DATA SHEET
Three Phase Induction Motor-Squirrel Cage

Cusrtomer					
Product line:			Product code:		
Frame	:	286TC	Cooling method	:	TEFC
Insulation class	:	F	Mounting	:	F-1
Duty cycle	:	Cont.(S1)	Ratation	:	Both(CW and CCW)
Ambient temperature	:	-15℃ to +40℃	Starting Method	:	Direct On Line
Altitude	:	1000m.a.s.l.	Approx. weight(lb)	:	
Design	:	B	Momet of inertia(J)	:	

Output [HP]	30			
Poles	4			
Frequency [Hz]	60			
Rated voltage [V]	230/460			
Rated current [A]	69.79/34.9			
L.R. Amperes [A]	435/217.5			
LRC [A]	6.5			
No load current [A]	12			
Rated speed [RPM]	1770			
Slip [%]	1.67			
Rated torque [ft.lb]	89.11			
Locked rotor torque [%]	170			
Breakdown torque [%]	220			
Service factor	1			
Temperature rise	≤80K			
Locked rotor time	≤8s			
Noise level				
Efficiency	25%	89.33		
	50%	93.15		
	75%	93.78		
	100%	93.6		
Power Factor	25%	0.59		
	50%	0.79		
	75%	0.85		
	100%	0.86		

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

Notes

This revision replacesandcancel theprevious 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

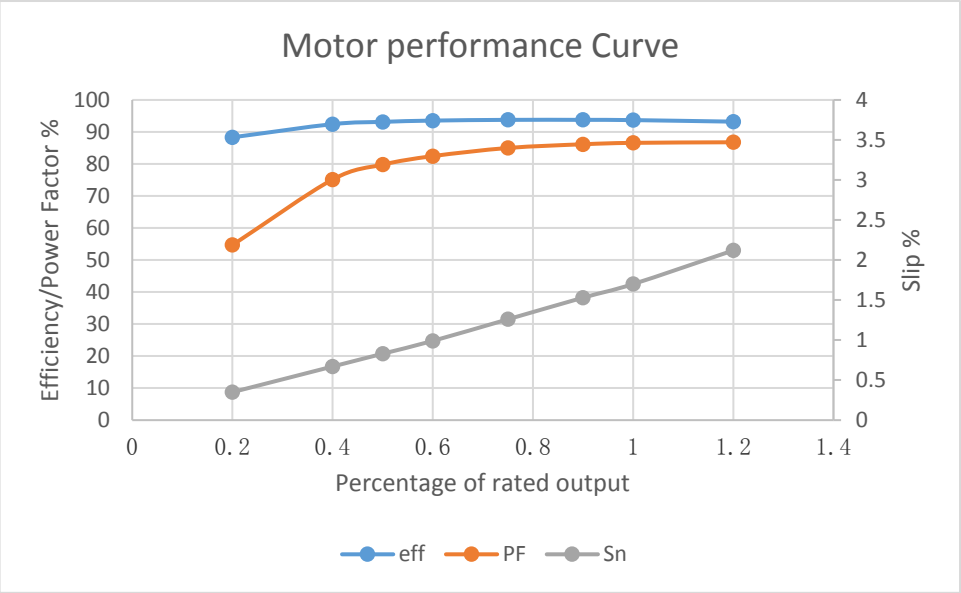
Rev.	Changes Summary	Performed	Checked	Date

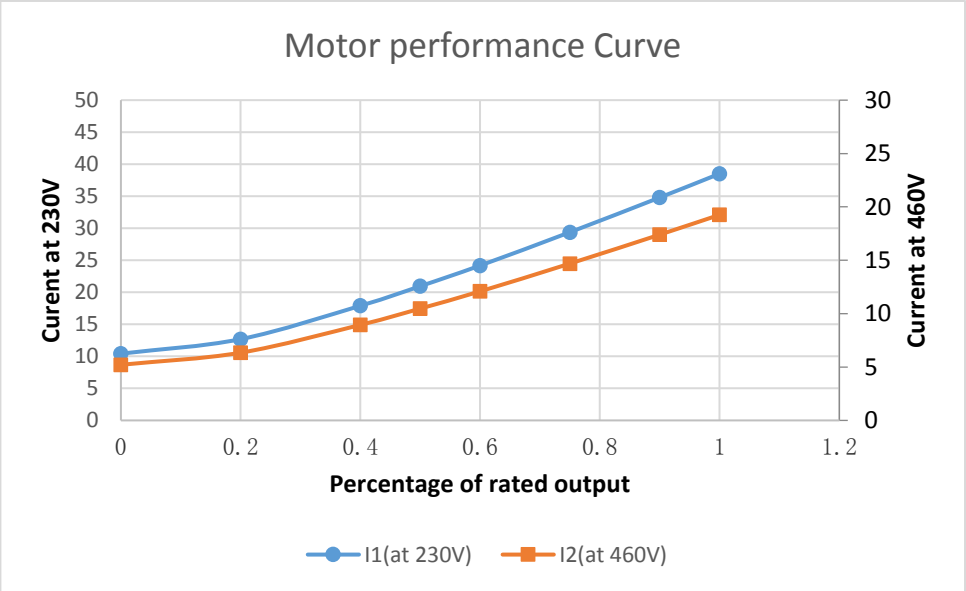
Performed by			
Checked by		Page	Revision
Date	2024.02.17		

LOAD PERFORMANCE CURVE
Three Phase Induction Motor-Squirrel Cage

Cusrtomer

Product line: Product code:





