

PRODUCT INFORMATION PACKET

Model No: 215THFW7736

Catalog No: Y997

Speed Ratio Motors, TEFC, 10 HP, 3 Ph, 60 Hz, 575 V, 1770 RPM, 215TC Frame



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Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	575 V
Current	11.1 A	Speed	1770 rpm
Service Factor	1	Phase	3
Efficiency	91 %	Power Factor	74
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	K
Frame	215TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	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 Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.72 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	22.22 in
Frame Length	12.40 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F3
Outline Drawing	SS88855-1240	Connection Drawing	A-EE7300

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**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**

- L1 _____ WHITE
- L2 _____ RED
- L3 _____ BLACK

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300
SHEET 1 OF 1	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
 ORDER #: _____ REFERENCE MODEL #: 215THFW7736
 CONN. DIAGRAM: A-EE7300 CAT #: Y997
 OUTLINE: A-SS88855-1240 CUSTOMER PART #: _____
 WINDING: K2154416 NONE 2 MOUNTING: F3
 SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1800	1770	215TC	TEFC	TFW	K	INC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	11.1	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.0	1/2 LD EFF	89.5	GTD EFF	89.5	ELECT. TYPE	SQ CAGE INV DUTY
F.L. PF	74.0	3/4 LD PF	66.5	1/2 LD PF	54.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
29.7 LB-FT	83.2	87.0 LB-FT 293%	110 LB-FT 370%	52

@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	1.00 LB-FT ²	0 LB-FT ²	0 SEC.	0	135 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	BOLT-ON	HORIZONTAL	NO	NONE	NO	NONE	BLACK (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	VERIFY	T	NONE	NONE	VERIFY	ROLLED STEEL
BALL	BALL						
309	206						

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
0.71	0.555	2.618	3.887	52.141	0.150	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED					
	ENCODER: NONE NONE NONE					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE HZ:					
	UL: V-INS, CONST UL REC					

PREPARED BY: FAREEDA DUDEKULA
 DATE: 11/2/2018

Data Sheet

Date: 11/2/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



215THFW7736

Submittal

Data @ 575 V

Motor Load Data

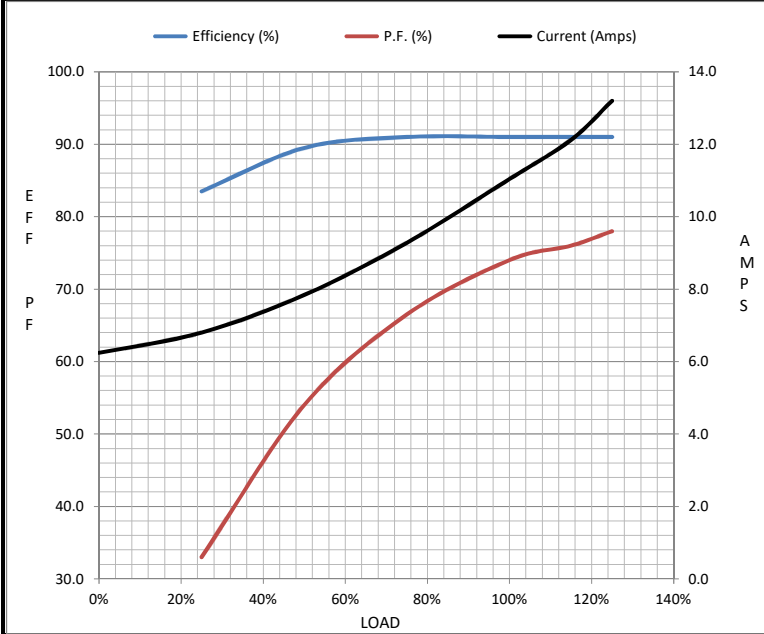
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	6.2	6.8	7.8	9.3	11.0	12.1	13.2	83.2
Torque (ft-lb)	0.00	7.4	14.8	22.2	29.7	33.6	37.5	87.0
RPM	1800	1792	1785	1780	1770	1,766	1760	0
Efficiency (%)		83.5	89.5	91.0	91.0	91.0	91.0	
P.F. (%)	5.5	33.0	54.0	66.5	74.0	76.0	78.0	44.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1770	1800
Current (Amps)	83.2	80.0	45.6	11.0	6.2
Torque (ft-lb)	87.0	105	110	29.7	0.00

Information Block

HP	10.0			
Sync. RPM	1800			
Frame	215182TFC6080			
Enclosure	TEFC			
Construction	TFW			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	K			
Service Factor	1.0			
Temp Rise @ FL	52 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.00 Lb-Ft ²			
Ref Wdg	K2154416 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	A-SS88855-1240			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7100	0.5550	2.6180	3.8870	52.1410



Speed - Torque Curve

