

# PRODUCT INFORMATION PACKET



Model No: 102861.00

Catalog No: 102861.00

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, S56C Frame, TENV

Operational at 208-230/460 V @60HZ



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RegalRexnord



### Nameplate Specifications

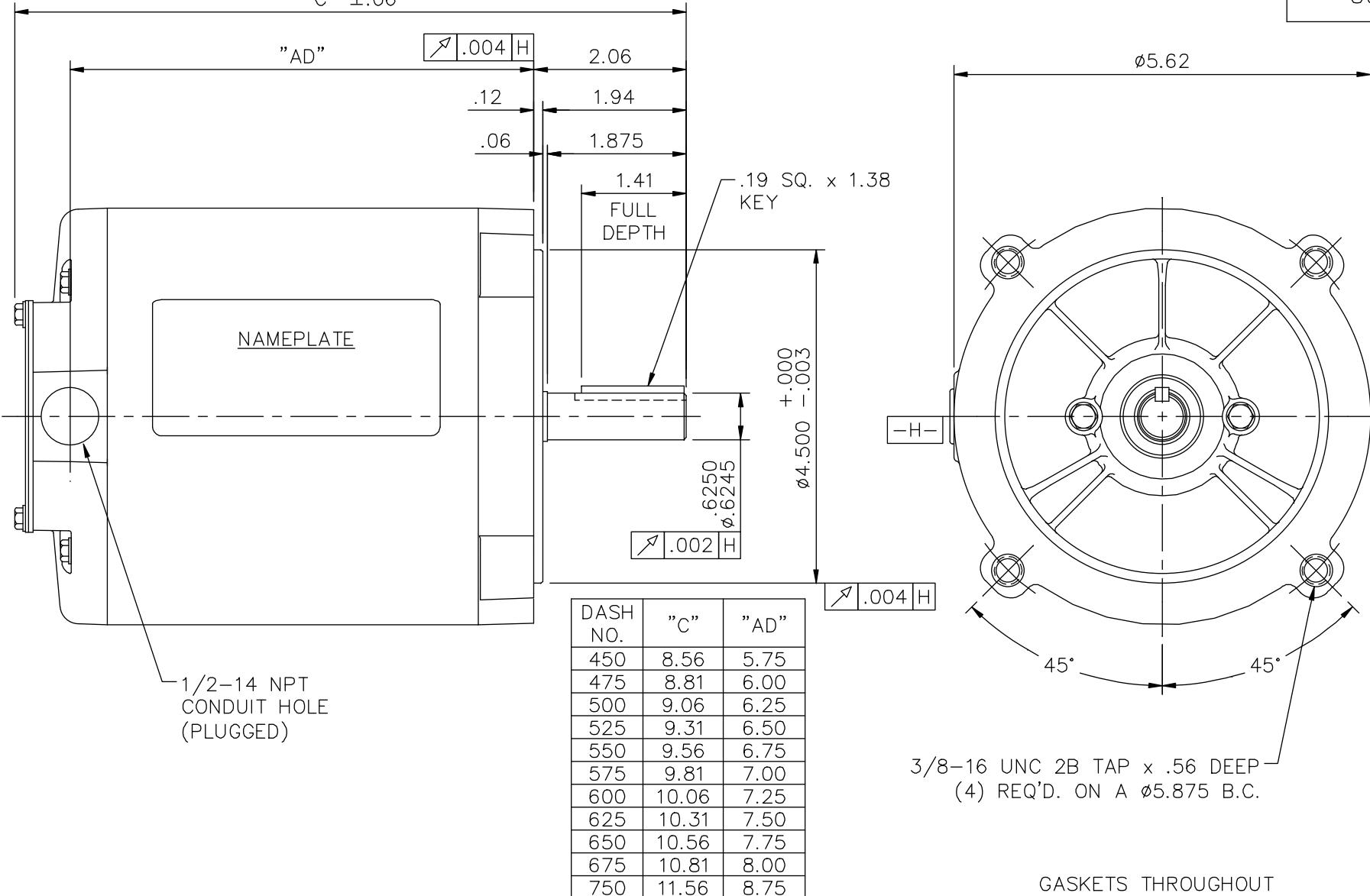
Phase	3	Output HP	0.50 Hp
Output KW	0.37 kW	Voltage	230/460 V
Speed	1725 rpm	Service Factor	1.15
Frame	S56C	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Efficiency	77 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	1.8/0.90 A	Power Factor	69
Duty	Continuous	Insulation Class	B
Design Code	NO DESIGN CODE	KVA Code	M
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	9.166 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	10.06 in
Frame Length	6.00 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	031654-600	Connection Drawing	005010.01

