TECHTOP electric motors	**Model Number**	**SD3-145TC-4-BR-E-1.5-460-60**
	MFG PN	**T145T1.5U4B**
	List Price	**--**

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

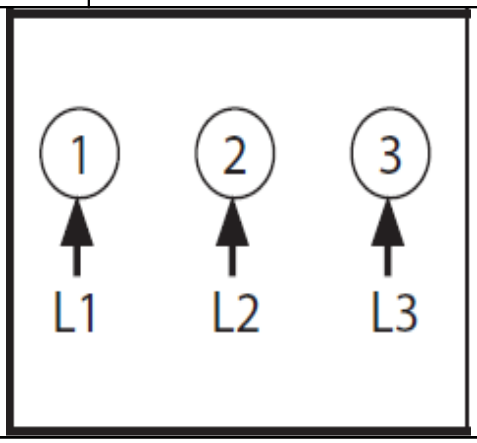
Electrical Data		**General Data**	
Rated Motor Output Power	1.5 HP	Frame Size	145
Rated Motor Speed	1740 r/min	Enclosure	TEFC
Rated Motor Voltage (3 Phase)	460-60 Volts - HZ	Approximate Weight	55
Rated Motor Current	2.2 Amps	NEMA Design	B
Service Factor	1.25	IP Rating	56
KVA Code	--	Insulation Class	F
Nominal Efficiency	-- %	Tropicalization	YES
Nominal Power Factor	-- cosθ	Duty	Cont.
Full Load Torque Ft-Lb	6.06 Ft-Lb	Cable Entry	1.25
Temp Rise @ Full Load °C	36.8	Feet Removable	YES
Efficiency Level	IE3 - NEMA Premium	Double Drilled	NO

Load Data	**RPM**	**Trq %FL**	**Current Amps**	Rated Ambient (°C)	40
Locked Rotor	-	311	7.92	Rated Altitude (M)	1000
Breakdown	-	351	-	Coating	7024 - Graphite Grey
Pull Up	-	216	-	Shaft Grounding	YES
125% of FL	1732	-	2.53	Brake Voltage (DC)	--
75% of FL	1762	-	1.75	Brake Torque (N-M)	--
50% of FL	1775	-	1.47	**Mechanical Data**	
No Load	1796	-	1.19	Bearing DE Side	6205ZZ
Hazardous Location	**CL1 Div2 Grp A,B,C,D**			Bearing NDE Side	6205ZZ
				Moment of Inertia	-- 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	

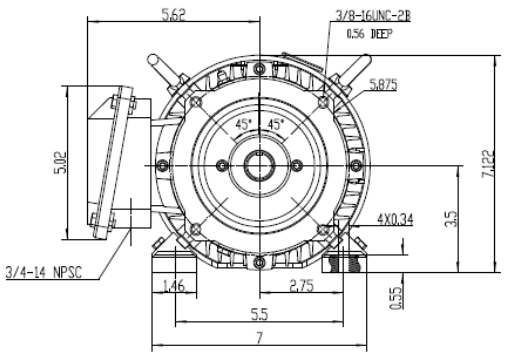
Certifications	UL	CSA	DOE
File Numbers	**323353**	**224693**	096A

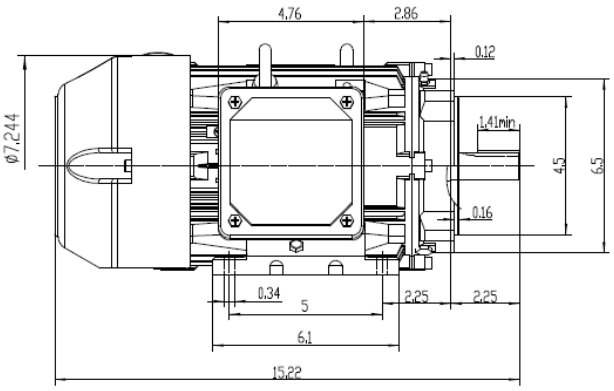
Wiring Diagram — **3PH Single Voltage SD3**

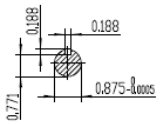


Techtop Industries -2815 Colonnades Court - Peachtree Corners, GA 30071 - Phone: (678) 436-5540

Model Number	SD3-145TC-4-BR-E-1.5-460-60
MFG PN	T145T1.5U4B
List Price	--
Base Frame	SD-145TC-CI-TF







NOTES:

1. All Cast Iron Construction
2. Design B
3. IP55 Labyrinth seals on DE and ODE
4. H Class Insulation System
5. Max Winding Temperature rise 80°C
6. Max bearing temperature rise 45°C for 4 pole and 50°C for 2 pole motors when direct coupled.
7. Regreasable bearings
8. External Grounding provisions
9. Maximum foot flatness deviation .127 mm
10. Conductive Polymer Cooling Fan
11. Diagonally Split Conduit Box rotatable in 90° Increments
12. Lead seals in conduit box
13. Maximum no load sound power 85 dBA(2 pole),
    Maximum no load sound power 70 dBA(4 pole),
    Maximum no load sound power 64 dBA(6 pole).
14. No Load Motor Vibration not to exceed
    a.Radial 60HZ - 2.03mm/s (2,4 pole) and 1.52mm/s (6 pole)
    b.Axial 60HZ - 1.52mm/s
15. 300 series Stainless Steel hardware
16. Epoxy Coating meeting ASTM B117-97 for 96 h
17. All internal surfaces coated with anti-corrosion coating.
18. Internal Shaft Grounding brush installed on drive end.
19. No Load test report included with motor

ShangHai HIMAK Electrical Machinery CO,. LTD				NEMA TEFC 145TC IEEE-841 UNITS:INCH	
				NO:	CY252.A20.002
Design		Standard		STEP MARK	1:3 SORT Cast iron Motor
Checker		Allow			
Auditing		Date			