



Model Number:	SD3-284T-4-BR-E-25
MFG PN:	3763
List Price:	

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

Electrical Data				General Data		
Rated Motor Output Power	25.0	HP		Frame Size	284T	
Rated Motor Speed	1770	r/min 60Hz		Enclosure	TEFC	
	1450	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	30.5	A (In) @ 60Hz		Insulation Class	F	
	37	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	G	60Hz		Double Drilled	0	
	D	50Hz		Frame Material	Cast	
Nominal Efficiency	93.6	% @ 60Hz		Shaft Material	None	
	90.6	% @ 50Hz		Coating	RAL	7024
Nominal Power Factor	0.82	cosθ @ 60Hz				
Full Load Torque Ft-Lb	S			Mechanical Data		
Load Data	Trq Ft-Lb	Trq %FL	Current Amps	Bearing DE Side	6311	
Locked Rotor				Bearing NDE Side	6311	
Breakdown	520.1133389	220.0	-	Comp Ring (wavey 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



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Dimensional Drawing (For Reference Only)

841-284T25U4B

**NOTES:**

- All Cast Iron Construction
- Design B
- IP55 Labyrinth seals on DE and ODE
- 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
  - Radial 60HZ - 2.03mm/s (2,4 pole) and 1.52mm/s (6 pole)
  - 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

TECHTOP IEEE 841 SEVERE DUTY ELECTRIC MOTOR	
MODEL: SD3-284T-4-BR-E-25	TECHTOP.COM
NEMA 3078	50 Hz
HP 25	1450
RPM 1770	DATE: 06/28/2027
VOLTS 480	DESIGN: B
FLA 30.5	FRAME: 284T
SF 1.25	ENCL: TEFC
KVA CODE G	IP: 55
NOM EFF: 0.936	DUTY: Cont.
INS CL: H	AMB °C: 40
WEIGHT: 355.1 lbs	MADE IN CHINA

**CONNECTIONS**

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			

<b>TECHTOP</b> ShangHai HIMAK Electrical Machinery CO., LTD		NEMA TEFC 284T-25HP-4P IEEE-841 UNITS:INCH	
Design	Standard	NO:	CY256.A20.002
Checker	Allow	STEP MARK	1:4.5 SORT Cast iron Motor
Auditing	Date		

