

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET	ISSUED	01/15/2026
		MODEL	2HP 4P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
2	1.5	1750	230/460	60	145TD	TEFC	1.25	F	CONT.	40°C
TEMP. RISE	NEMA DESIGN	kVA CODE	Class/Division Hazardous Location							
B	B	K	Class I, Division 2, Group B, C & D							

TYPICAL PERFORMANCE DATA						
EFFICIENCY (%)				POWER FACTOR (%)		
FULL LOAD		3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD
MIN.	NOM.					
84.0	86.5	86.6	84.9	75	67.1	54.2

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
5.8/2.9	4.8/2.4	4.1/2.0	2.8/1.4	42.9/21.5	740

* Usable at 208V: 6.1 AMPS (FULL LOAD)

* Usable at 2HP 50Hz 380V 3.4A 1425R.P.M. S.F. 1.0 EFF. 83.5% (IE2)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
6	235	270	204	2	1

MECHANICAL DATA					
INERTIA			SOUND PRESSURE LEVEL @ 3 ft (dB(A))	PROTECTION GRADE	WEIGHT (Lbs)
ROTOR WR ² (lb-ft ²)	NEMA LOAD WK ² (lb-ft ²)	MAX ALLOWABLE WK ² (lb-ft ²)			
0.148	11	27	67	55	70

BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6205ZZ	6204ZZ	N/A	RIGID MOUNTING	NEMA

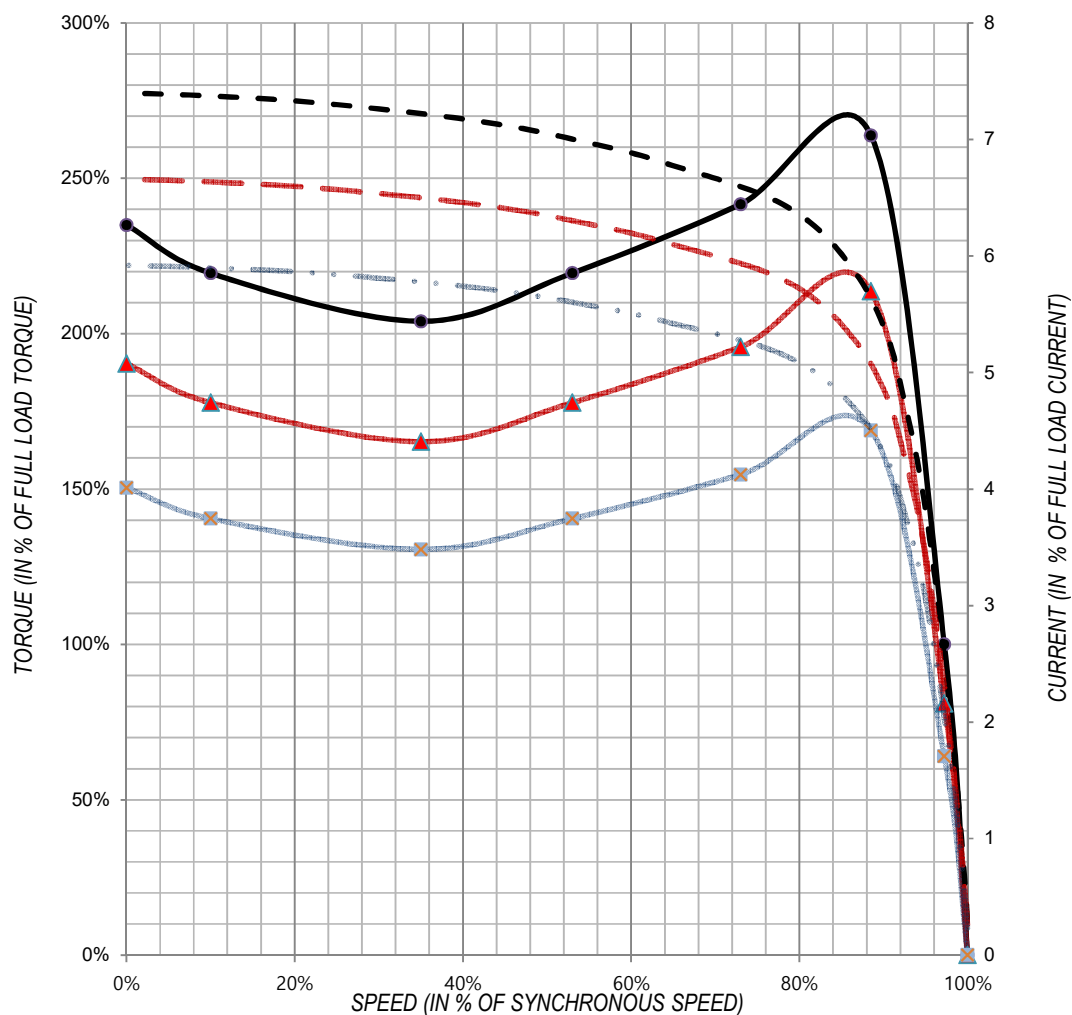
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0003~2	90~1800	0.015~6	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	0.2~2	180~1800	6	
CONSTANT HP	60~90	2	1800~2700	6~4	

