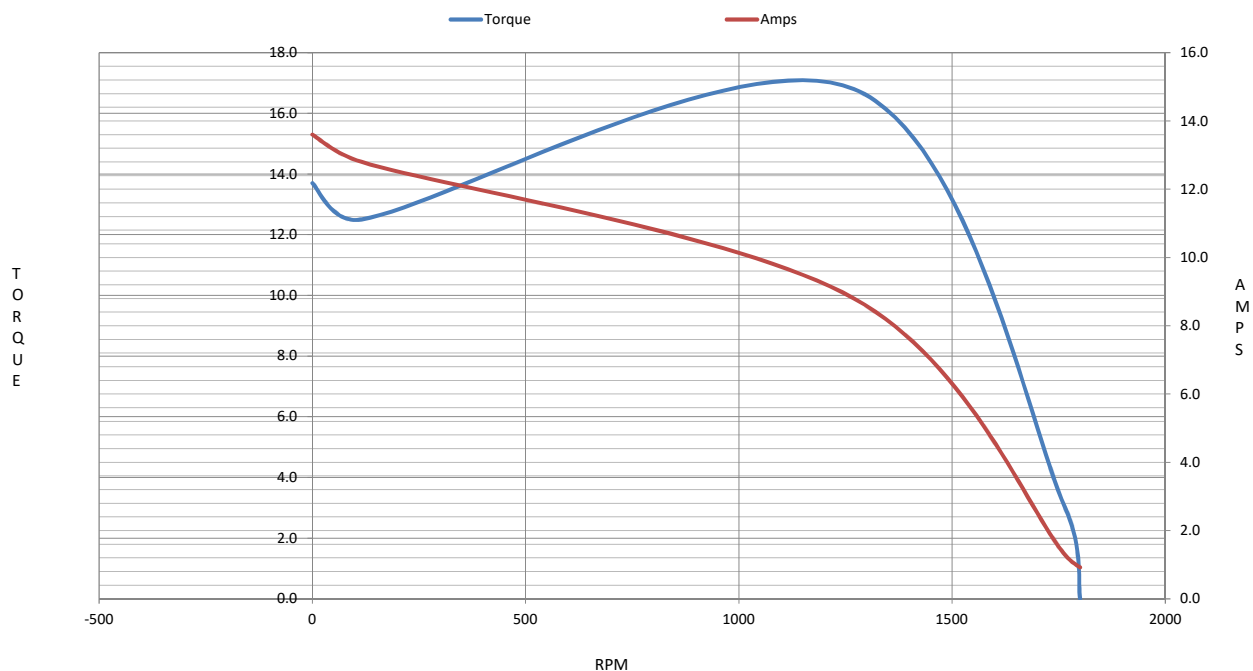
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1270	1765	1800
Current (Amps)	13.6	12.8	8.8	1.28	0.92
Torque (ft-lb)	13.7	12.5	16.8	3.0	0.00

Information Block

HP	1.0			
Sync. RPM	1800			
Frame	56			
Enclosure	TEFC			
Construction	TS			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	30 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3300 feet			
Rotor/Shaft wk²	0.12 Lb-Ft²			
Ref Wdg	ZT4257 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	OL56100008-001			
Conn. Diag	CDTS112			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.7890	2.5040	4.8520	4.3320	118.5360



Speed -Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 056T17F15642

(Model No. may contain prefix and/or suffix characters)

Catalog No : K709A

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22