

**DATA SHEET**

**Three Phase Induction Motor-Squirrel Cage**



Cusrtomer

Product line:

Product code:

Frame	:	284TC	Cooling method	:	TEFC
Insulation class	:	F	Mounting	:	F-1
Duty cycle	:	Cont.(S1)	Ratation	:	Both(CW and CCW )
Ambient temperature	:	-15°C to +40°C	Starting Method	:	Direct On Line
Altitude	:	1000m.a.s.l.	Approx. weight(lb)	:	
Design	:	B	Momet of inertia(J)	:	

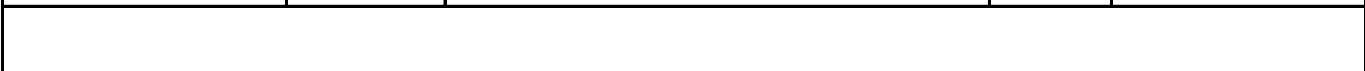
Output [HP]	25		
Poles	4		
Frequency [Hz]	60		
Rated voltage [V]	230/460		
Rated current [A]	58.16/29.08		
L.R. Amperes [A]	365/182.5		
LRC [A]	6.5		
No load current [A]	10.5		
Rated speed [RPM]	1770		
Slip [%]	1.67		
Rated torque [ft.lb]	74.3		
Locked rotor torque [%]	170		
Breakdown torque [%]	220		
Service factor	1		
Temperature rise	≤80K		
Locked rotor time	≤8s		
Noise level			
Efficiency	25%	87.6	
	50%	92.47	
	75%	93.44	
	100%	93.6	
Power Factor	25%	0.59	
	50%	0.8	
	75%	0.86	
	100%	0.86	

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6310	6310
Sealing	Without	Without
	Bearing Seal	Bearing Seal
Lubrication interval	0h	0h
Lubricant amount	0g	0g
Lubricant type	None	

**Notes**

This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measure at 1m and with tolerance of +3dB(A) (3) Approximate weight subject to changes after manufacturing process. (4)At 100% of full load.	These are average values based on tests with power supply, subject to the tolerance stipulated in NEMA MG-1
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Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	2024.02.17			



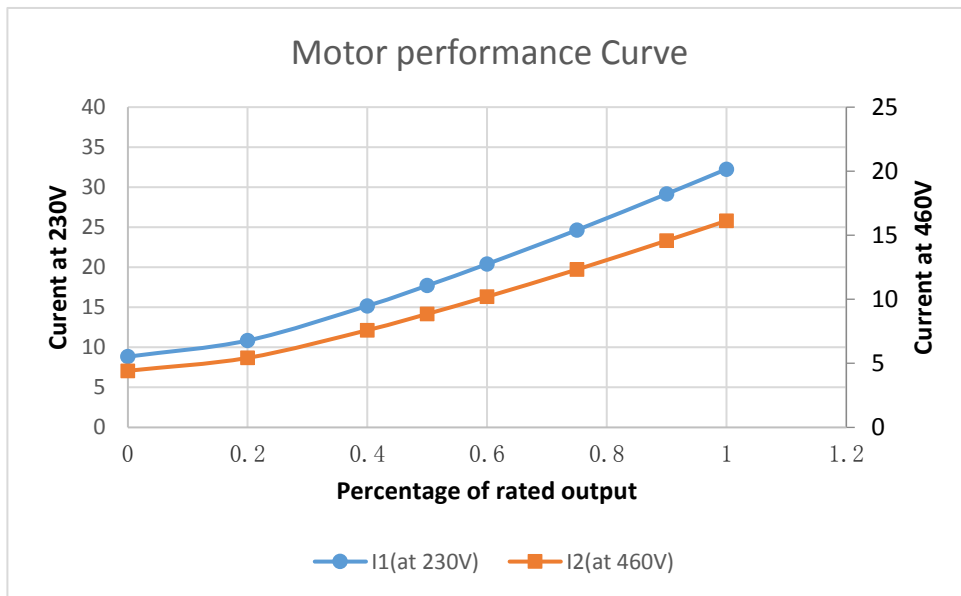
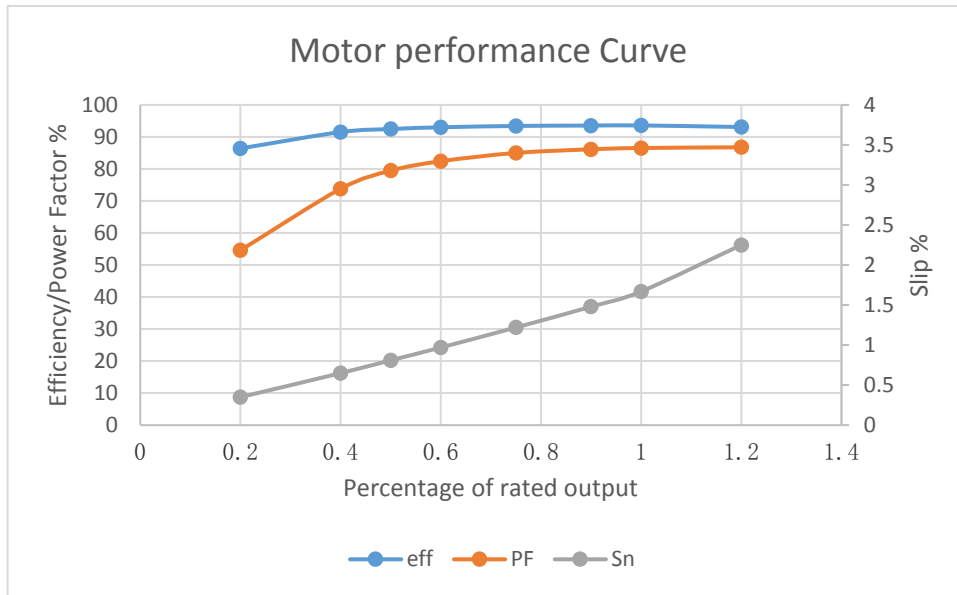
**LOAD PERFORMANCE CURVE**  
**Three Phase Induction Motor-Squirrel Cage**