DRAWING NO.	ES1AS185702	REVISION	2.1
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ALL DATA ABOVE ARE SUBJECTED TO CHANGE WITHOUT NOTICE.

HICO 3 PHASE INDUCTION MOTOR	SPEED - TORQUE & CURRENT CURVE		Curve No.	
			1ST	

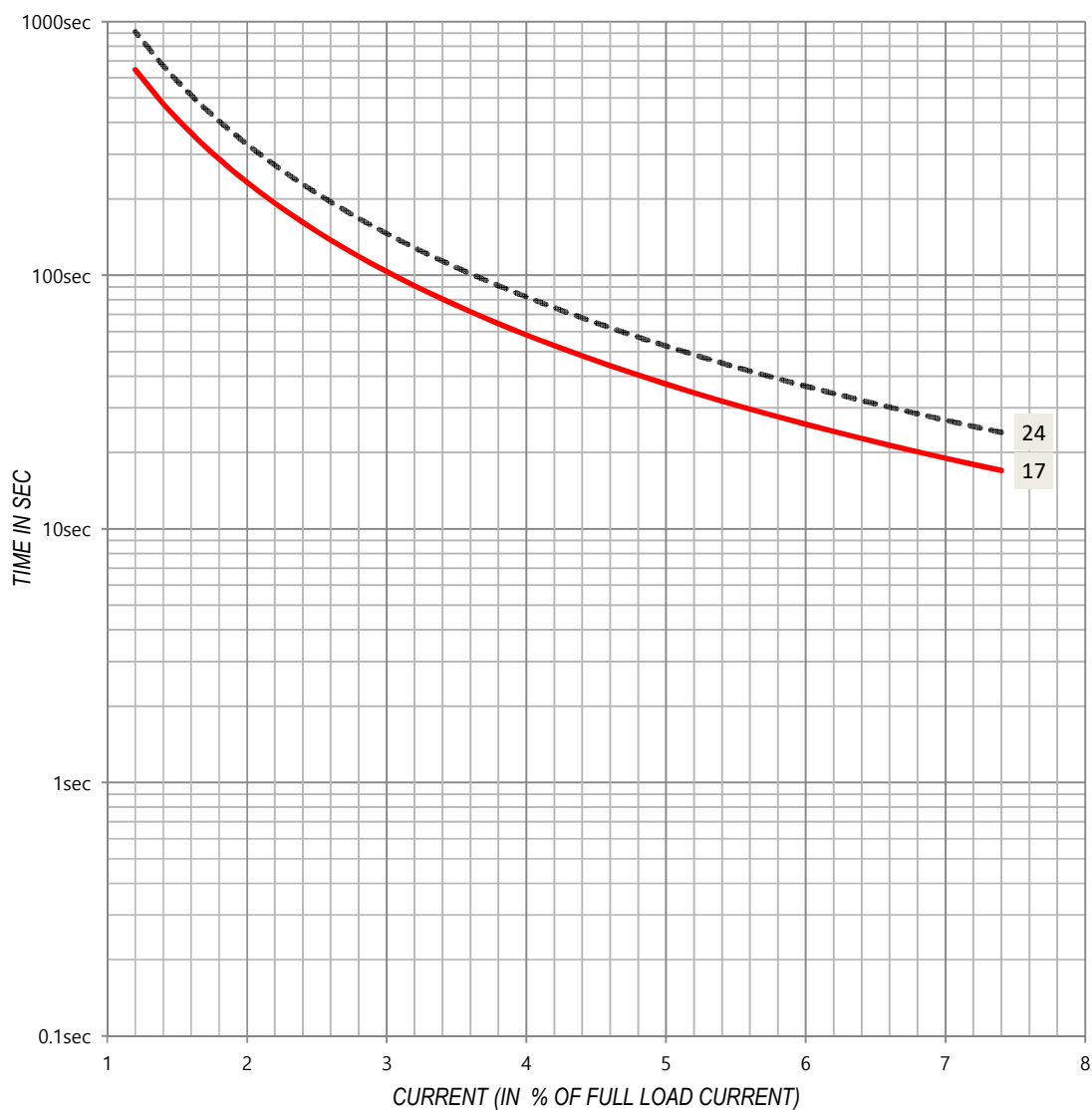
OUTPUT	2	HP	POLES	4	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	6.0	lb-ft	FULL LOAD CURRENT	5.8/2.9	A
LOCKED ROTOR TORQUE	235	%	LOCKED-ROTOR CURRENT	740	%
BREAKDOWN TORQUE	270	%	SPEED (at FULL LOAD)	1750	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.148	lb-ft ²



