

PRODUCT INFORMATION PACKET

Model No: 213THES8053

Catalog No: Y981

Blue Max® Hazardous Duty® Explosion Proof Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM,
213TC Frame, EPNV



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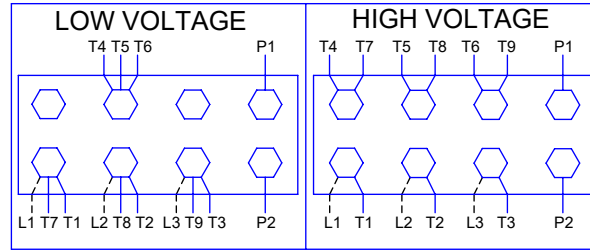
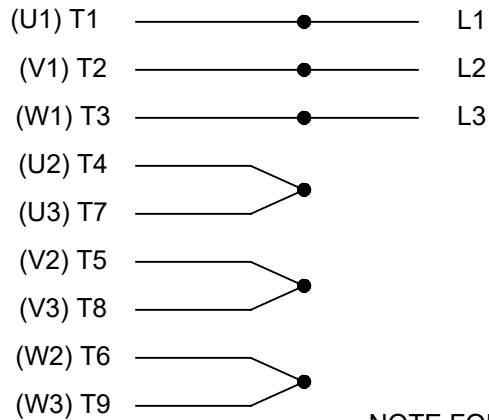
Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	13.0/6.5 A	Speed	1765 rpm
Service Factor	1	Phase	3
Efficiency	90.2 %	Power Factor	79.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	K
Frame	213TC	Enclosure	Explosion Proof Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6309
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	DIV 1 EXP PROOF CL I GR D CL II GR FG T3C	Number of Speeds	1

Technical Specifications

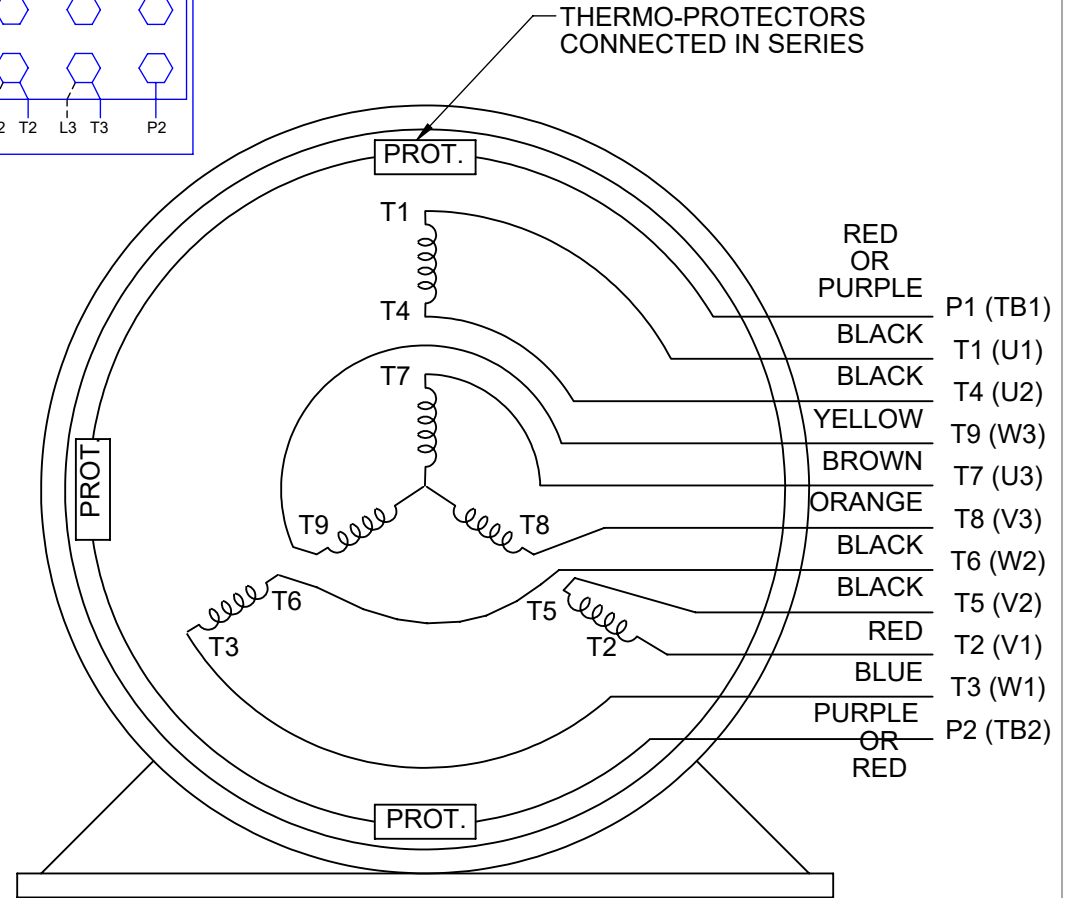
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	1.82 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	26.17 in
Frame Length	8.75 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS88076-875	Connection Drawing	A-EE7308T

