

PRODUCT INFORMATION PACKET



Model No: 140521.00

Catalog No: 140521.00

General Purpose Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, TEFC



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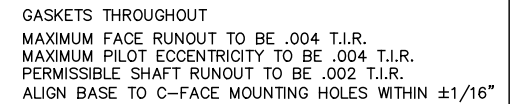
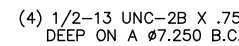



Nameplate Specifications

Phase	3	Output HP	7.50 Hp
Output KW	5.6 kW	Voltage	230/460 V
Speed	1765 rpm	Service Factor	1.25
Frame	213TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Efficiency	91.7 %
Ambient Temperature	40 °C	Frequency	60/50 Hz
Current	22.4-21.6/10.8 A	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

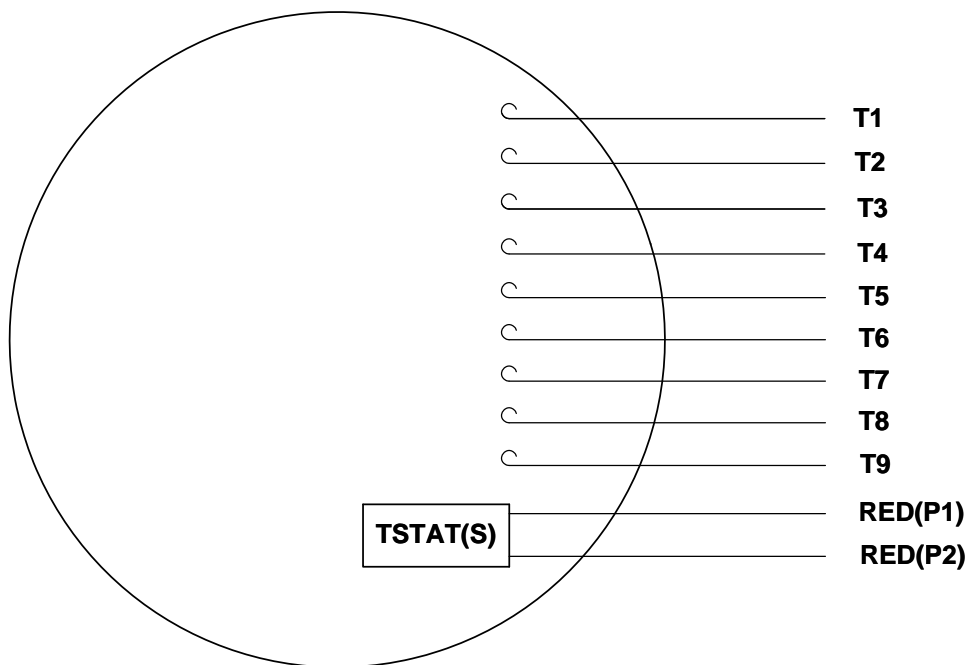
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.88 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	18.71 in
Frame Length	12.00 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	005010.20	Outline Drawing	037624-1200

