

PRODUCT INFORMATION PACKET



Model No: 5K49MN6382

Catalog No: K2116

Explosion Proof Motor, 0.75 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 56 Frame, EPFC

Operational at 208-230/460 V @60HZ



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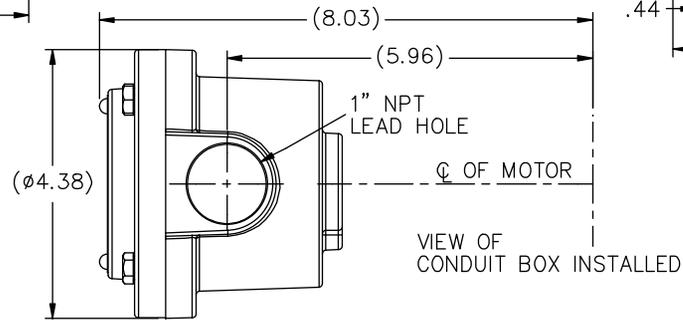
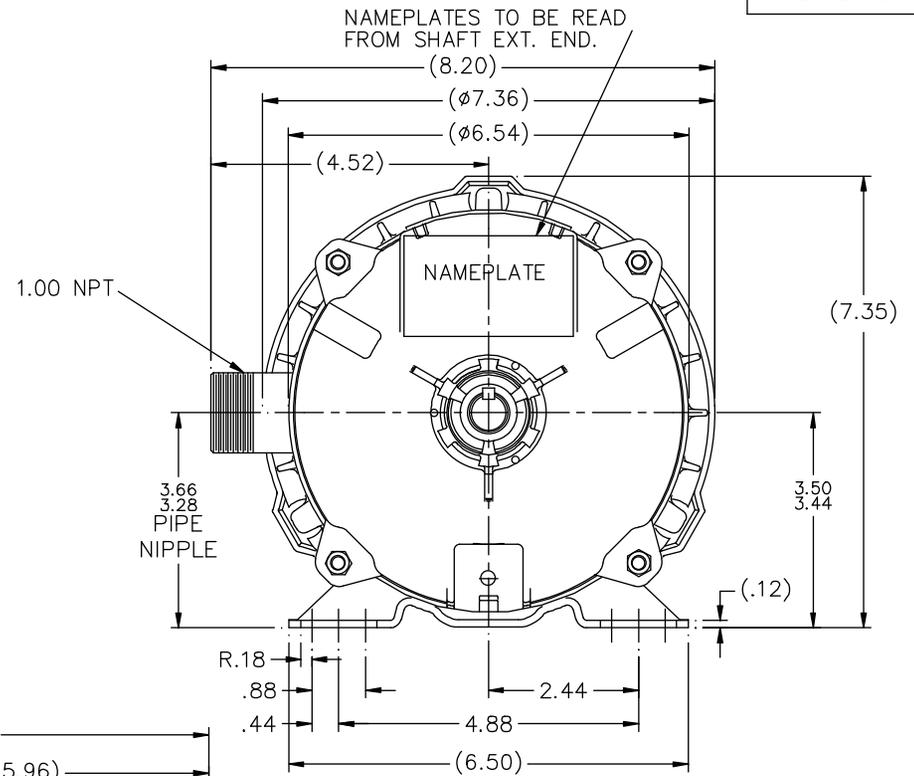
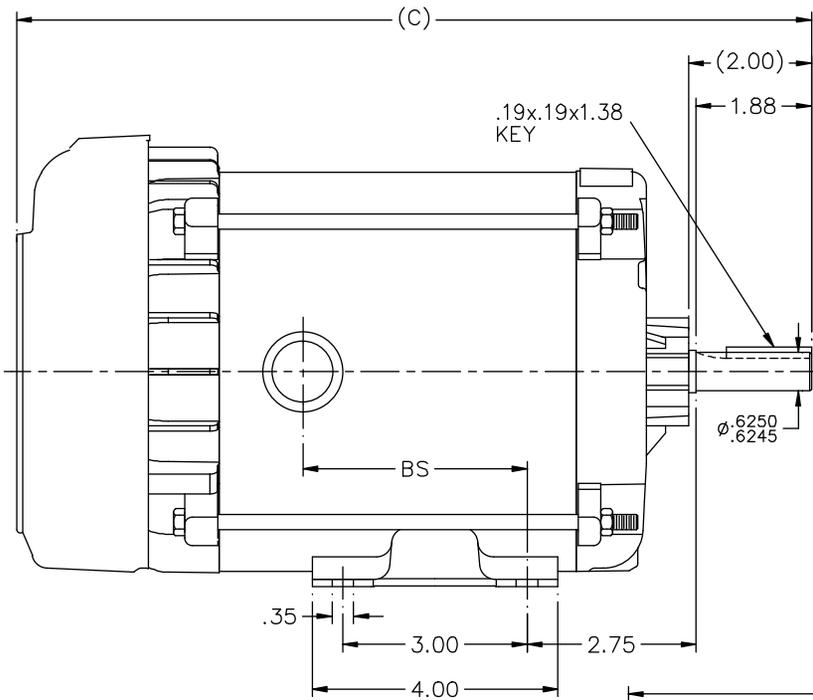


