TECHTOP electric motors	**Model Number**	**GR3-AL-TF-90SB3-4-B-D-1.5-230|460-60**
	MFG PN	**T90S-4**
	List Price	**--**

All data shown at HIGH voltage setting — Format: STD 3 Phase

Electrical Data	
Rated Motor Output Power	1.5 HP
Rated Motor Speed	1740 r/min
Rated Motor Voltage (3 Phase)	230|460-60 Volts - HZ
Rated Motor Current	4.36/2.48 Amps
Service Factor	1.15
KVA Code	K
Nominal Efficiency	86.5 %
Nominal Power Factor	0.74 cosθ
Full Load Torque Ft-Lb	3.26432256 Ft-Lb
Temp Rise @ Full Load °C	36.8
Efficiency Level	IE3 - NEMA Premium

Load Data	**RPM**	**Trq %FL**	**Current Amps**
Locked Rotor	-	311	20.63
Breakdown	-	390	-
Pull Up	-	309	-
125% of FL	1738	-	2.87
75% of FL	1762	-	2.21
50% of FL	1775	-	1.91
No Load	1796	-	1.65

Hazardous Location	**Class 1, Div 2, Grp A,B,C,D**

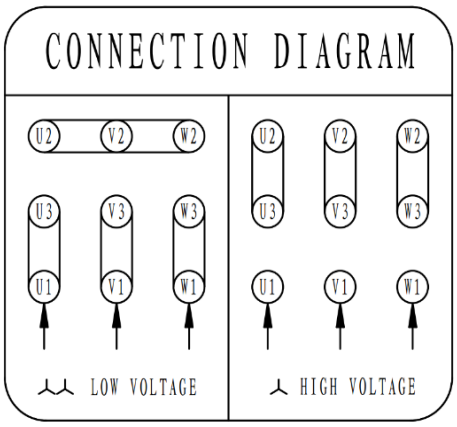
General Data	
Frame Size	90
Enclosure	TEFC
Approximate Weight	--
NEMA Design	B
IP Rating	55
Insulation Class	F
Tropicalization	YES
Duty	Cont.
Cable Entry	M20 X 1.5
Feet Removable	YES
Double Drilled	NO
Rated Ambient (°C)	40
Rated Altitude (M)	1000
Coating	7024 - Graphite Grey
Shaft Grounding	NO
Brake Voltage (DC)	--
Brake Torque (N-M)	--

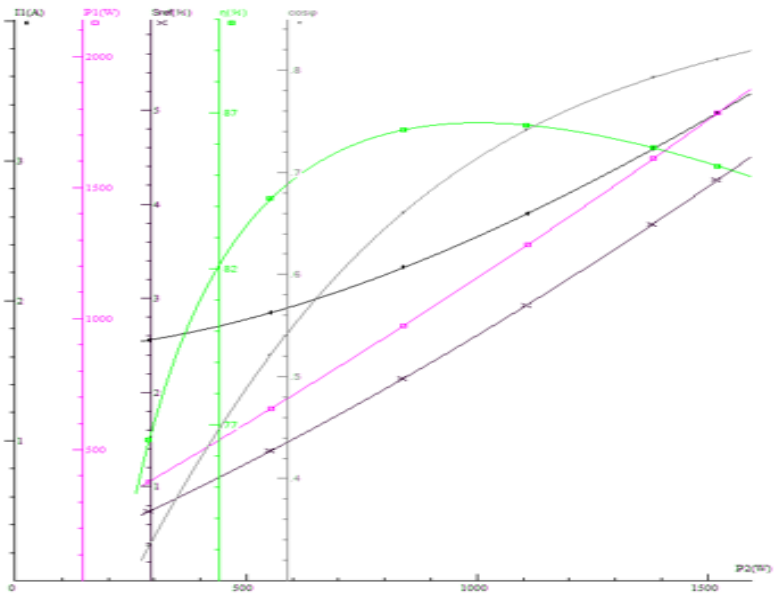
Mechanical Data	
Bearing DE Side	6205ZZ
Bearing NDE Side	6205ZZ
Moment of Inertia	0.00372 kg.m2
Noise Level	Per NEMA dB (A)

CT VFD Range	--

Loaded Torque Curves -- **P1 = INPUT POWER (KW), S = Slip (% of Sync RPM), η = Efficiency (%), cosϕ = Power Factor**

