

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET		ISSUED	01/15/2026
			MODEL	2HP 6P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
2	1.5	1175	575	60	184TC	TEFC	1.25	F	CONT.	40°C
TEMP. RISE	NEMA DESIGN	kVA CODE	Class/Division Hazardous Location							
B	B	G	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.					
86.5	88.5	88.6	87.3	77	69.4	56.7

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
2.2	1.8	1.5	0.9	12.1	550

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
8.9	165	240	130	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)			
0.611	30	76	67	55	108

BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6207ZZ	6206ZZ	N/A	RIGID MOUNTING	NEMA

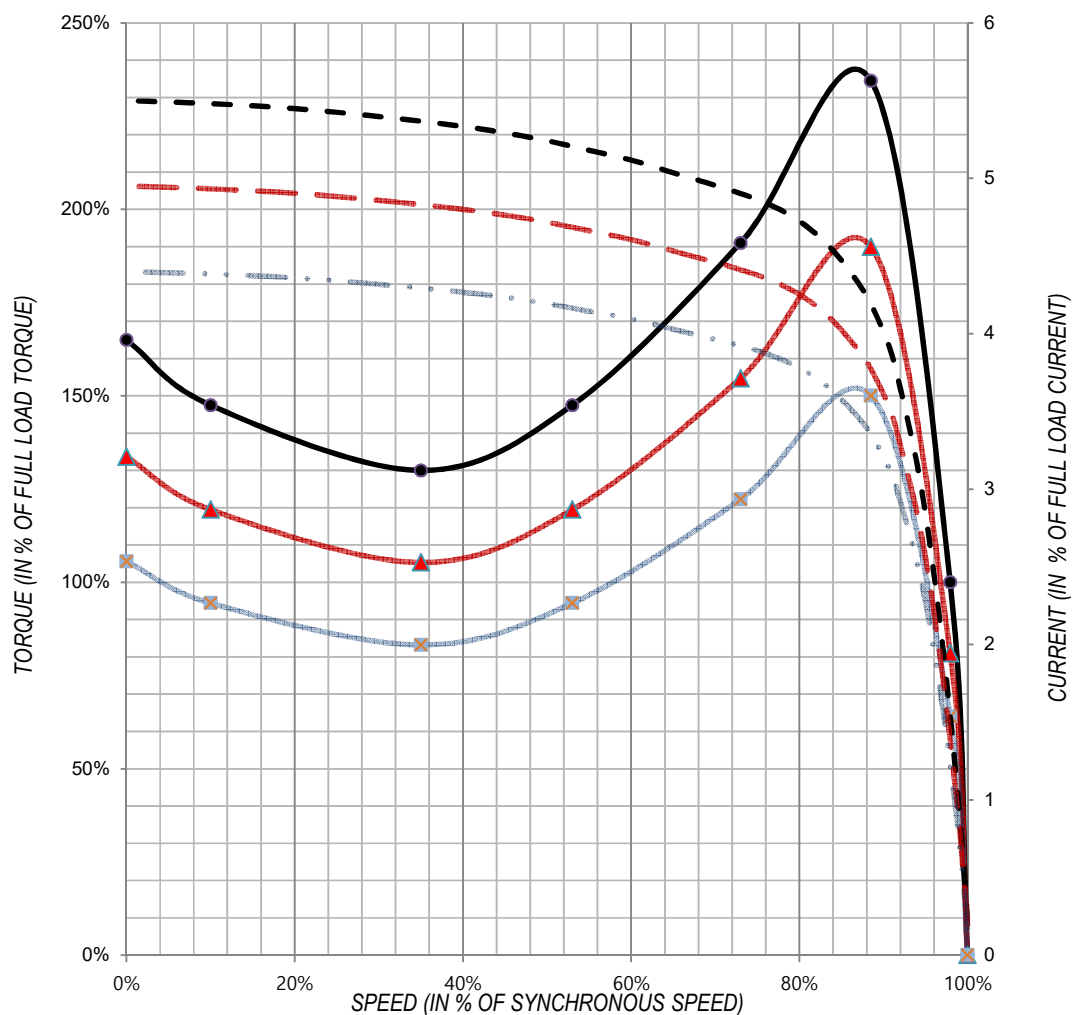
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0003~2	60~1200	0.022~8.9	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	0.2~2	120~1200	8.9	
CONSTANT HP	60~90	2	1200~1800	8.9~5.933	