HIGH VOLTAGE



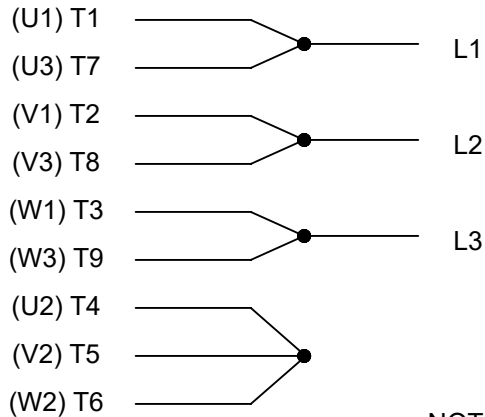
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992	
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T

NONE	P/N	NONE	
NONE	NONE		
NONE FT-LB		NONE V	NONE Hz

DATE: 06/21/2017 09:42:34 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



213THES8053

Submittal

Data @ 460 V

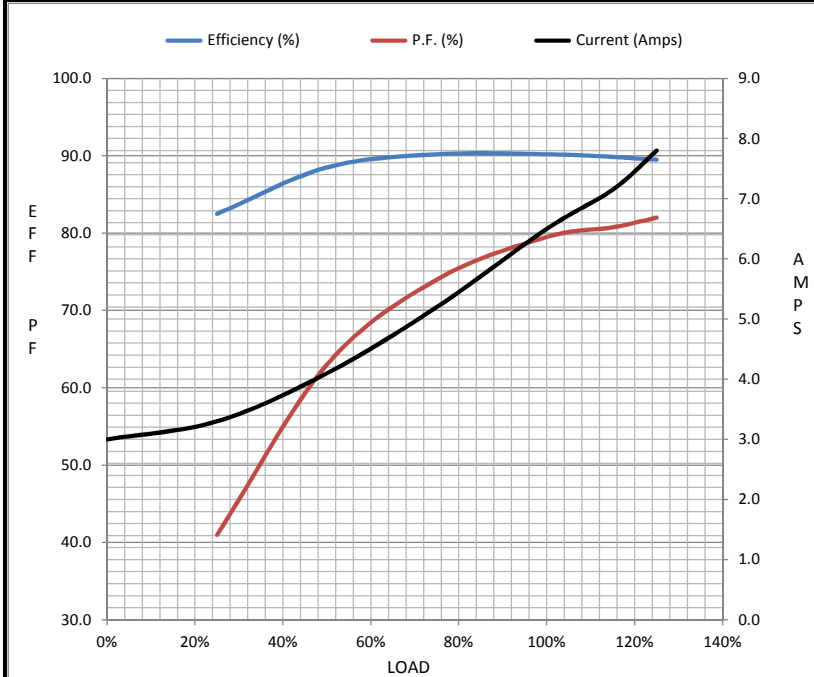
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.0	3.3	4.1	5.2	6.5	7.2	7.8	47.0
Torque (ft-lb)	0.00	3.7	7.4	11.0	14.9	16.8	18.6	37.0
RPM	1800	1795	1785	1775	1765	1,761	1755	0
Efficiency (%)		82.5	88.5	90.2	90.2	89.9	89.5	
P.F. (%)	7.0	41.0	63.0	74.0	79.5	80.8	82.0	41.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1550	1765	1800
Current (Amps)	47.0	44.0	26.0	6.5	3.0
Torque (ft-lb)	37.0	32.0	42.0	14.9	0.00

Information Block				
HP	5.0			
Sync. RPM	1800			
Frame	213			
Enclosure	TENV			
Construction	TTN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.80 Lb-Ft ²			
Ref Wdg	K2134251 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS88076-875			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.2470	0.9070	3.7140	5.2960	84.5960



Speed - Torque Curve

