TECHTOP electric motors	**Model Number**	**GR3-AL-TF-143JM-2-B-D-1.5-230|460-60**	
	MFG PN	**T143T1.5U2B**	
	List Price	**--**	

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

Electrical Data		**General Data**	
Rated Motor Output Power	1.5 HP	Frame Size	143
Rated Motor Speed	3500 r/min	Enclosure	TEFC
Rated Motor Voltage (3 Phase)	230|460-60 Volts - HZ	Approximate Weight	41.8
Rated Motor Current	4.12/2.06 Amps	NEMA Design	B
Service Factor	1.25	IP Rating	55
KVA Code	K	Insulation Class	F
Nominal Efficiency	84 %	Tropicalization	YES
Nominal Power Factor	0.84 cosθ	Duty	Cont.
Full Load Torque Ft-Lb	2.227552 Ft-Lb	Cable Entry	3/4"-14 NPSC
Temp Rise @ Full Load °C	45.4	Feet Removable	YES
Efficiency Level	IE3 - NEMA Premium	Double Drilled	NO

Load Data	**RPM**	**Trq %FL**	**Current Amps**	Rated Ambient (°C)	40
Locked Rotor	-	312	15.73	Rated Altitude (M)	1000
Breakdown	-	346	-	Coating	7024 - Graphite Grey
Pull Up	-	--	-	Shaft Grounding	NO
125% of FL	3432	-	2.39	Brake Voltage (DC)	--
75% of FL	3508	-	1.62	Brake Torque (N-M)	--
50% of FL	3540	-	1.32	**Mechanical Data**	
No Load	--	-	1	Bearing DE Side	6205ZZ
Hazardous Location	**Class 1, Div 2, Grp A,B,C,D**			Bearing NDE Side	6205ZZ
				Moment of Inertia	0.00157 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

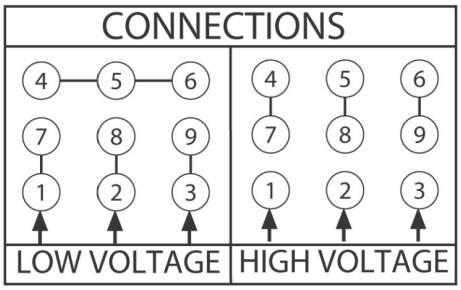
Wiring Diagram	**3PH 9 Lead Dual Voltage**

