

PRODUCT INFORMATION PACKET



Model No: LM33615
Catalog No: LM33615
5 HP Special Voltage Motor, 3 phase, 3600 RPM, 575 V, 184TC Frame, TEFC
Special Voltage Motors



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Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	575 V
Current	4.8 A	Speed	3495 rpm
Service Factor	1.25	Phase	3
Efficiency	88.5 %	Power Factor	89.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Frame	184TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

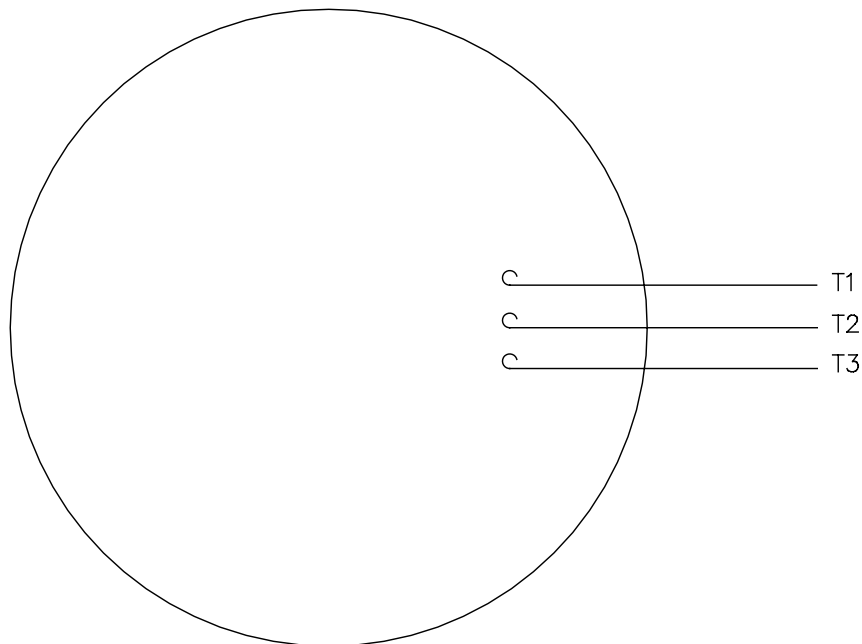
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	2.32 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	14.97 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.91 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	036116LN-950	Connection Drawing	005102.01

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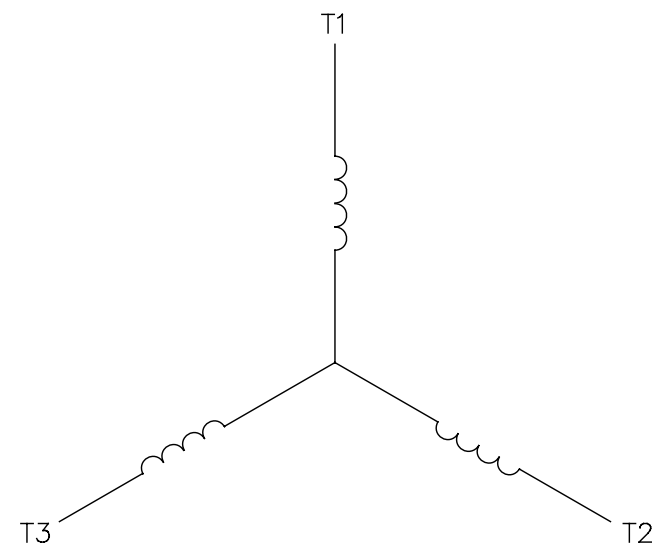


005102-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS

CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ()

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	CHK	APPD	SCALE	REF	FMP	PREV
					DEC.	INCHES								
					.X	±.1								
08	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XX	±.01									
07	UPDATED TO CURRENT STANDARDS	DBT 5/30/97		.XXX	±.005									
06	REDRAWN ON CAD; ADDED DECAL NUMBER	SAW 1/24/95		.XXXX	±.0005									
					±1/2"									
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT								RFP	5/1/02	CAD FILE	00510201	SIZE	DRAWING NO.	REV.
								DIST	BRF-NLV			A	005102-01	08

REGAL™ Regal Beloit America, Inc.



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005102.01

CAT #: LM33615

OUTLINE: 036116LN-950

WINDING: T82103

FL 4

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	3600	3495	184TC	TEFC	TFY	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	4.8	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	88.5	3/4 LD EFF	89.1	1/2 LD EFF	87.9	GTD EFF		ELECT. TYPE	
F.L. PF	89.5	3/4 LD PF	87.5	1/2 LD PF	81.1	0.0		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
7.5 LB-FT	37.6	16.0 LB-FT 213%	26.0 LB-FT 347%	55

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
0 dBA	9 dBA		0.00 LB-FT²	0 LB-FT²	10 SEC.	0	0 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTS AVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
6206 6205						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	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	0	0	0	0	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 9/5/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/5/2018

LM33615



Data @ 575 V

Motor Load Data

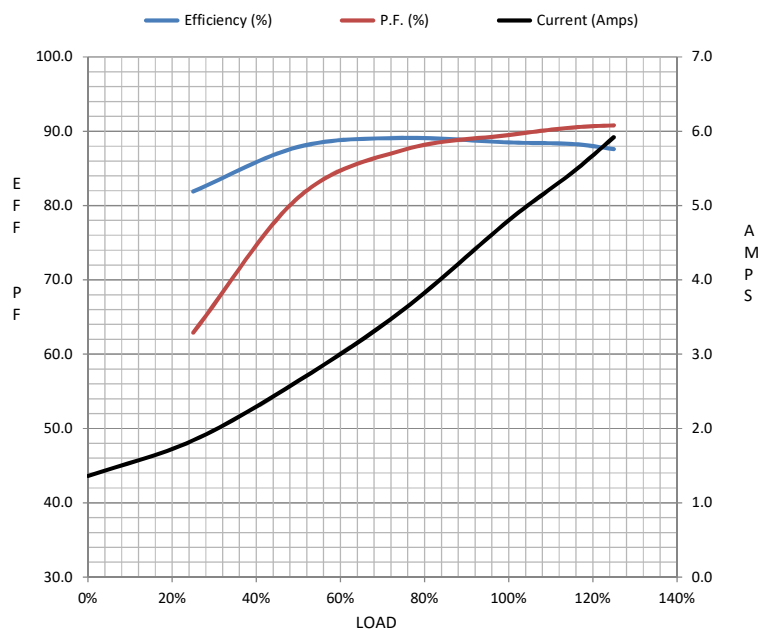
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.36	1.84	2.64	3.6	4.8	5.4	5.9	37.6	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.5	8.7	9.5	16.0	
RPM	3600	3576	3551	3526	3495	3,477	3463	0	
Efficiency (%)		81.9	87.9	89.1	88.5	88.3	87.6		
P.F. (%)	14.8	62.9	81.1	87.5	89.5	90.5	90.8	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2850	3495	3600
Current (Amps)	37.6	33.6	24.0	4.8	1.36
Torque (ft-lb)	16.0	14.0	26.0	7.5	0.00

Information Block

HP	5.0			
Sync. RPM	3600			
Frame	180			
Enclosure	TEFC			
Construction	TFY			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	55 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	T82103 FL			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	036116LN-950			
Conn. Diag	005102.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