Nameplate Specifications

Phase	3	Output HP	0.75 Hp
Output KW	0.56 kW	Voltage	230/460 V
Speed	1145 rpm	Service Factor	1.0
Frame	56	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	Efficiency	74 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	3.2/1.6 A	Power Factor	59.1
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	K
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
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	6.3 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	13.94 in
Frame Length	6.81 in	Shaft Diameter	0.625 in
Shaft Extension	2 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-104189GE-681	Connection Drawing	A-EE7335-GE

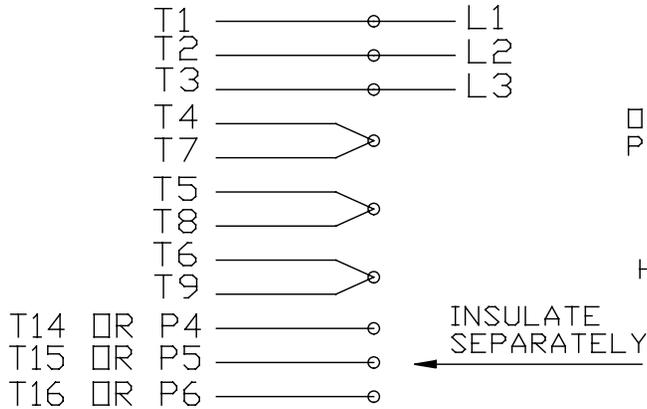


DASH	(C)	BS			
631	13.44	4.15			
681	13.94	4.65			
731	14.44	5.15			
781	14.94	5.65			
831	15.44	6.15			
881	15.94	6.65			
931	16.44	7.15			
981	16.94	7.65			

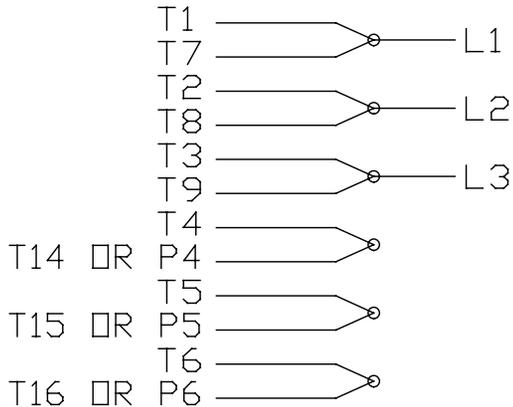
				TOLERANCES UNLESS SPECIFIED				DRAWING LIST 11-30-04				
				DEC.	INCHES			CHK	ML	01-12-05		
4	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/15/13	ST	.X	±.1	REGAL BELOIT CORPORATION TITLE OUTLINE 56 FR. - EXP. PR. - TEFC - 1φ & 3φ MAT'L. FINISH	APPD	DRN	01-13-05		
3	REVISED C'BOX PER CN40784A	JJB	02/23/2007	ML	.XX	±.03		SCALE	1=2			
2	CHANGED LOGO TO REGAL BELOIT	TAT	09-07-2005	ML	.XXX	±.005		REF				
1	ADD GE TO PART NO	MJK	12/20/2004		.XXXX	±.0005		FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"			PREV				
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EE7335