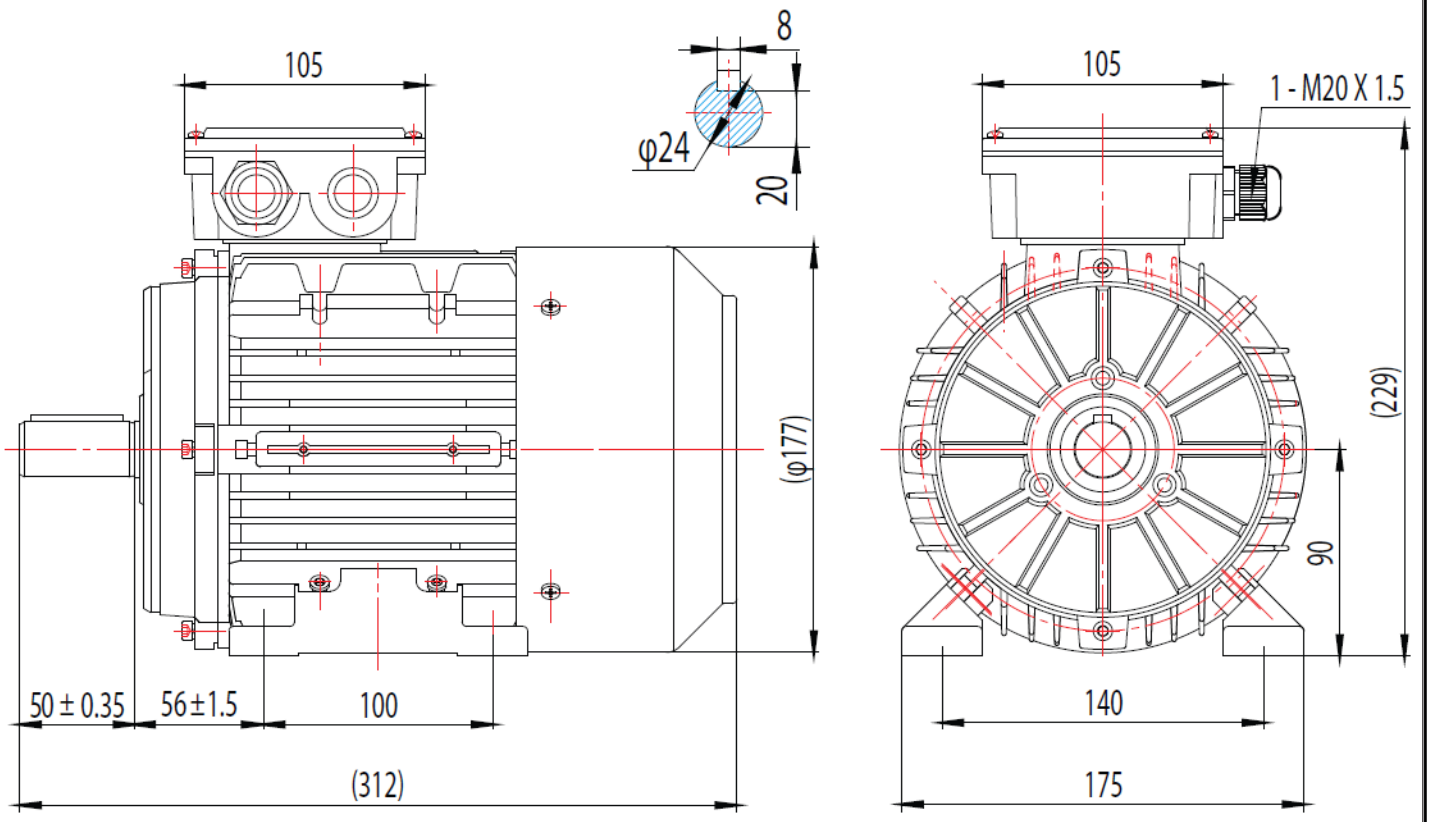
Certifications	UL	CSA	DOE
File Numbers	**323353**	**224693**	096A
Wiring Diagram	**3PH 9 Lead IEC Dual Voltage**		





Model Number	GR3-AL-TF-90SB3-4-B-D-1.5-230|460-60
MFG PN	T90S-4
List Price	--
Base Frame	GR-90SB3-AL-TF

FRAME: 90SB3	HP:	RPM:	PHASE: 3	VOLT:	ENCL: TEFC	FREQ: 60 Hz	FLA:	LRA:



	MODEL NUMBER:	REV.	BY	DATE	CHANGES
TECHTOP	GR3-AL-TF-90SB3	1			
		2			
	MFG PN:	3			
MATERIAL: ALUMINUM		4			
UNITS: INCH BY: SSEE		5			
DRAWN: 6/4/2018		6			
WWW.TECHTOP.COM		7			

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