"C"  $\pm .06$ 

031654



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

TITLE

OUTLINE - S56C FRAME  
"C" FACE MOUNT - TENV

DRAWN PG 9/28/01

CHK

APPD

SCALE 1=2

REF 031078

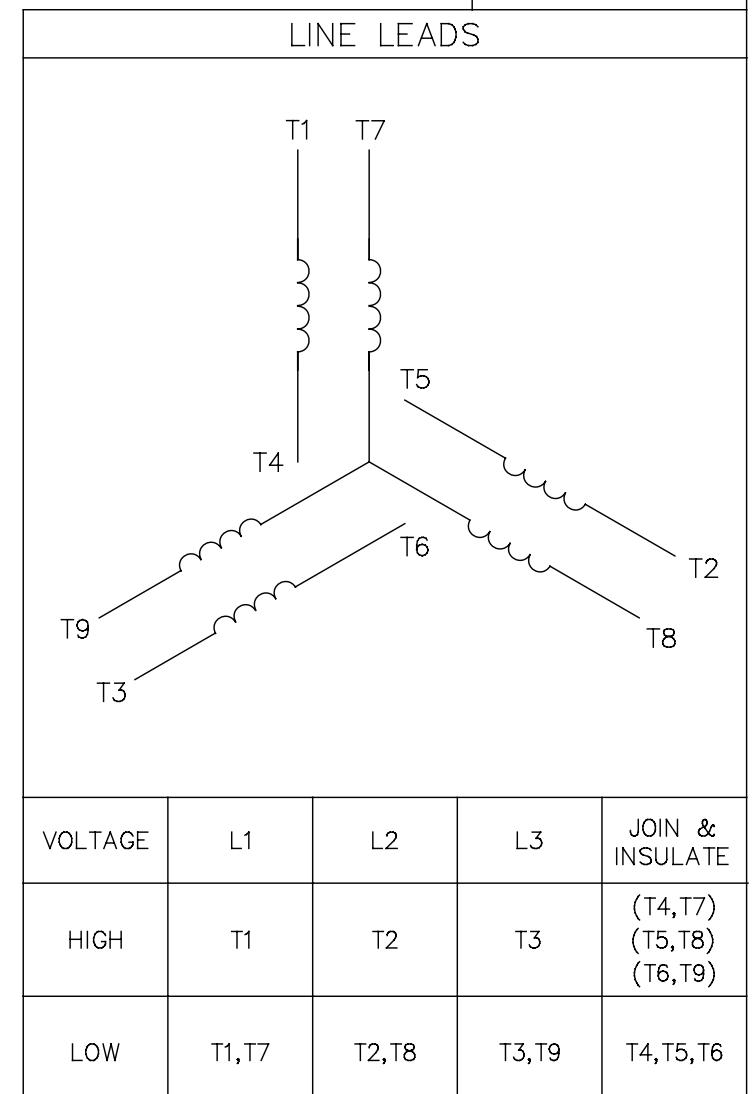
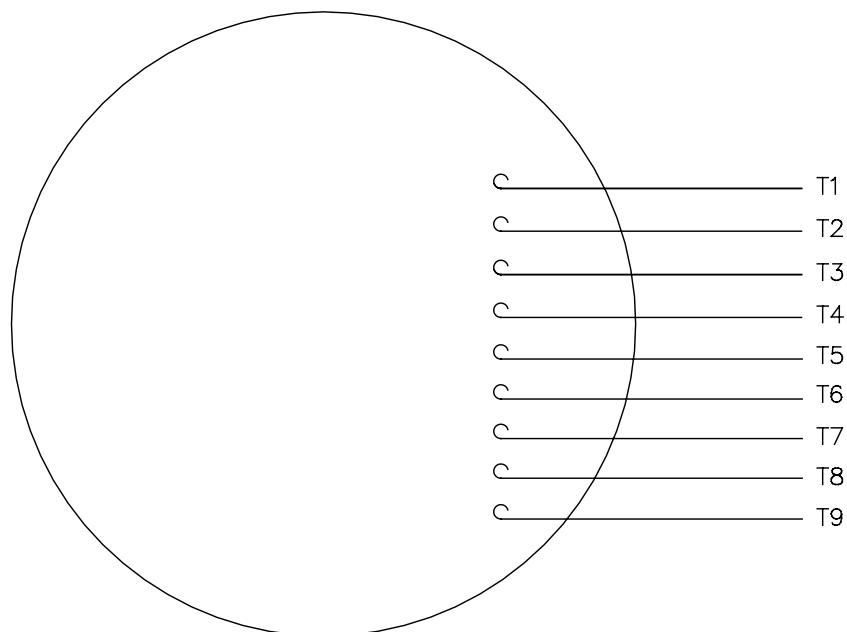
FMF 101648

PREV

NO.	REVISION	BY & DATE	TOLERANCES UNLESS SPECIFIED		TITLE	DRAWING NO.	REV.
			DEC.	INCHES			
01	REVISED CALLOUT FOR GD&T	KMM 6/6/02	.XXXX	$\pm .0005$	MAT'L.	3 PHASE	
			.XX	$\pm .03$	RFP CAD FILE DIST		
			.XXX	$\pm .005$			
					FINISH		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT					SIZE		
					A	031654	01