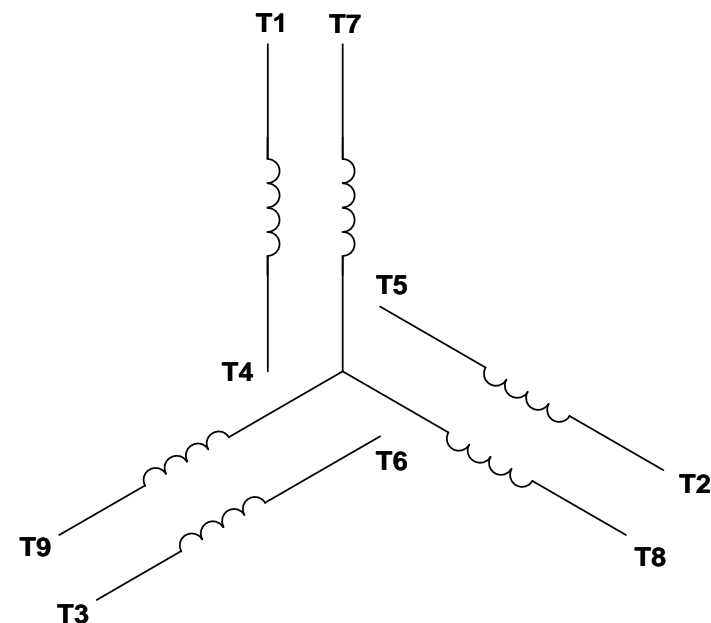


									TOLERANCES UNLESS SPECIFIED			 Regal Beloit America, Inc.			DRAWN RDW 6/11/05									
									DEC. INCHES						CHK									
DASH NO.	"C"	"AD"	02	ADDED NOTE "WHEN REQUIRED" IN WATT SAVER DECAL			MVG 03/31/17	ST	.X	±.1			APPD KJH 6/13/05											
1150	18.21	5.25	01	ADDED: WARNING DECAL – LIFTING LUG & WARNING DECAL –			KVN 4/13/2010		.XX	±.03			TITLE OUTLINE – 210TC FRAME			SCALE 3=8								
1200	18.71	5.75		WITH/OUT PROTECTOR; REMOVED: DECAL – WIRING INSTRUCTION,					.XXX	±.005			TEFC – RIGID "C"			REF								
1250	19.21	6.25		NAMEPLATE –was– TV SCREEN STYLE(004142.01)					.XXXX	±.0005			MAT'L			FMF 140522								
1300	19.71	6.75	NO.	REVISION			BY & DATE	CHK	ANG	±1/2"			FINISH			PREV								
1350	20.21	7.25	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																					
1400	20.71	7.75	THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT																					
															RST 6/13/05		CAD FILE 037624		SIZE B		DRAWING NO. 037624		REV. 02	
															DFF NLV									

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

DRAWING REVISION G	REVISION BY MVG	DATE 04/05/2017
ECO ECO-0121253	APPROVED BY SM	DATE 04/05/2017
ECO DESCRIPTION ADDED P1 & P2 FOR TSTAT		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.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: 125/3.2			
INCH/mm			
mm SHOWN IN [BRACKETS]			

DRAWN BY DBT 12/16/97	DATE
APPROVED BY KH 12/17/97	DATE
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE WITH PROTECTOR	
MATERIAL DECAL - 004014 (TSTAT) - 080582	PROCESS/FINISH STOCK
SIZE A	DRAWING NUMBER 00501020
SHEET 1 OF 1	



CERTIFICATION DATA SHEET

**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CUSTOMER:

ORDER #:

CATALOG #: 140521.00

CONN. DIAGRAM: 005010.20

OUTLINE: 037624-1200

MOUNTING: F1/F2 CAPABLE

WINDING #: T9495 FR 3 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&7 1/2	5.60&5.60	1800	1765&1460	213TC	TEFC	J	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	22.4-21.6/10.8&24.8/12.4	ACROSS THE LINE	CONTINUOUS	F4	1.25/1.25	40

FULL LOAD EFF:	91.7&89.5	3/4 LOAD EFF:	90.4	1/2 LOAD EFF:	88.4	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	72&62	3/4 LOAD PF:	64.8	1/2 LOAD PF:	52.5	90.2		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.3 LB-FT	146 / 73	50 LB-FT 225 %	64.2 LB-FT 289 %	43

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	0.97 LB-FT^2	1 LB-FT^2	15 SEC.	2	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GREEN - LEESON WATTSaver

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6207	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

*

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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

Data Sheet

Date: 1/24/2018

140521.00



Data @ 460 V

Motor Load Data

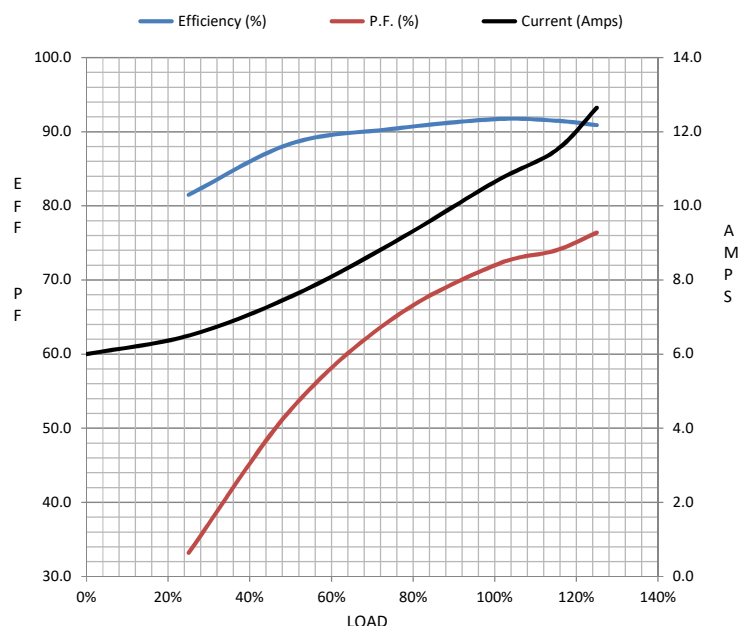
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.0	6.5	7.6	9.0	10.7	11.5	12.7	73.0	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	24.5	27.9	50.0	
RPM	1800	1794	1787	1780	1770	1768	1765	0	
Efficiency (%)		81.5	88.4	90.4	91.7	91.5	90.9		
P.F. (%)	6.2	33.2	52.5	64.8	72.0	74.0	76.4	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1770	1800
Current (Amps)	73.0	65.0	48.0	10.7	6.0
Torque (ft-lb)	50.0	43.0	64.2	22.3	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	210			
Enclosure	TEFC			
Construction	TFW			
Voltage	230/460#190/380		V	
Frequency	60		Hz	
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	43		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	0.97		Lb-Ft²	
Ref Wdg	T9495 FR			
Sound Pressure @ 1M	60		dBA	
VFD Rating	NONE			
Outline Dwg	037624-1200			
Conn. Diag	005010.20			
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

