

PRODUCT INFORMATION PACKET

Model No: 5K49TN6383

Catalog No: K2110

Hazardous Duty® Explosion Proof Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 56H Frame, EPFC



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Nameplate Specifications

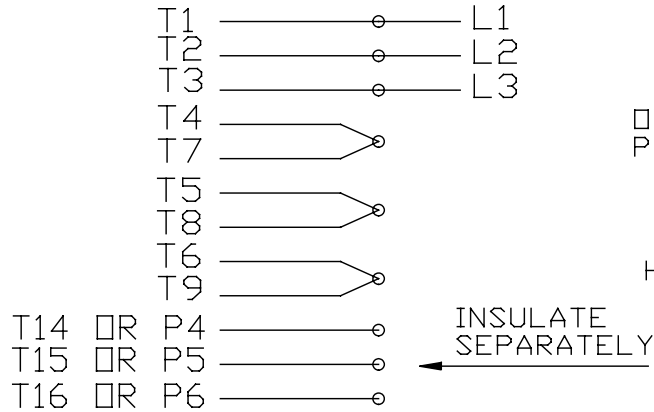
Phase	3	Output HP	1 Hp
Output KW	0.75 kW	Voltage	230/460 V
Speed	1150 rpm	Service Factor	1.0
Frame	56H	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	Efficiency	80 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	3.4/1.7 A	Power Factor	66
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	J
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	N
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B

Technical Specifications

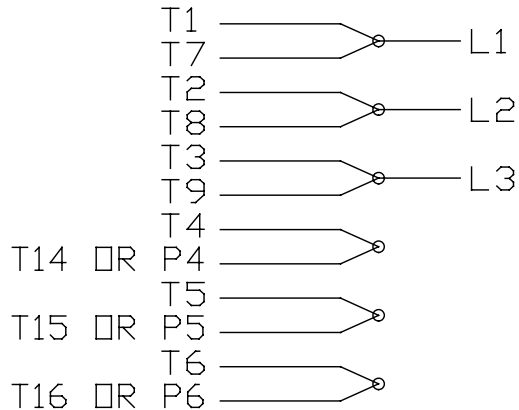
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	20.2 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	15.08 in
Frame Length	8.31 in	Shaft Diameter	0.625 in
Shaft Extension	1.94 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7335-GE	Outline Drawing	B-105907GE-831