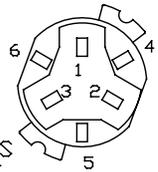
HIGH VOLTAGE CONNECTIONS



LOW VOLTAGE CONNECTIONS



THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR

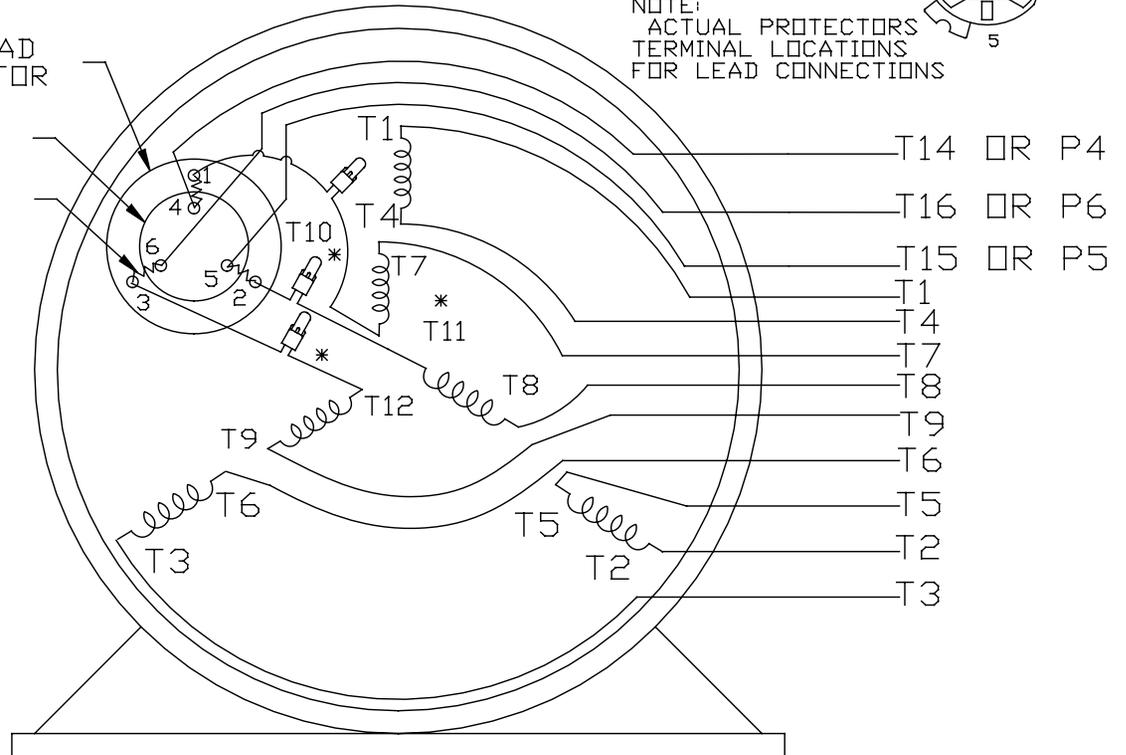


NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD CONNECTIONS

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	REF		
13	REDRAWN IN AUTO CAD	KL 08/11/93		.XXXX	±.0005	MAT'L.	FMF		
				ANG	±1/2*		PREV		
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				DIST			A	EE7335	

Data Sheet

Date: 11/27/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



5K49MN6382

Submittal

Data @ 460 V

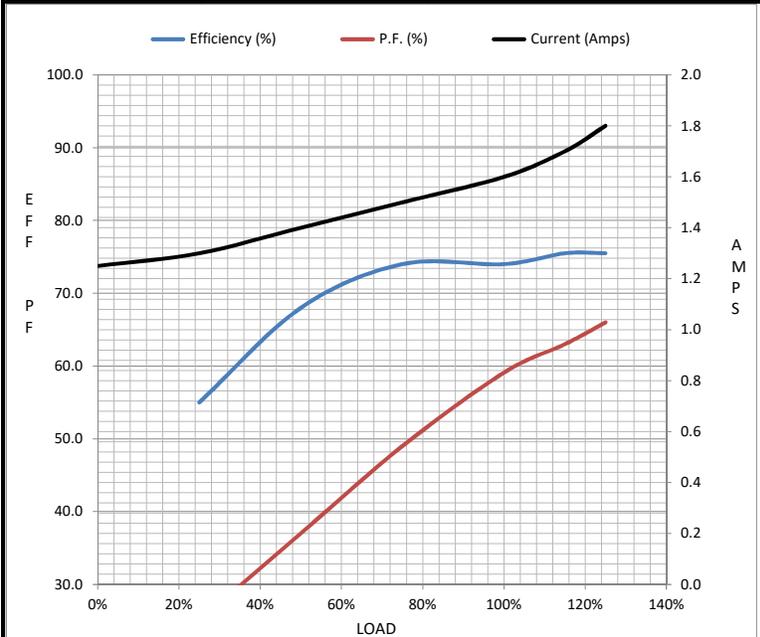
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.25	1.30	1.40	1.50	1.60	1.70	1.80	8.5
Torque (ft-lb)	0.00	0.84	1.70	2.50	3.4	4.0	4.6	8.8
RPM	1200	1190	1180	1165	1145	1,140	1135	0
Efficiency (%)		55.0	68.0	74.0	74.0	75.5	75.5	
P.F. (%)	10.5	25.0	37.0	49.0	59.1	63.0	66.0	68.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1050	1145	1200
Current (Amps)	8.5	7.7	6.0	1.60	1.25
Torque (ft-lb)	8.8	7.9	12.5	3.4	0.00

Information Block				
HP	0.8			
Sync. RPM	1200			
Frame	56			
Enclosure	EPFC			
Construction	TSE			
Voltage	208-230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.06 Lb-Ft ²			
Ref Wdg	ZT607 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-104189GE-681			
Conn. Diag	A-EE7335-GE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
16.2540	10.9620	18.4460	19.0890	207.9000



Speed - Torque Curve

