

PRODUCT INFORMATION PACKET



Model No: 5K42GN4619

Catalog No: K606

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56C Frame, TEFC



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Nameplate Specifications

Phase	3	Output HP	0.50 Hp
Output KW	0.37 kW	Voltage	230/460 V
Speed	1725 rpm	Service Factor	1.15
Frame	56C	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Automatic	Efficiency	72 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	2.2/1.1 A	Power Factor	60
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	55
Number of Speeds	1		

Technical Specifications

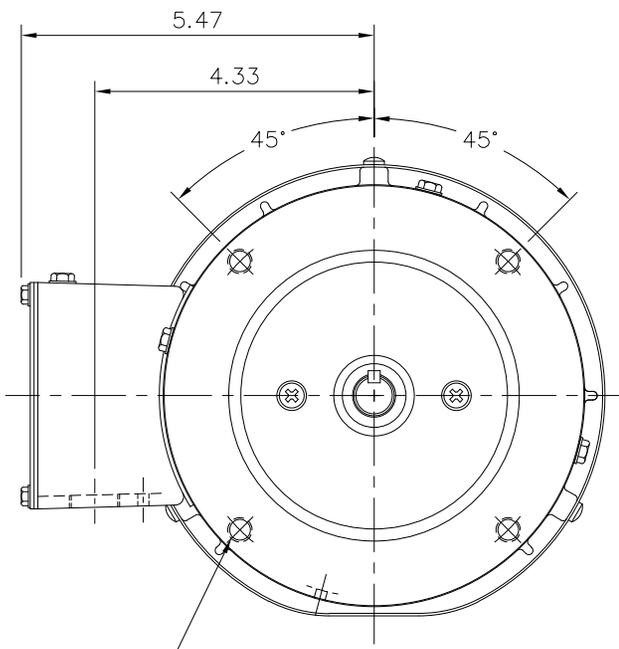
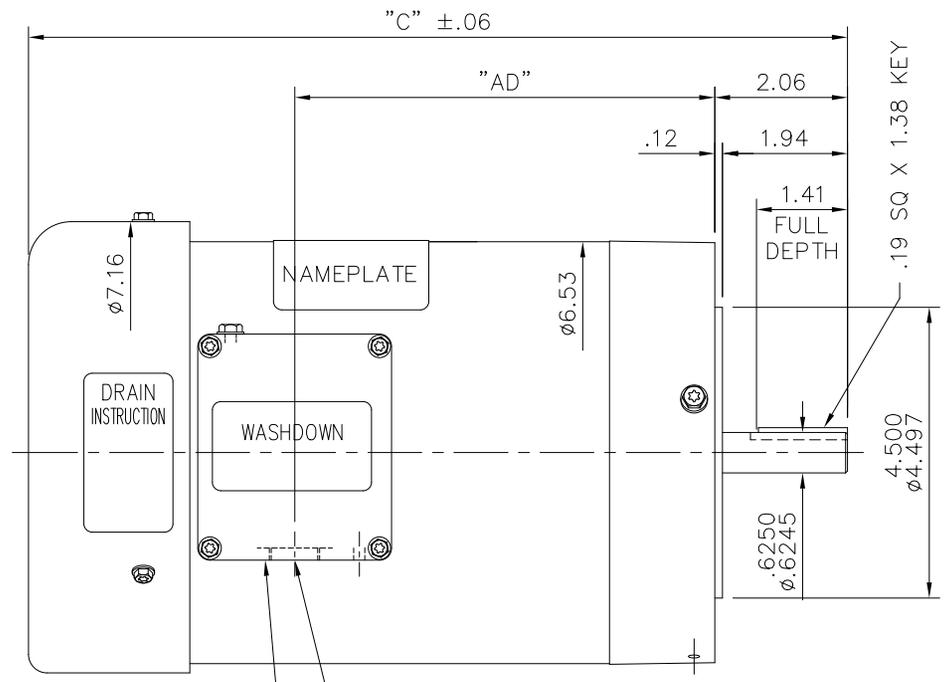
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	33.92 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	11.69 in
Frame Length	5.00 in	Shaft Diameter	0.625 in
Shaft Extension	2.06 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005010.20ME	Outline Drawing	028716ME-500

4

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DECAL- CONNECTION & T'STAT. UNDER COVER (WHEN REQ'D)

(1) 1/2-14 NPT (PLUGGED)

SPECIAL FEATURES:

- 1) SHAFT SEALS & V-RING
- 2) DRAIN HOLES IN BOTH ENDBELLS & CONDUIT BOX
- 3) GASKETS THROUGHOUT
- 4) STAINLESS STEEL SHAFT, HARDWARE & NAMEPLATE

DASH NO.	"C"	"AD"
450	10.69	4.50
500	11.19	5.00
550	11.69	5.50
600	12.19	6.00
650	12.69	6.50

MAXIMUM FACE RUNOUT .004 T.I.R.
 MAXIMUM PILOT ECCENTRICITY .004 T.I.R.
 PERMISSIBLE SHAFT RUNOUT .002 T.I.R.