Cusrtomer

Product line:

Product code:



<b>Permane</b>	:	230/460V 60Hz		
Rated Current(A)	:	58.16/29.08	Moment of inertia(J)	:
LRC	:	6.5	Duty cycle	:
Rated Torque(lb-ft)	:	74.3	Insulation class	:
Locked rotor torque%	:	170	Service factor	:
Breakdown torque%	:	220	Temperature rise	:
Rated speed (r/min)	:	1770	Design	:
				:

This revision replaces and cancel the previous one, which must be eliminated.

These are average values based on tests with power supply, subject to the tolerance stipulated in NEMA

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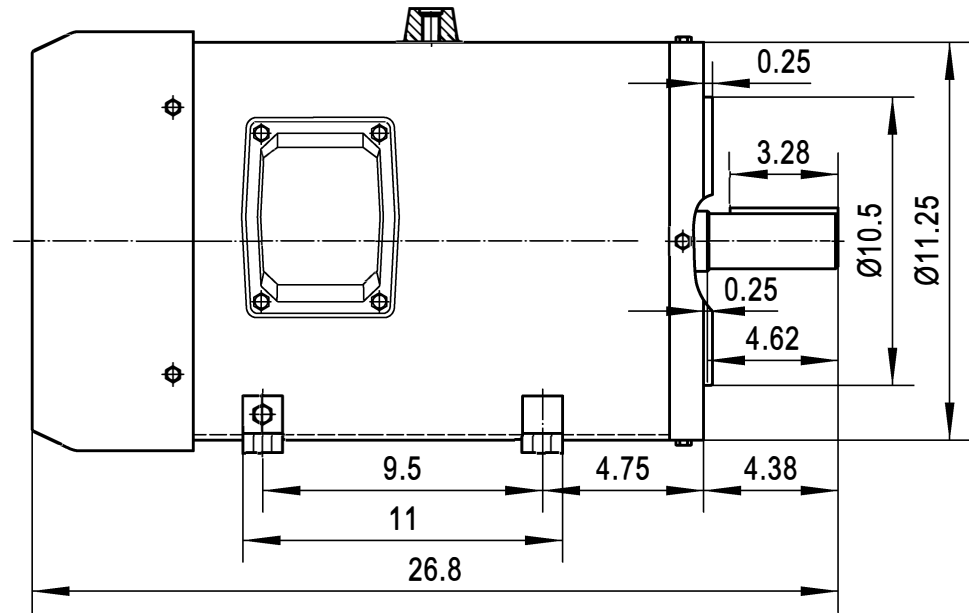
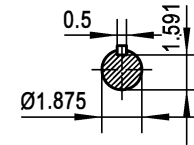
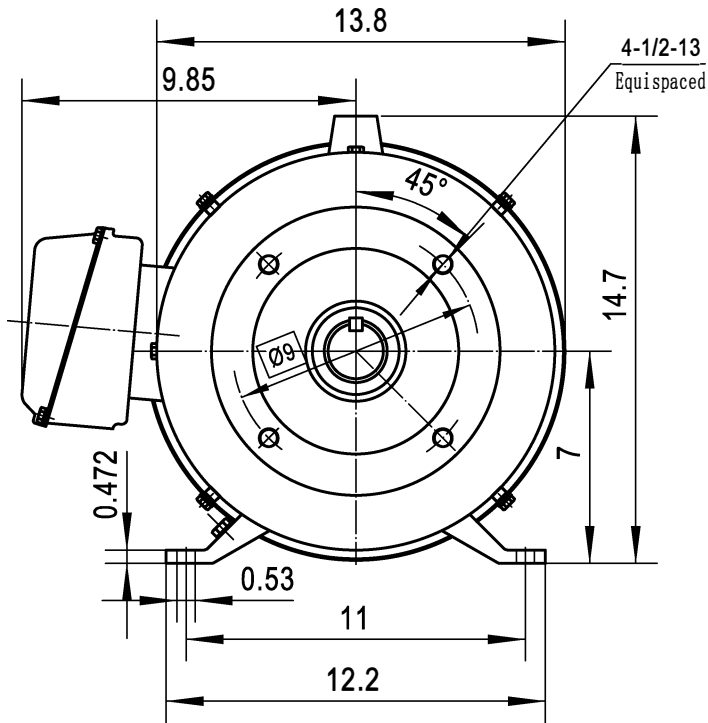


### Nameplate Specification

Model	:284TC-4	Frame	:284TC
Enclosure	:TE FC	Output HP	:25
Protection	:IP55	Phase	:3
Duty	:Continuous	Volts	:230/460V
Insulation Class	:G	NEMA DESIGN	:B
Rated Current	:58.16/29.08A	Service Factor	:1.0
Max ambient	:40°C	Speed	:1770
Code	:G	DE Bearing	:6310
Connection	:2 $\Delta$ / $\Delta$	ODE Bearing	:6310
Power Factor	:0.86	Frequency	:60Hz
Nominal Efficiency	:93.6%	CSA	:Y
Min. Efficiency	:92.4%		

