



Model Number:	SD3-143T-4-BR-E-1
MFG PN:	717
List Price:	

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

Electrical Data				General Data		
Rated Motor Output Power	1.0	HP		Frame Size	143T	
Rated Motor Speed	1740	r/min 60Hz		Enclosure	TEFC	
	1410	r/min 50Hz		Mounting	Rigid	
Rated Motor Voltage (3 Phase)	460	V/60Hz		NEMA Design	B	
	380	V/50Hz		IP Rating	55	
Rated Motor Current	1.5	A (In) @ 60Hz		Insulation Class	F	
	1.7	A (In) @ 50Hz		Tropicalization	1	
FL Current @ 208V	None	A (In) @ 60Hz		Duty	Cont.	
Service Factor	1.25	@ 60Hz		Cable Entry	None	
	1.25	@ 50Hz		Feet Removable	0	
KVA Code	J	60Hz		Double Drilled	0	
	H	50Hz		Frame Material	Cast	
Nominal Efficiency	85.5	% @ 60Hz		Shaft Material	None	
	83.3	% @ 50Hz		Coating	RAL	7024
Nominal Power Factor	0.75	cosθ @ 60Hz				
Full Load Torque Ft-Lb	S			Mechanical Data		
Load Data	Trq Ft-Lb	Trq %FL	Current Amps	Bearing DE Side	6205Z	
Locked Rotor				Bearing NDE Side	6205Z	
Breakdown	520.1133389	300.0	-	Comp Ring (wavy washer)	DE	
Pull Up	333.7535106	197.0	-	Weight	600.8625	Lbs
Load Data	RPM	Eff %	Current Amps	Moment of Inertia	None	kg.m3
125% of FL	1774.4	93.41	82.79	Site Conditions		
75% of FL	1785.5	94.29	52.63	Temp Rise @ Full Load °C	None	@ 60Hz
50% of FL	1790.5	93.78	40.19	Ambient Temperature °C	40	
No Load	1199.0	0	26.53	Altitude Above Sea Level (M)	1000	
Brake Torque (N-M)	100.0	Loaded Torque Curves		None		
Brake Coil Voltage	None	P1 = Output Power (KW), S = Slip (% of Sync RPM), η = Efficiency (%), cosφ = Power Factor				

<b>CT VFD Range</b>	
Haz Loc Rating	
Options:	
<b>UL File Number</b>	
<b>CSA File Number</b>	
<b>DOE File Number</b>	
<b>CE APPROVAL</b>	
<b>Wiring Diagram</b>	<b>NEMA-3-6-D</b>

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



<b>Model Number:</b>	SD3-143T-4-BR-E-1
<b>MFG PN:</b>	
<b>List Price:</b>	717

Dimensional Drawing (For Reference Only)

841-143T1U4B

**NOTES:**

- All Cast Iron Construction
- Design B
- IP55 Labyrinth seals on DE and DDE
- H Class Insulation System
- Max Winding Temperature rise 80°C
- Max bearing temperature rise 45°C for 4 pole and 50°C for 2 pole motors when direct coupled.
- Regreasable bearings
- External Grounding provisions
- Maximum Foot flatness deviation .127 mm
- Conductive Polymer Cooling Fan
- Diagonally Split Conduit Box rotatable in 90° Increments
- Lead seals in conduit box
- 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).
- 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
- 300 series Stainless Steel hardware
- Epoxy Coating meeting ASTM B117-97 for 96 h
- All internal surfaces coated with anti-corrosion coating.
- Internal Shaft Grounding brush installed on drive end.
- No Load test report included with motor

Front View Dimensions: 5.62, 5.02, 7.122, 4X0.34, 3.5, 1.46, 2.75, 0.53, 5.5, 7, 3/4-14 NPSC

Side View Dimensions: 4.76, 1.87, 1.41min, 4.0, 2.25, 2.25, 5.12, 13.32, 7.244

<b>TECHTOP IEEC 841 SEVERE DUTY ELECTRIC MOTOR</b>																																							
MODEL   SD3-143T-4-BR-E-1	TECHTOP.COM																																						
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<b>TECHTOP</b>		NEMA TEFC 143T-1HP-4P IEEC-841 UNITS:INCH	
ShangHai HIMAK Electrical Machinery CO., LTD		NO: CY252.A20.003	
Design	yang	Standard	
Checker	2019.05.23	Allow	
Auditing		Date	

<b>CONNECTIONS</b>	
T1	T2
T3	

Components			
Item	Model	Description	List Price
C-Face Kit			
D-Flange Kit			
DE Endplate Kit			
NDE Endplate Kit			
Junction Box			
Cooling Fan Cover			
Cooling Fan			
Replacement Feet			
DE Bearing Retainer Kit			
NDE Bearing Retainer Kit			