DRAWING REVISION C	REVISION BY KVDG	REV DATE/ DATE 07/31/2025	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±7'30" .XX ±0.03 [±0.8] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 125/3.2 INCH/mm	DRAWN BY LST	Regal Beloit America, Inc.	
REQUEST NUMBER ECR-0244746	APPROVED BY DS	DATE 07/31/2025		DATE 07/09/2009		
REQUEST NUMBER DESCRIPTION UPDATED FROM MARATHON TO RRX TEMPLATE				APPROVED BY	DESCRIPTION OUTLINE - 56C FRAME TEFC - "C" FRAME	
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			REFERENCE 112644	THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER 028716ME

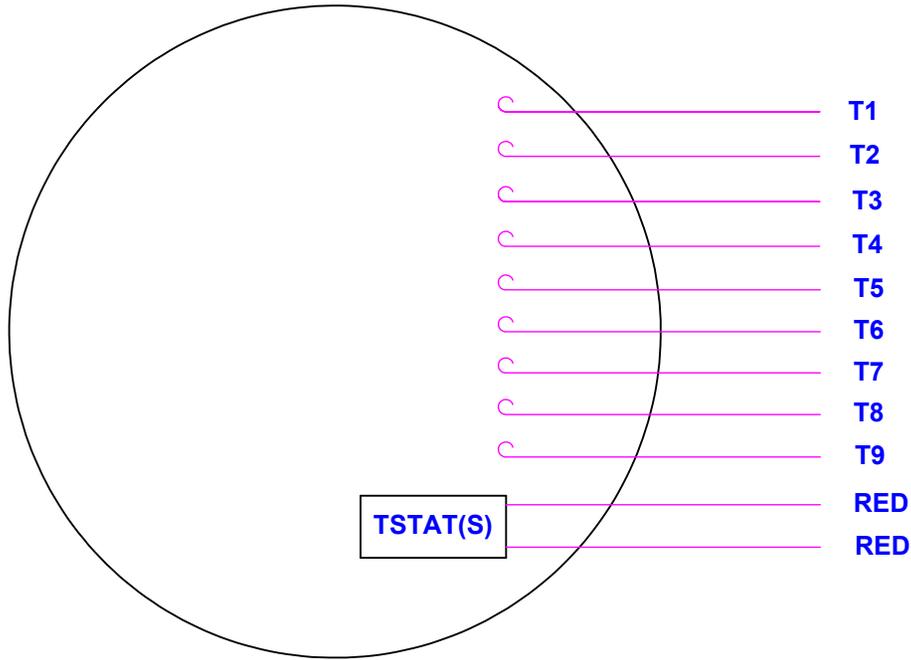
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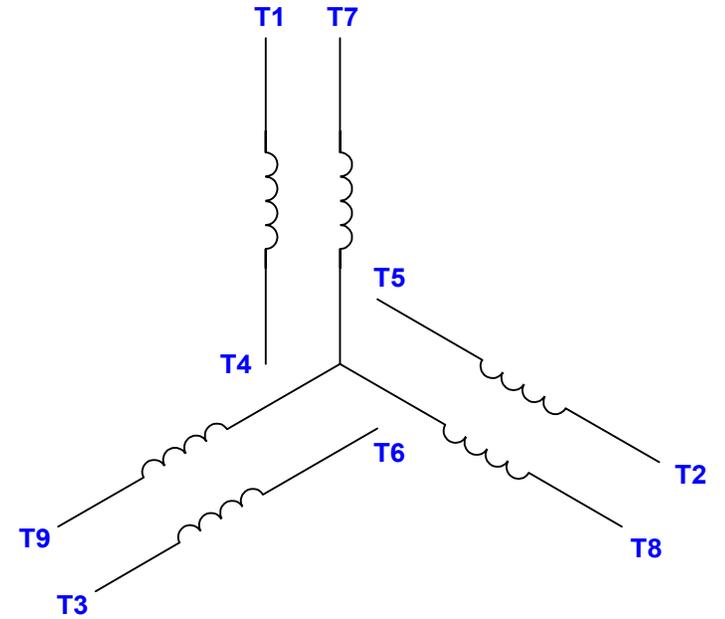
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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4, T7) (T5, T8) (T6, T9)
LOW	T1, T7	T2, T8	T3, T9	T4, T5, T6