DRAWING NO.	ES1AS180504	REVISION	0.1
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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	6	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	8.9	lb-ft	FULL LOAD CURRENT	2.2	A
LOCKED ROTOR TORQUE	165	%	LOCKED-ROTOR CURRENT	550	%
BREAKDOWN TORQUE	240	%	SPEED (at FULL LOAD)	1175	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.611	lb-ft ²

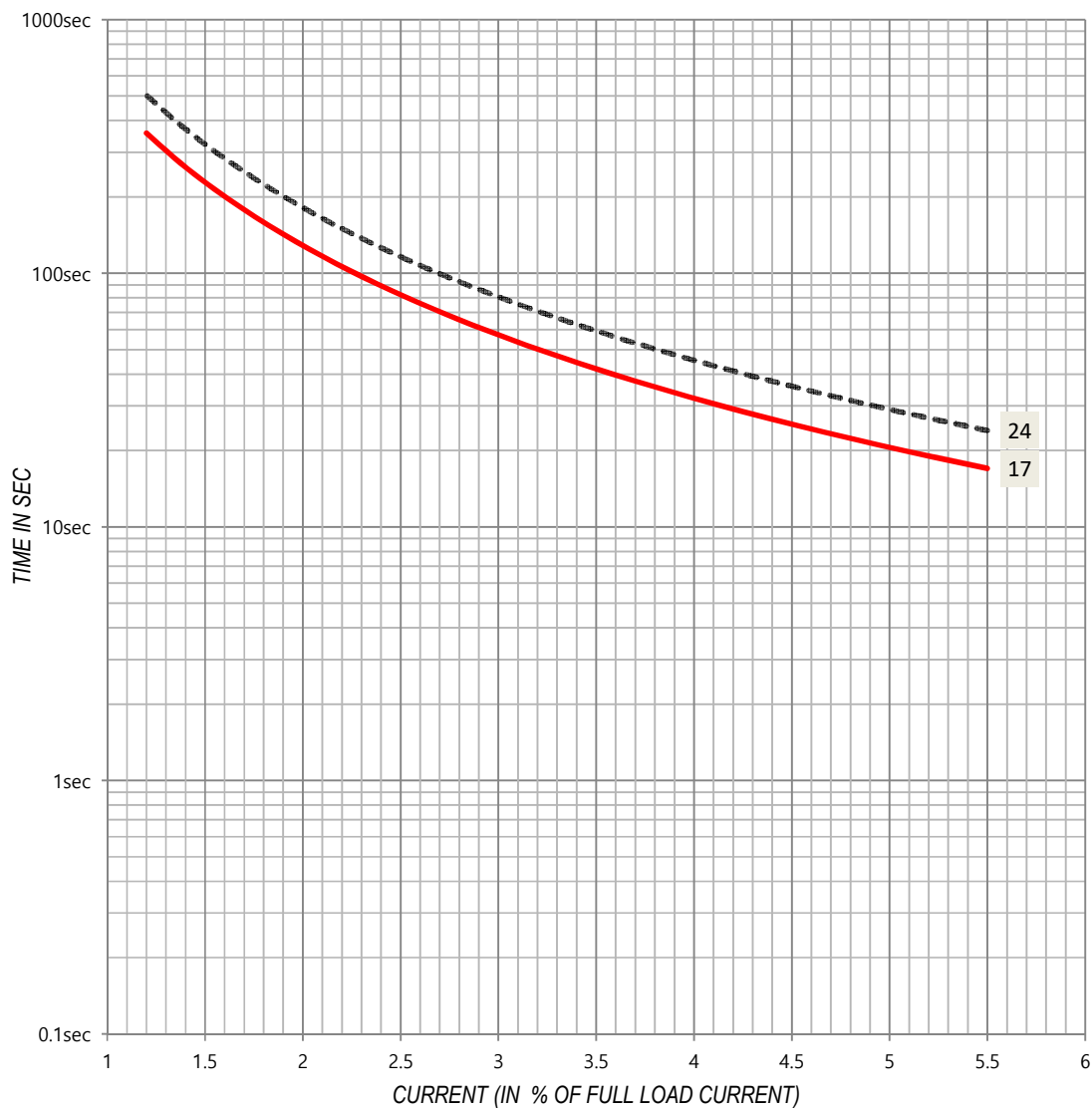


NOTE

- 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

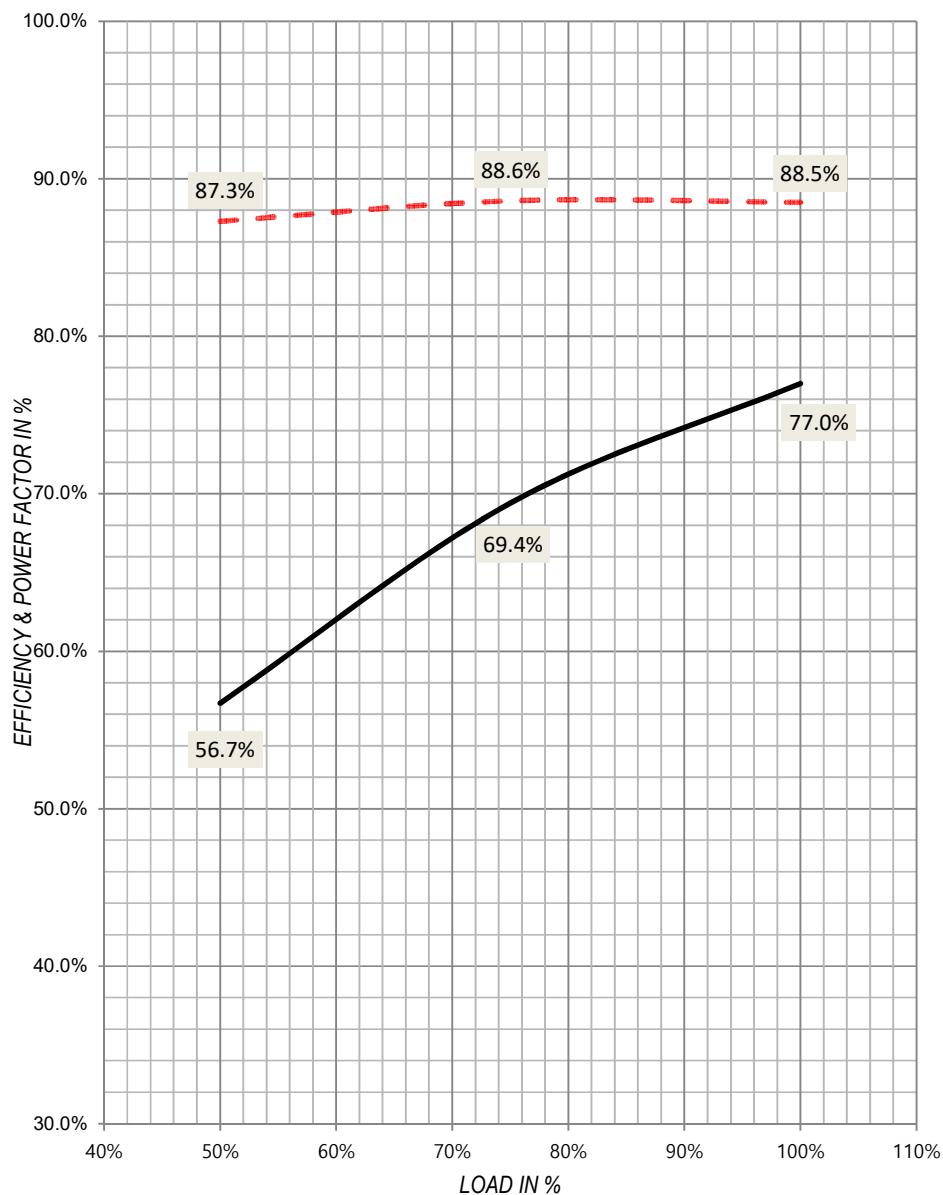
OUTPUT	2	HP	POLES	6	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	8.9	lb-ft	FULL LOAD CURRENT	2.2	A
LOCKED ROTOR TORQUE	165	%	LOCKED-ROTOR CURRENT	550	%
BREAKDOWN TORQUE	240	%	SPEED (at FULL LOAD)	1175	RPM
GD ² of LOAD :	-	lb·ft ²	GD ² of MOTOR	0.611	lb·ft ²



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	6	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	8.9	lb-ft	FULL LOAD CURRENT	2.2	A
LOCKED ROTOR TORQUE	165	%	LOCKED-ROTOR CURRENT	550	%
BREAKDOWN TORQUE	240	%	SPEED (at FULL LOAD)	1175	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.611	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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