NOTE		A : SPEED-TORQUE CURVE AT	100% RATED VOLTAGE
		B : SPEED-TORQUE CURVE AT	90% RATED VOLTAGE
		C : SPEED-TORQUE CURVE AT	80% RATED VOLTAGE
		D : SPEED-CURRENT CURVE AT	100% RATED VOLTAGE
		E : SPEED-CURRENT CURVE AT	90% RATED VOLTAGE
		F : SPEED-CURRENT CURVE AT	80% RATED VOLTAGE

HICO 3 PHASE INDUCTION MOTOR	THERMAL LIMIT & TIME - CURRENT CURVE				Curve No.
					1TL

OUTPUT	2	HP	POLES	4	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	6.0	lb-ft	FULL LOAD CURRENT	5.8/2.9	A
LOCKED ROTOR TORQUE	235	%	LOCKED-ROTOR CURRENT	740	%
BREAKDOWN TORQUE	270	%	SPEED (at FULL LOAD)	1750	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.148	lb-ft ²

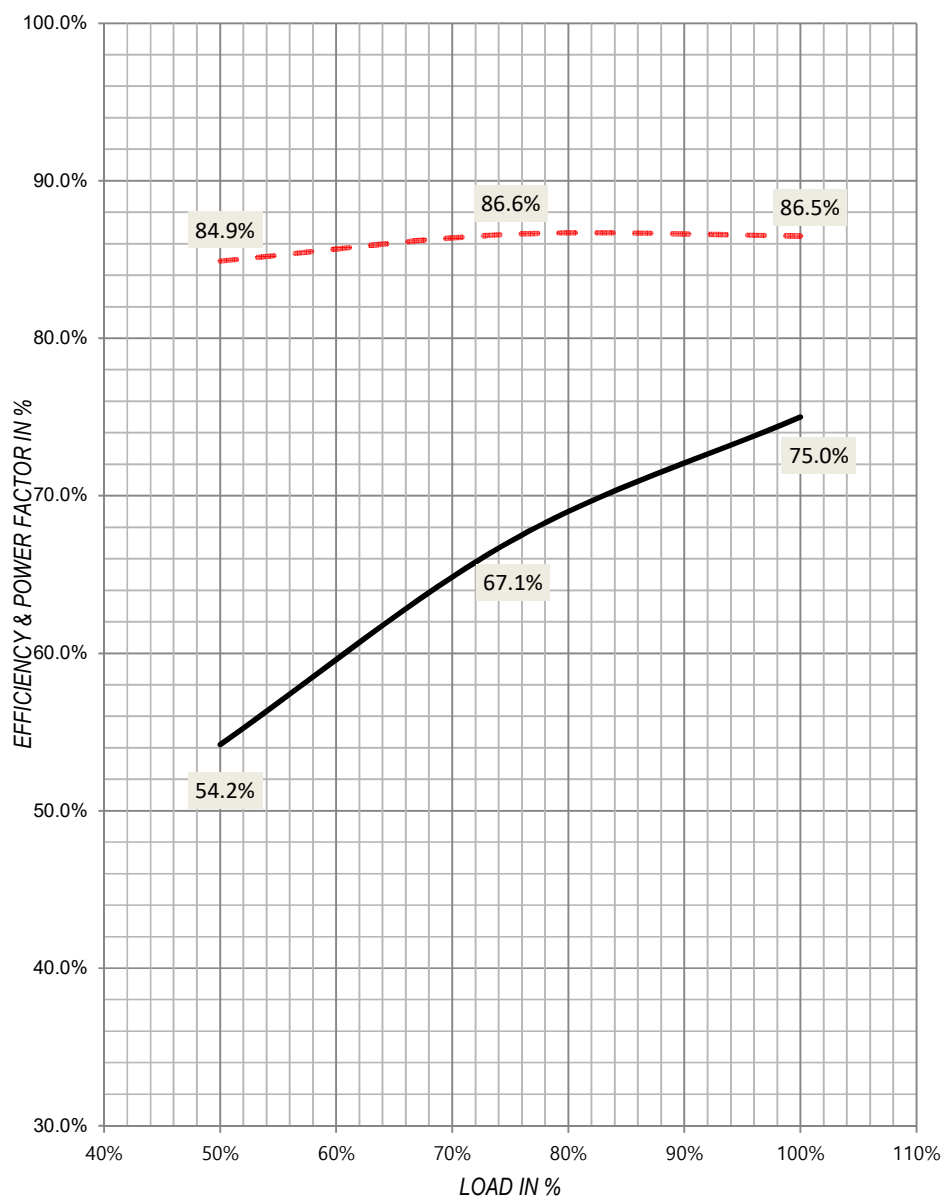


NOTE

- A : THERMAL LIMIT CURVE AT HOT CONDITION
- B : THERMAL LIMIT CURVE AT COLD CONDITION
- - - C : ※TIME-CURRENT CURVES(C,D,E) NEED BELOW DATA TO BE DRAWN
- ~~~~~ D : * LOAD GD2 AT MOTOR SHAFT
- ~~~~~ E : * SPEED-TORQUE CURVE OF LOAD

HICO 3 PHASE INDUCTION MOTOR	LOAD - POWER FACTOR & EFFICIENCY CURVE				Curve No.
					1PE

OUTPUT	2	HP	POLES	4	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	6.0	lb-ft	FULL LOAD CURRENT	5.8/2.9	A
LOCKED ROTOR TORQUE	235	%	LOCKED-ROTOR CURRENT	740	%
BREAKDOWN TORQUE	270	%	SPEED (at FULL LOAD)	1750	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.148	lb-ft ²



NOTE

— A : LOAD - POWER FACTOR CURVE
- - - B : LOAD - EFFICIENCY CURVE

HICO

3 PHASE INDUCTION MOTOR

CONNECTION DIAGRAM

ISSUED

12/01/2024



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