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				TOLERANCES UNLESS SPECIFIED		DRAWN RDW 04/13/04	
				DEC	INCHES	CHK	
				.X	±.1	APPR	
				.XX	±.01	SCALE 1:1	
1	CHG FROM MARATHON TO RRX TEMPLATE AS PER ECR-0237142	KVDG 09/19/24	DS	.XXX	±.005	REF	
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11		.XXXX	±.0005	MAT'L DECAL - 004014 (TSTAT) - 080582	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	PAGE OF	
THIRD ANGLE PROJECTION			RFP	PREV		SIZE	DRAWING NO
			NETWORK FILE NAME		00501020ME	A	005010-20ME
							REV
							1

Regal Rexnord Regal Beloit America, Inc.

TITLE EXTERNAL WIRING DIAGRAM
3 PHASE



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:		CUSTOMER P.O. #:	
ORDER #:		REFERENCE MODEL #:	5K42GN4619
CONN. DIAGRAM:	005010.20ME	CAT #:	K606
OUTLINE:	028716ME-500	CUSTOMER PART #:	
WINDING:	T634376 NONE 3	MOUNTING:	F1 ONLY
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
0.5	0.37	1800	1745	56	TEFC	NA	L	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	2.1/1.05	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	72.8	3/4 LD EFF	69.2	1/2 LD EFF	62.1	GTD EFF	0.0	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	60.5	3/4 LD PF	51.5	1/2 LD PF	41.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
383 LB-FT	6.0	1,308 LB-FT 342%	1,722 LB-FT 450%	45

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	0.05 LB-FT²	0.1 LB-FT²	0 SEC.	0	0 LB.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	ROUND	HORIZONTAL	NO	NONE	NO	NONE	GRAY - EPOXY

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL
6205	6203						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	AUTOMATIC	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	0	0	0	0	0.080	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
		ENCODER: NONE NONE NONE NONE PPR

PREPARED BY: FAREEDA DUDEKULA DATE: 8/24/2018	BRAKE: NONE
	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
FORM: 3531 REV_4 2/27/06	UL: X-GE-INS, CONST, AUTO PRT UL REC

Data Sheet

5K42GN4619

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



Submittal

Data @ 460 V

Motor Load Data

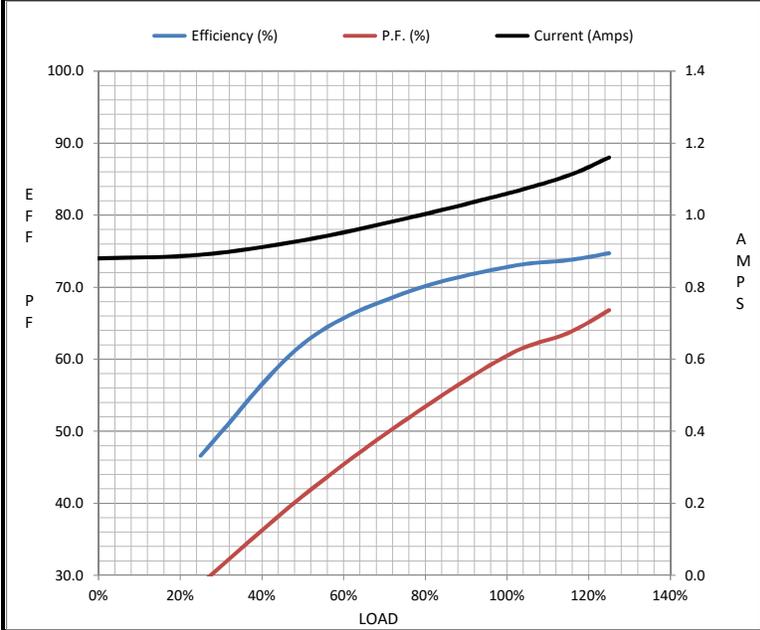
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.88	0.89	0.93	0.99	1.06	1.11	1.16	6.0
Torque (ft-lb)	0.00	95.7	191	287	383	6,867	478	1,308
RPM	1800	1784	1771	1758	1745	1,739	1729	0
Efficiency (%)		46.6	62.1	69.2	72.8	73.8	74.7	
P.F. (%)	16.0	28.8	41.0	51.5	60.5	63.7	66.8	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	1745	1800
Current (Amps)	6.0	5.5	3.6	1.06	0.88
Torque (ft-lb)	1,308	1,276	1,722	383	0.00

Information Block

HP	0.5			
Sync. RPM	1800			
Frame	56			
Enclosure	TEFC			
Construction	TF			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.05 Lb-Ft ²			
Ref Wdg	T634376 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	028716ME-500			
Conn. Diag	005010.20ME			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

