PRODUCT INFORMATION PACKET

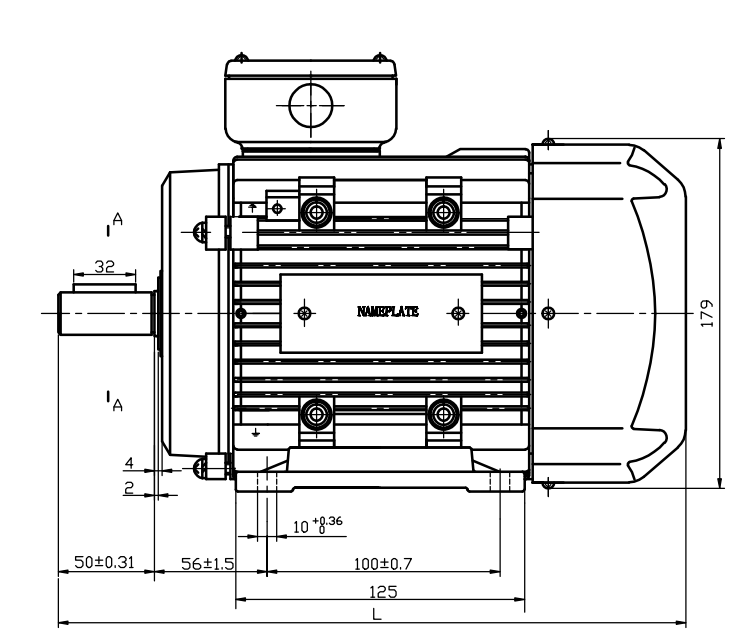
Model No: 090ST17FH6327
Catalog No: R416A
1 1/2,1800,TEFC,90S,3/60/575
TEFC

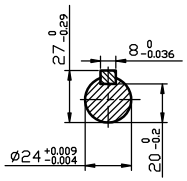
Nameplate Specifications

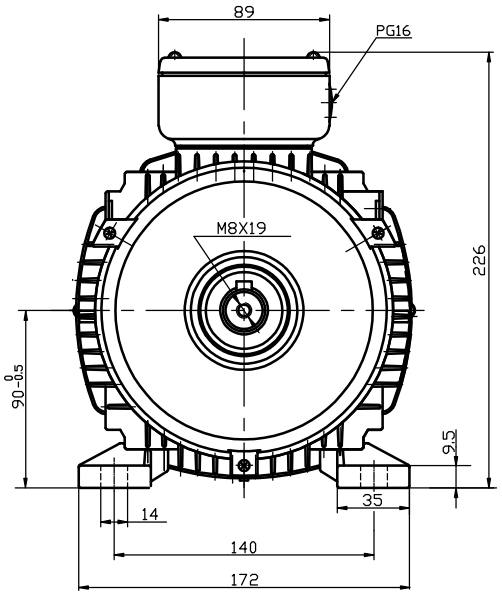
Output HP	**1.50 Hp**	Output KW	**1.1 kW**
Frequency	**60 Hz**	Voltage	**575 V**
Current	**1.8 A**	Speed	**1745 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**86.5 %**	Duty	**Continous**
Insulation Class	**F**	Design Code	**NO DESIGN CODE**
KVA Code	**K**	Frame	**90S**
Enclosure	**Totally Enclosed Fan Cooled**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6205**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**55**		