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



		TOLERANCES UNLESS SPECIFIED				REGAL™	Regal Beloit America, Inc.	DRAWN RDW 04/12/02	
		DEC.	INCHES					CHK	APPD
		.X	±.1						
		.XX	±.01						
		.XXX	±.005						
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	XXXX	±.0005	MAT'L.	DECAL - 004014	FMF	
NO.	REVISION	BY & DATE	CHK	ANC	±1/2"	FINISH		PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	04/12/02	CAD FILE	00501001	SIZE	DRAWING NO.
				DIST	BRF-NLV			A	005010-01
									REV. A



CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-377-8810

CONN. DIAGRAM: 005010.01

CATALOG #: 102861.00

OUTLINE: 031654-600

MOUNTING: F1 ONLY

WINDING #: TE48453 NR 3 D

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	S56C	TENV	M	NO DESIGN CODE

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	208-230/460	1.8-1.8/.9	ACROSS THE LINE	CONTINUOUS	B3	1.15	40

FULL LOAD EFF:	77	3/4 LOAD EFF:	73.8	1/2 LOAD EFF:	66.9	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	69	3/4 LOAD PF:	60.2	1/2 LOAD PF:	47.5	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24 OZ-FT	12.6 / 6.3	91.4 OZ-FT 381 %	98 OZ-FT 408 %	-

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.053 LB-FT^2	0 LB-FT^2	10 SEC.	0	0 LBS.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS DE ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL		FRAME MATERIAL
BALL BALL	MULTEMP SRL	T	NONE	NONE	1144 STRESSPROOF (C-223)		ROLLED STEEL
6203 6203							

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*	INVERTER TORQUE: NONE	
N	INV. HP SPEED RANGE: NONE	
O	ENCODER: NONE	
T	NONE NONE	
E	NONE P/N NONE	
S	NONE NONE	
	FT-LB NONE V NONE Hz	

## Data Sheet

Date: 1/24/2018

102861.00



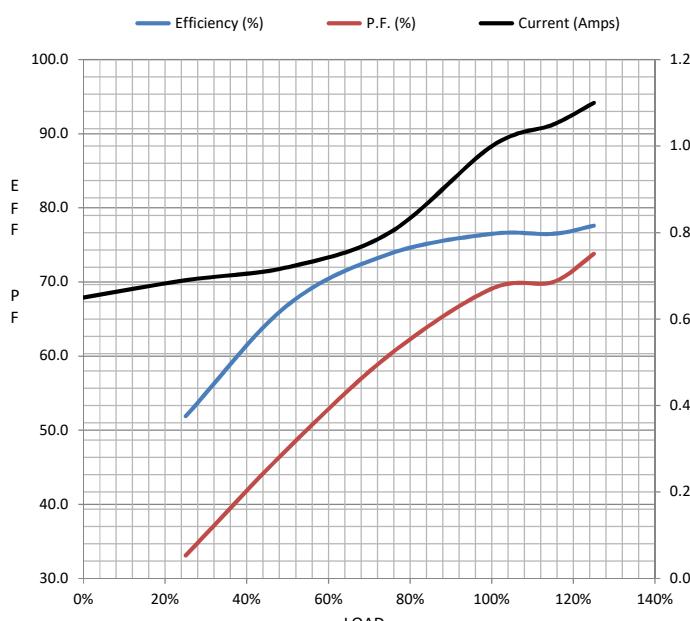
Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.65	0.69	0.72	0.80	1.00	1.05	1.10	6.3	
Torque (ft-lb)	0.00	94.5	186	289	383	447	450	1,459	
RPM	1800	1787	1774	1760	1747	1,735	1737	0	
Efficiency (%)	51.9	66.9	73.8	76.5	76.5	77.6			
P.F. (%)	22.8	33.1	47.5	60.2	69.1	70.0	73.8	0.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1656	1747	1800	HP	0.5
Current (Amps)	6.3	5.8	3.8	1.00	0.65	Sync. RPM	1800
Torque (ft-lb)	1,459	1,213	1,565	383	0.00	Frame	48



A M P S	Construction	TTR
	Voltage	208-230/460 V
	Frequency	60 Hz
	Design	B
	LR Code letter	M
	Service Factor	1.0
	Temp Rise @ FL	81 °C
	Duty	CONT
	Ambient	40 °C
	Elevation	1,000 feet
	Rotor/Shft wk <sup>2</sup>	0.05 Lb-Ft <sup>2</sup>
	Ref Wdg	TE48453 NR
	Sound Pressure @ 1M	0 dBA
	VFD Rating	NONE
	Outline Dwg	031654-600
	Conn. Diag	005010.01
	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