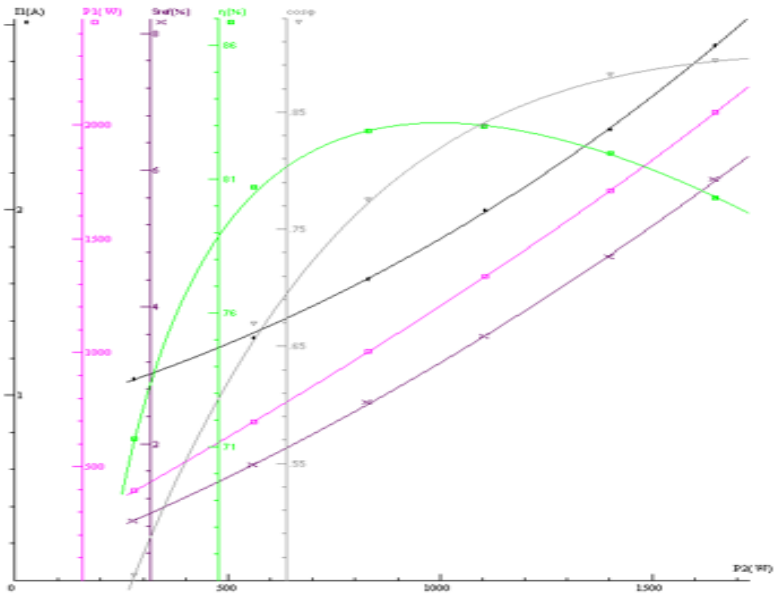
3 Phase - YY/Y - 9 Lead

4,1 Blue / 5,2 White / 6,3 Org / 7 Yl / 8 Blk / 9 RD

Cast Iron- 1,2,3 Top - 4,5,6,7,8,9 Bottom

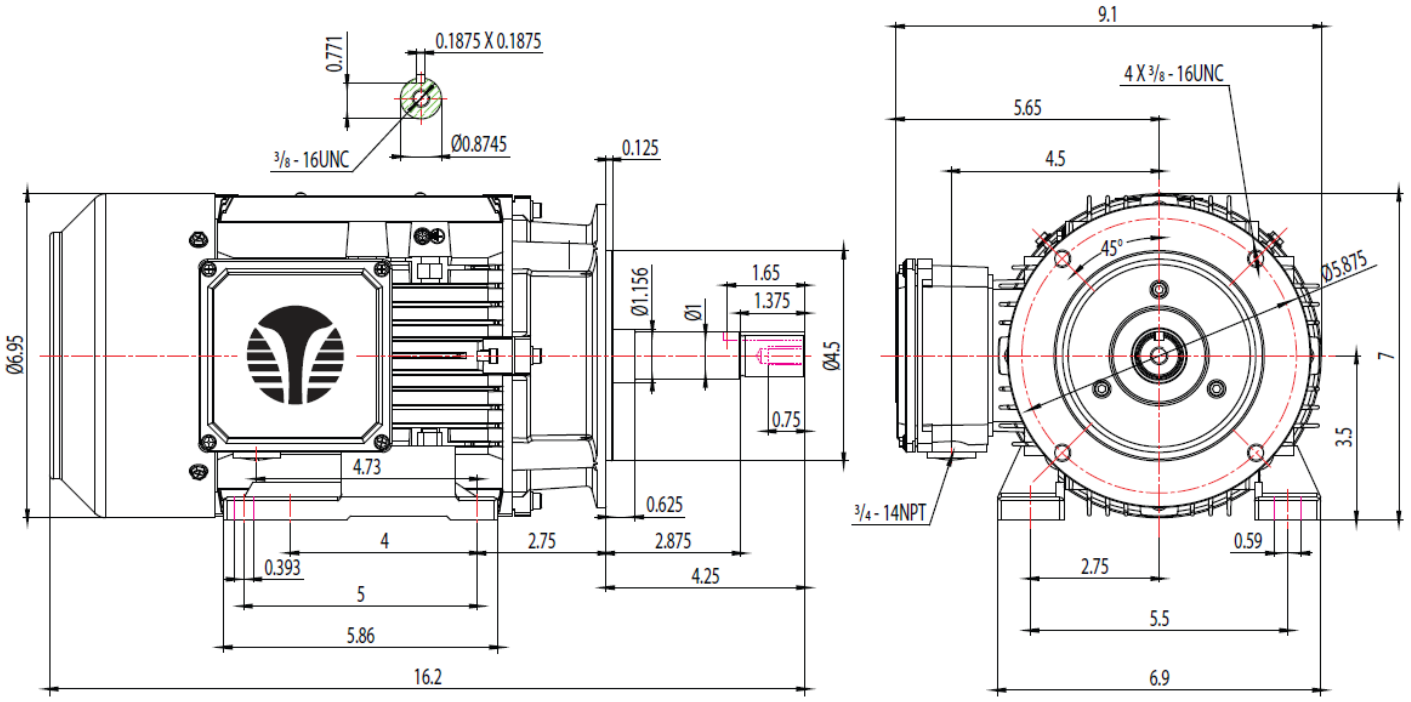
Aluminum - 4,5,6,8,9 Top - 1,2,3,7 Bottom





Model Number	GR3-AL-TF-143JM-2-B-D-1.5-230|460-60
MFG PN	T143T1.5U2B
List Price	--
Base Frame	GR-143JM-AL-TF

FRAME: 143JM	HP:	RPM:	PHASE: 3	VOLT: 115/208-230V	ENCL: TEFC	FREQ: 60 Hz	FLA:	LRA:



TECHTOP	MODEL NUMBER:	REV.	BY	DATE	CHANGES
	GR3-AL-TF-143JM	1			
	MFG PN:	2			
MATERIAL: ALUMINUM		3			
UNITS: INCH BY: SSEE		4			
DRAWN: 6/11/2018		5			
WWW.TECHTOP.COM		6			
		7			

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