Technical Specifications

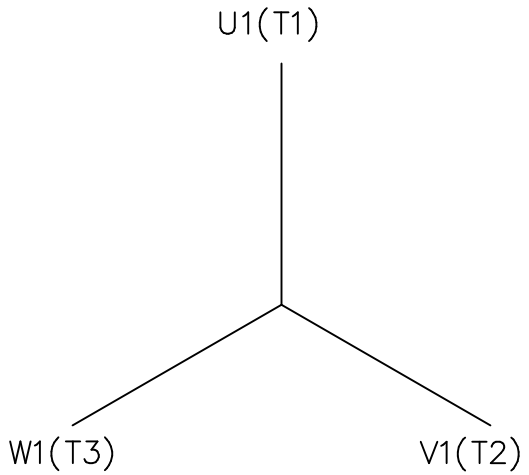
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Reversible**
Mounting	**Rigid base**	Motor Orientation	**Horizontal**
Drive End Bearing	**Ball**	Opp Drive End Bearing	**Ball**
Frame Material	**Aluminum**	Shaft Type	**IEC**
Overall Length	**12.83 in**	Shaft Diameter	**1.000 in**
Shaft Extension	**1.96 in**	Assembly/Box Mounting	**F3**
Outline Drawing	**039074**	Connection Diagram	**00546801ME**



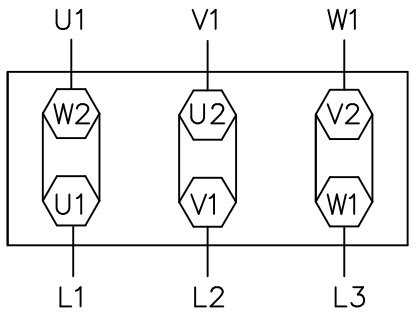




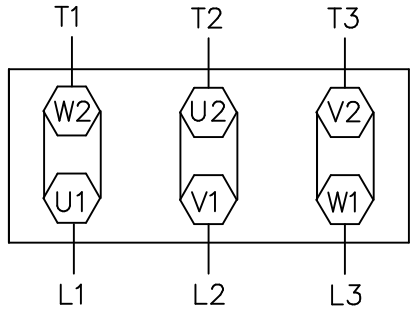
				TOLERANCES UNLESS OTHERWISE SPECIFIED			REGAL BELOIT CORP.		
				DEC.	INCHES	METRIC			
				.X	±.1	±2.5	DRAWN WX 16/12/01	TITLE OUTLINE	
				.XX	±.03	±.76	APPR.		
				.XXX	±.005	±.127	R.F.P.	MAT'L.	
NO.	REVISION	BY & DATE	CH'K'D.	.XXXX	±.0005	±.0127	SCALE		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY 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				FRACTIONS		±1/64	REF.	FINISH	REV. / DRAWING NO.
				ANGLES		±1/2'	FMF	SMC	039074



IEC MARKINGS



NEMA MARKINGS



TO REVERSE ROTATION
INTERCHANGE ANY TWO
LINE LEADS

				TOLERANCES UNLESS SPECIFIED			
				DEC.	INCHES		
				.X	±.1		
				.XX	±.01	TITLE: EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROT W/TERM. BLOCK	SCALE 3=4
				.XXX	±.005		REF
				.XXXX	±.0005	MAT'L.	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PREV

MARATHON ELECTRIC

DRAWN JGO 3/10/04
CHK
APPD

RFP
DIST

CAD FILE 00546801ME

SIZE	DRAWING NO.	REV.
A	005468–01ME	

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CERTIFICATION DATA SHEET

Model#:	90ST17FH6327 A	**WINDING#:**	QT9046 FR 4
CONN. DIAGRAM:	00546801ME	**ASSEMBLY:**	F3
OUTLINE:	039074		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	1800	1745	90S	TEFC	K	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	1.8	ACROSS THE LINE	CONTINUOUS	F5	1.15	40	3300

FULL LOAD EFF: 86.5	3/4 LOAD EFF: 89.7	1/2 LOAD EFF: 88.3	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 74.9	3/4 LOAD PF: 67.4	1/2 LOAD PF: 57.8	0	SQ CAGE IND RUN	.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.507 LB-FT	14	9.86 LB-FT 219	13.51 LB-FT 300	21

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 LB-FT^2	0 LB-FT^2	10 SEC.	2	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6205	BALL 6205	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	ALUMINUM

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

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

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** Subject to change without notice.