EE7335

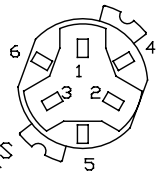
HIGH VOLTAGE CONNECTIONS



LOW VOLTAGE CONNECTIONS

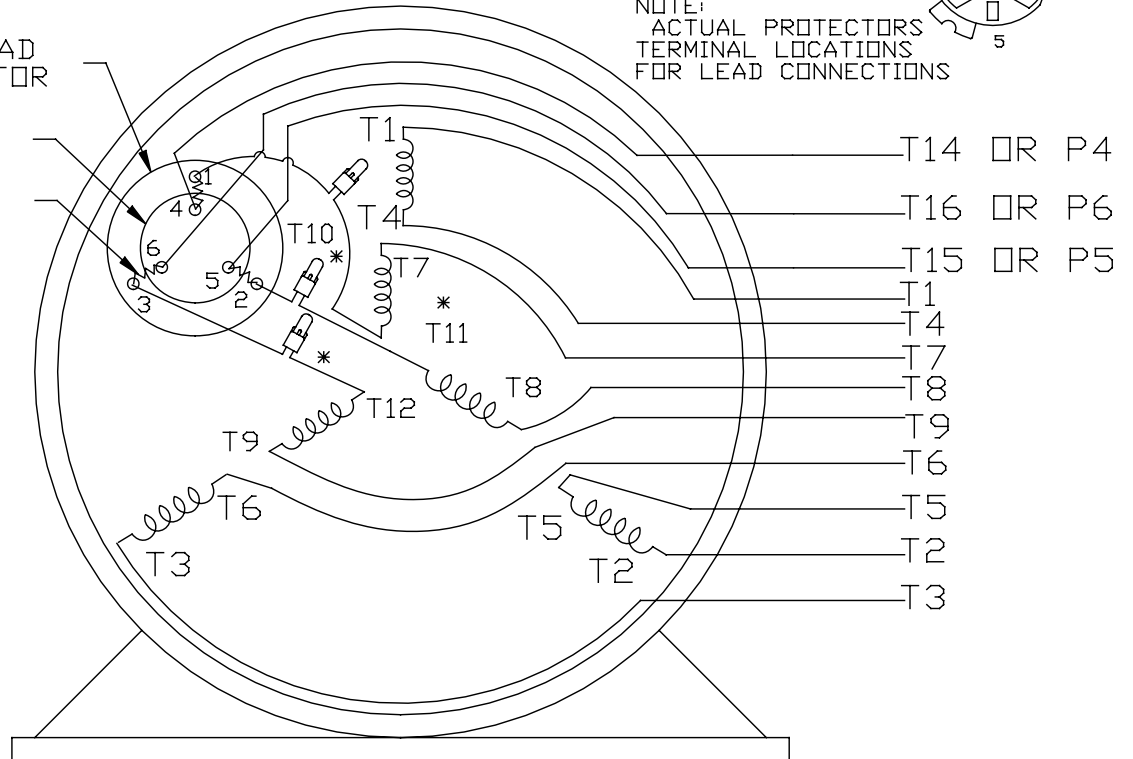


THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR



NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD CONNECTIONS

OVERLOAD
PROTECTOR
DISC
HEATER



VIEW OF TERMINAL END

* USE PRESSURE CONNECTORS FOR MT2 PLANT ONLY

T2K
T4D
T6AN

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	SCALE	REV.
				DEC.	INCHES				
17	CHANGED LOGO FROM MARATHON TO REGAL	KIR 02/16/16	AB	DEC.	INCHES	REGAL™ Regal Beloit America, Inc.	KL 08-09-1993	1=1	17
16	PRESSURE CONNECTORS QUANTITY WAS 6	PVR 10/29/13	GR	.X	±.1		CHK ML 08/10/1993		
15	PRESSURE CONNECTORS ADDED	GR 03/04/13	SR	.XX	±.01	TITLE CONNECTION DIAGRAM	APPD GK 08/10/1993		
14	ADDED ACTUAL PROECTOR VIEW CN 17481	KL 05/18/94		.XXX	±.005	3Ø-DUAL VOLT WITH OVERLOAD PROTECTO	SCALE		
13	REDRAWN IN AUTO CAD	KL 08/11/93		.XXXX	±.0005	MAT'L.	REF		
				ANG	±1/2*		FMF		
				RFP		CAD FILE EE7335	SIZE A	DRAWING NO. EE7335	
				DIST					

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Data Sheet

Date: 12/14/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



5K49TN6383

Submittal

Data @ 460 V

Motor Load Data

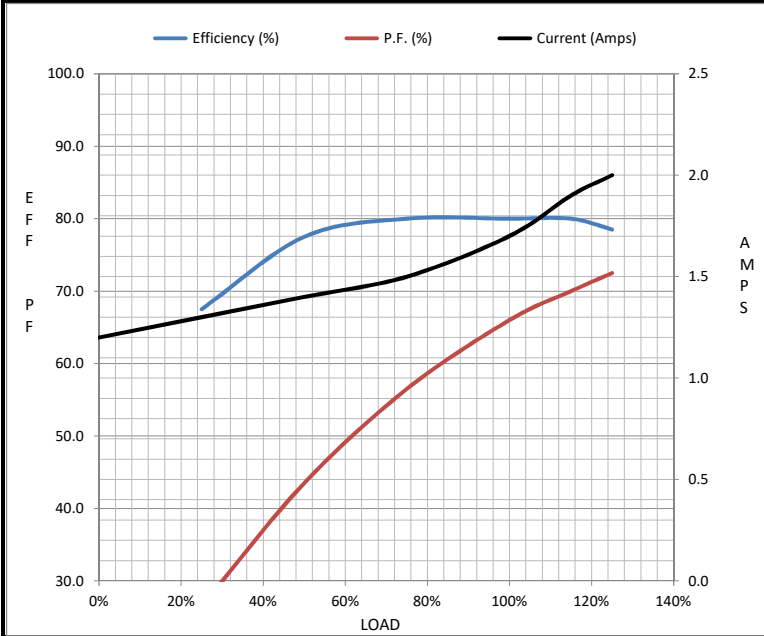
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.20	1.30	1.40	1.50	1.70	1.90	2.00	9.8
Torque (ft-lb)	0.00	1.10	2.20	3.4	4.6	5.3	5.8	10.5
RPM	1200	1185	1175	1165	1150	1,140	1130	0
Efficiency (%)		67.5	77.5	80.0	80.0	80.0	78.5	
P.F. (%)	8.5	26.5	43.5	56.5	66.0	70.0	72.5	64.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	850	1150	1200
Current (Amps)	9.8	8.5	6.7	1.70	1.20
Torque (ft-lb)	10.5	9.5	15.0	4.6	0.00

Information Block

HP	1.0			
Sync. RPM	1200			
Frame	56			
Enclosure	EPFC			
Construction	TSE			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.10 Lb-Ft ²			
Ref Wdg	ZT691 R1			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-105907GE-831			
Conn. Diag	A-EE7335-GE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
10.0250	7.6400	16.7560	17.8070	232.3120



Speed - Torque Curve