Permance	:	230/460V 60Hz			
Rated Current(A)	:	69.79/34.9	Moment of inertia(J)	:	
LRC	:	6.5	Duty cycle	:	S1
Rated Torque(lb-ft)	:	89.11	Insulation class	:	F
Locked rotor torque%	:	170	Service factor	:	1
Breakdown torque%	:	220	Temperature rise	:	80K
Rated speed (r/min)	:	1770	Design	:	B

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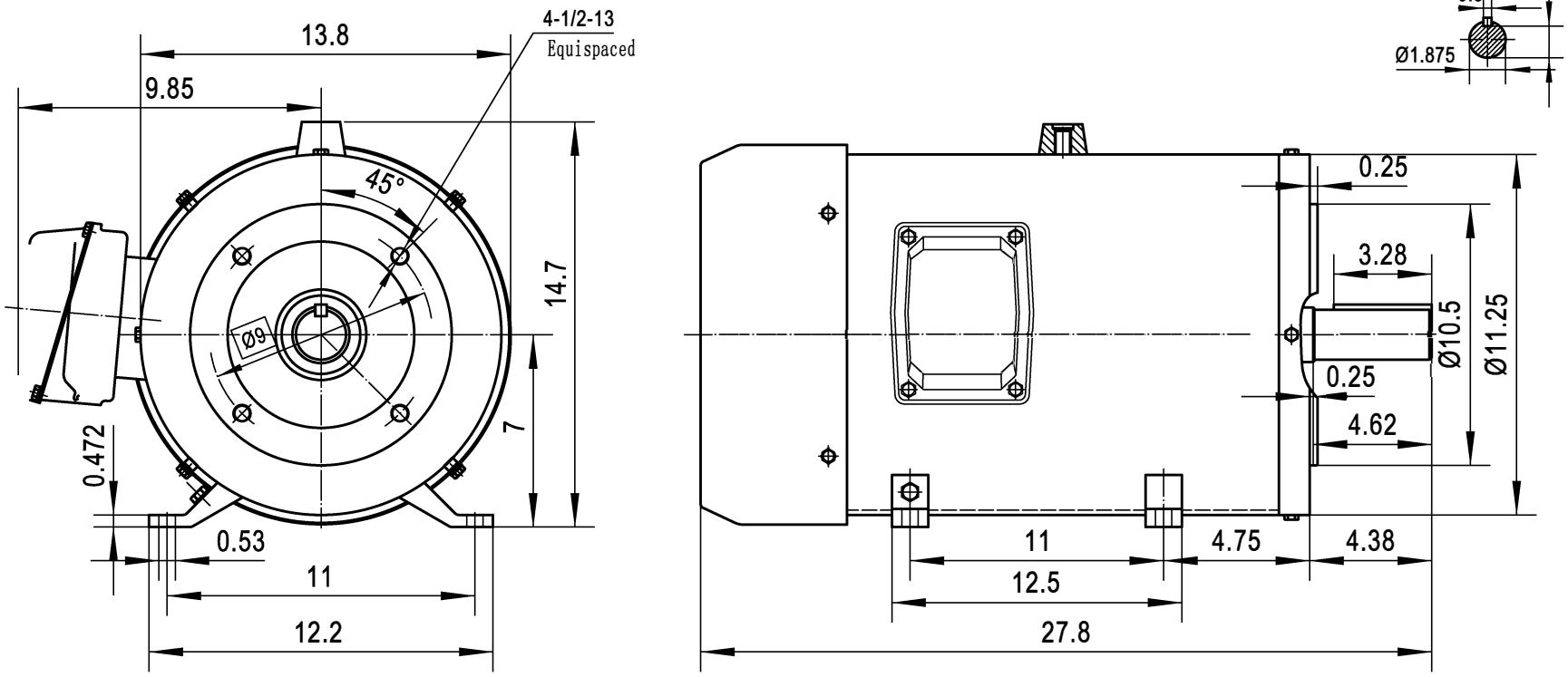
Nameplate Specification

Model	:286TC-4	Frame	:286TC
Enclosure	:TEFC	Output HP	:30
Protection	:IP55	Phase	:3
Duty	:Continuous	Volts	:230/460V
Insulation Class	:G	NEMA DESIGN	:B
Rated Current	:69.79/34.9A	Service Factor	:1.0
Max ambient	:40℃	Speed	:1770
Code	:G	DE Bearing	:6310
Connection	:2△/△	ODE Bearing	:6310
Power Factor	:0.86	Frequency	:60Hz
Nominal Efficiency	:93.6%	CSA	:Y
Min. Efficiency	:92.4%		

Techinial Specification

Electrical Type	:Squirrel cage induction run	Starting Method	:Direct on line
Poles	:4	Rotation	:CW or CCW
Resistance	:0.32Ω	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	:27.8 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 cosø	Conn.
		230V	460 V					
		Current						
286TC-4	30	69.79A	34.9 A	60	1770	93.6	0.86	2Δ/Δ

Frame	Cable Entry Size (inch)	Threaded cap Size (inch)
NS56-140	ø1.00	ø0.96
NS140-210	ø1.18	ø1.14
NS250	ø1.44	ø1.4
NS280	ø1.77	ø1.7

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

sign	Place numb	Change File Name	Sign	Date
Design			Standardization	
Check			Verification	
To examine			Approval	
Technology			Date	

Pattern marking	Weight	Proportion
		1:4
common Zhang	The first	Zhang

286TC-4
(F.TEFC)