### Technical Specification

Electrical Type	:Squirrel cage induction run	Starting Method	:Direct on line
Poles	:4	Rotation	:CW or CCW
Resistance	:0.38 $\Omega$	Mounting	:Rigid Base
Motor Orientation	:Horizontal	Drive end Bearing	:Ball 6310
ODE Bearing	:Ball 6310	Frame Material	:Steel
C-face Diameter	:11.25 inch	Overall Length	:26.8 inch
Shaft Extension	:4.62 inch	Shaft Diameter	:1.875 inch
Shaft Extension Mate	:45# steel	Bearing Grease type	:2# Lithium Grease



Dimensions in inches

Type	Power (HP)	Rated voltage		Frequency	Speed (r/min)	Eff (%)	Power Factor cos $\phi$	Conn.
		230V	460 V					
284TC-4	25	58.16A	29.08 A	60	1770	93.6	0.86	2 $\Delta$ / $\Delta$

Frame	Cable Entry Size (inch)	Threaded cap Size (inch)
56-140	Ø1.00	Ø0.96
140-210	Ø1.18	Ø1.14
250	Ø1.44	Ø1.4
280	Ø1.77	Ø1.7

Borrowing (General) Parts Registration  
 General Number of Old Base Map  
 Base figure total number  
 Sign  
 Date  
 filer date

sign	Change File Name	Sign	Date				284TC-4 (F. TEFC)
Design	Standardization	Pattern marking	Weight	Proportion			
Check	Verification			1:4			
To examine	Approval	common	Zhang	The first	Zhang		
Technology	Date						