

PRODUCT INFORMATION PACKET

Model No: 215TTTL7050

Catalog No: C408

Brake Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 215TC Frame,
TENV



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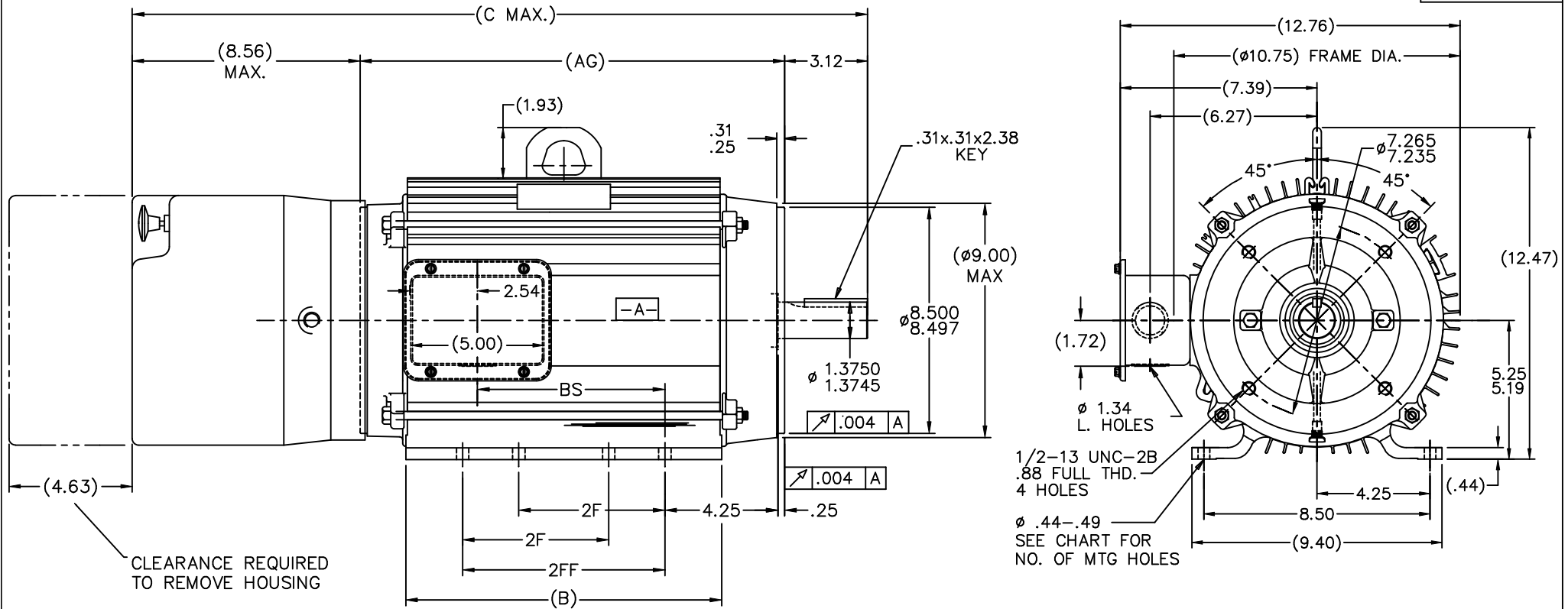
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Nameplate Specifications

Phase	3	Output HP	10 & 7.5 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	1755 & 1465 rpm	Service Factor	1.0 & 1.0
Frame	215TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Efficiency	91.7 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	25/12.5 & 23/11.5 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6307
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	.79 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	28.64 in
Frame Length	12.75 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS330106-1275	Connection Drawing	A-EE7308



CLEARANCE REQUIRED TO REMOVE HOUSING

- NOTES:
 1. BOX CAN BE ROTATED IN 180° STEPS.
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 3. SEE CHART FOR F2 CAPABILITY. IF YES, BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°

DASH	FR.	B	C	2F	2FF	AG	BS	F2 CAPABLE	NO. OF MTG HOLES
875	213	8.87	24.64	5.50	—	12.96	4.05	YES	8
950	213	9.62	25.39	5.50	—	13.71	4.80	NO	4
1025	213	10.37	26.14	5.50	—	14.46	5.55	NO	4
1025	215	10.37	26.14	7.00	—	14.46	5.55	YES	8
1115	213/215	11.27	27.04	5.50	/7.00	15.36	6.45	YES	8
1175	213	11.87	27.64	5.50	—	15.96	7.05	YES	8
1175	215	11.87	27.64	7.00	—	15.96	7.05	NO	4
1275	213	12.87	28.64	5.50	—	16.96	8.05	YES	8
1275	215	12.87	28.64	7.00	—	16.96	8.05	YES	8

TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT CORPORATION		DRAWING NO. PAGE 1 OF 1 REV.	
DEC.	INCHES	CHK	ANG	FINISH	PREV
.X	±.1		±1/2°		
.XX	±.03				
.XXX	±.005				
.XXXX	±.0005				
1 ADDED "2FF" COLUMN CN40215		JJB	06/01/2006	CAD FILE ss330106	B
NO.	REVISION	BY & DATE	CHK	ANG	FINISH
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					
TITLE OUTLINE				210 TC FR. - STEARNS 87,000 SERIES BRK	
MATL				REF	
SIZE				DRAWING NO. SS330106	



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		TITLE CONNECTION DIAGRAM	SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±7'30"			PREV				
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							DIST WP					



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: A-EE7308
OUTLINE: B-SS330106-1275
WINDING #: K2154339 1

CUSTOMER PO#:
MODEL #: 215TTTL7050 ES
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	1800	1755&1465	215TC	TENV	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	25/12.5&23/11.5	ACROSS THE LINE	CONTINUOUS	F3	1.0/1.0	40

FULL LOAD EFF:	91.7&91.7	3/4 LOAD EFF:	92.4	1/2 LOAD EFF:	92.4	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	82&81	3/4 LOAD PF:	78	1/2 LOAD PF:	69	90.2		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.9 LB-FT	156 / 78	65 LB-FT 217 %	82 LB-FT 274 %	90

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.2 LB-FT^2	55 LB-FT^2	25 SEC.	2	190 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (ENAMEL)

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
6309	6307						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

* STEARNS 50 LB/FT 87,000 SERIES BRAKE
1-087-051-00 WITH MANUAL RELEASE
BRAKE LEADS PULLED OUT OF MOTOR C/B

N
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S
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: REGAL SUPPLIED AND MOUNT NONE STEARNS P/N 66378-53 87,000 NEMA 2 50 FT-LB 208-230/460-190/380 V 60/50 Hz

PREPARED BY: Dinesh
Suddula **DATE:**
02/14/2019 03:13:24 AM
FORM 3531 REV.3 02/07/99
** Subject to change without
notice.

Data Sheet

Date: 1/4/2019
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



215TTL7050

Submittal

Data @ 460 V

Motor Load Data

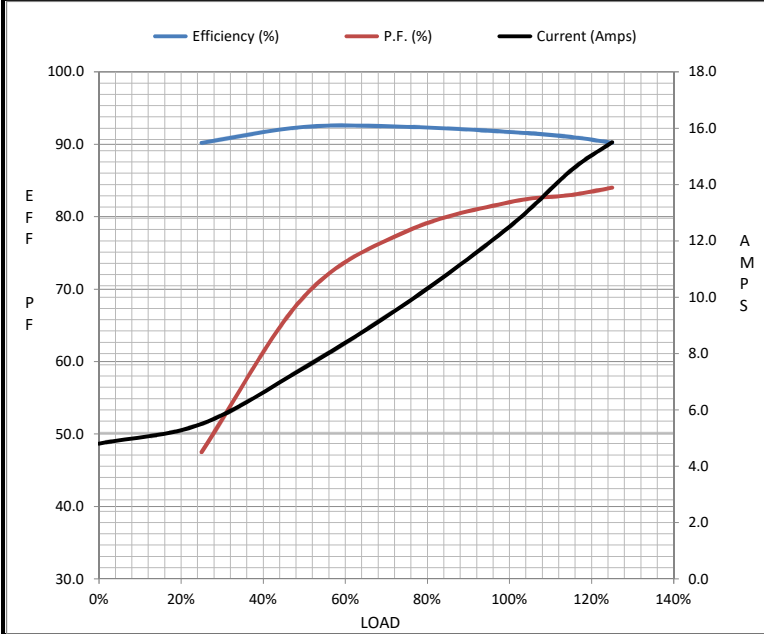
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.8	5.5	7.5	9.8	12.5	14.5	15.5	78.0	
Torque (ft-lb)	0.00	7.4	14.8	22.2	29.9	34.5	37.5	65.0	
RPM	1800	1790	1780	1770	1755	1,750	1745	0	
Efficiency (%)		90.2	92.4	92.4	91.7	91.0	90.2		
P.F. (%)	4.5	47.5	69.0	78.0	82.0	83.0	84.0	43.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1550	1755	1800
Current (Amps)	78.0	75.0	50.0	12.5	4.8
Torque (ft-lb)	65.0	60.0	82.0	29.9	0.00

Information Block

HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.0			
Temp Rise @ FL	90 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.20 Lb-Ft ²			
Ref Wdg	K2154339 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS330106-1275			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.5540	0.4660	1.9430	2.7090	49.7000



Speed - Torque Curve

