

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET	ISSUED	01/15/2026
		MODEL	1HP 2P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
1	0.75	3460	230/460	60	143TD	TEFC	1.25	F	CONT.	40°C
TEMP. RISE	NEMA DESIGN	kVA CODE	Class/Division Hazardous Location							
B	B	L	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.					
74.0	77	76.9	74.6	88.7	84.9	76

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
2.7/1.4	2.2/1.1	1.7/0.8	1.0/0.5	24.3/12.6	900

* Usable at 208V: 3 AMPS (FULL LOAD)

* Usable at 1HP 50Hz 380V 1.7A 2815R.P.M. S.F. 1.0 EFF. 73.9% (IE1)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
1.5	340	390	307	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)			
0.053	1	3	67	55	59

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

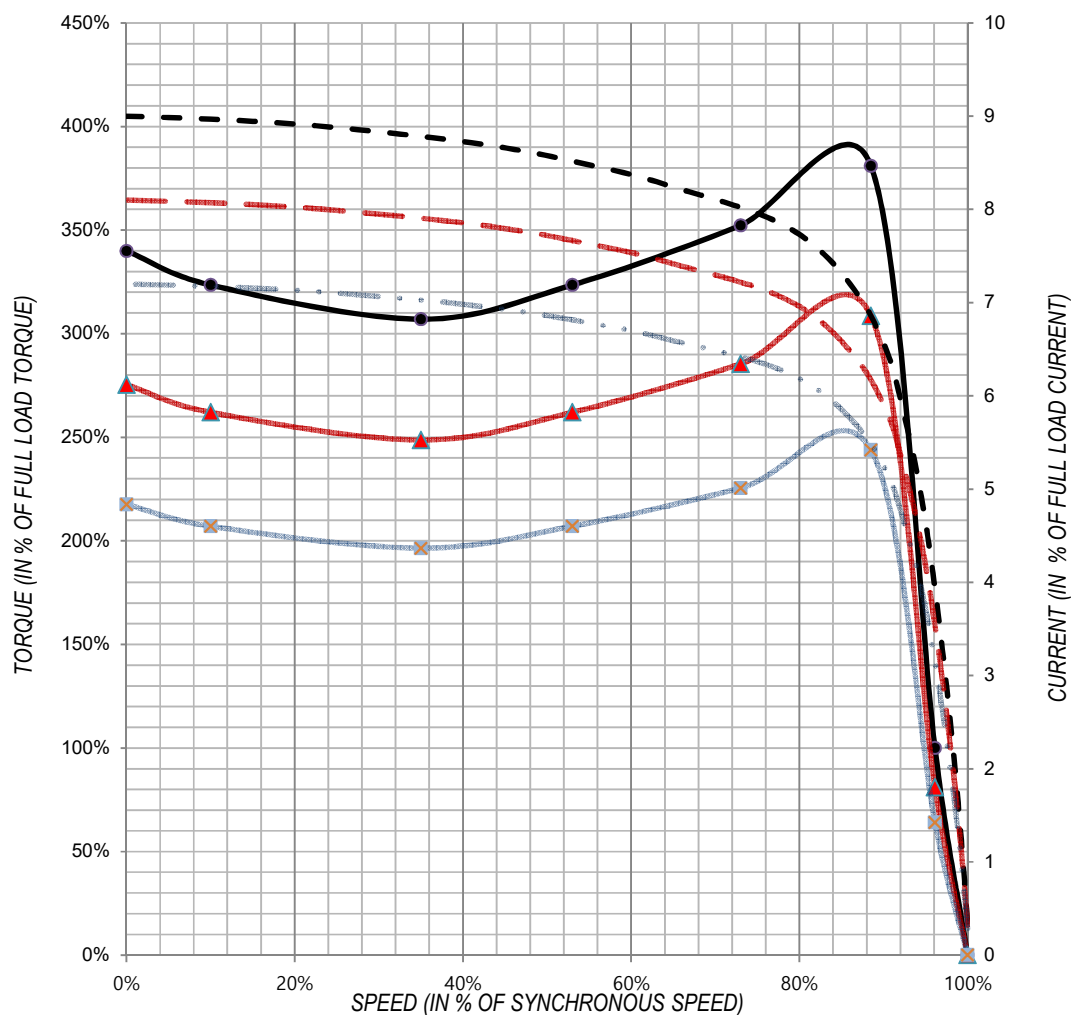
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0001~1	180~3600	0.004~1.5	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	0.1~1	360~3600	1.5	
CONSTANT HP	60~90	1	3600~5400	1.5~1	

DRAWING NO.	ES1AS185701	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	1	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	1.5	lb-ft	FULL LOAD CURRENT	2.7/1.4	A
LOCKED ROTOR TORQUE	340	%	LOCKED-ROTOR CURRENT	900	%
BREAKDOWN TORQUE	390	%	SPEED (at FULL LOAD)	3460	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.053	lb-ft ²

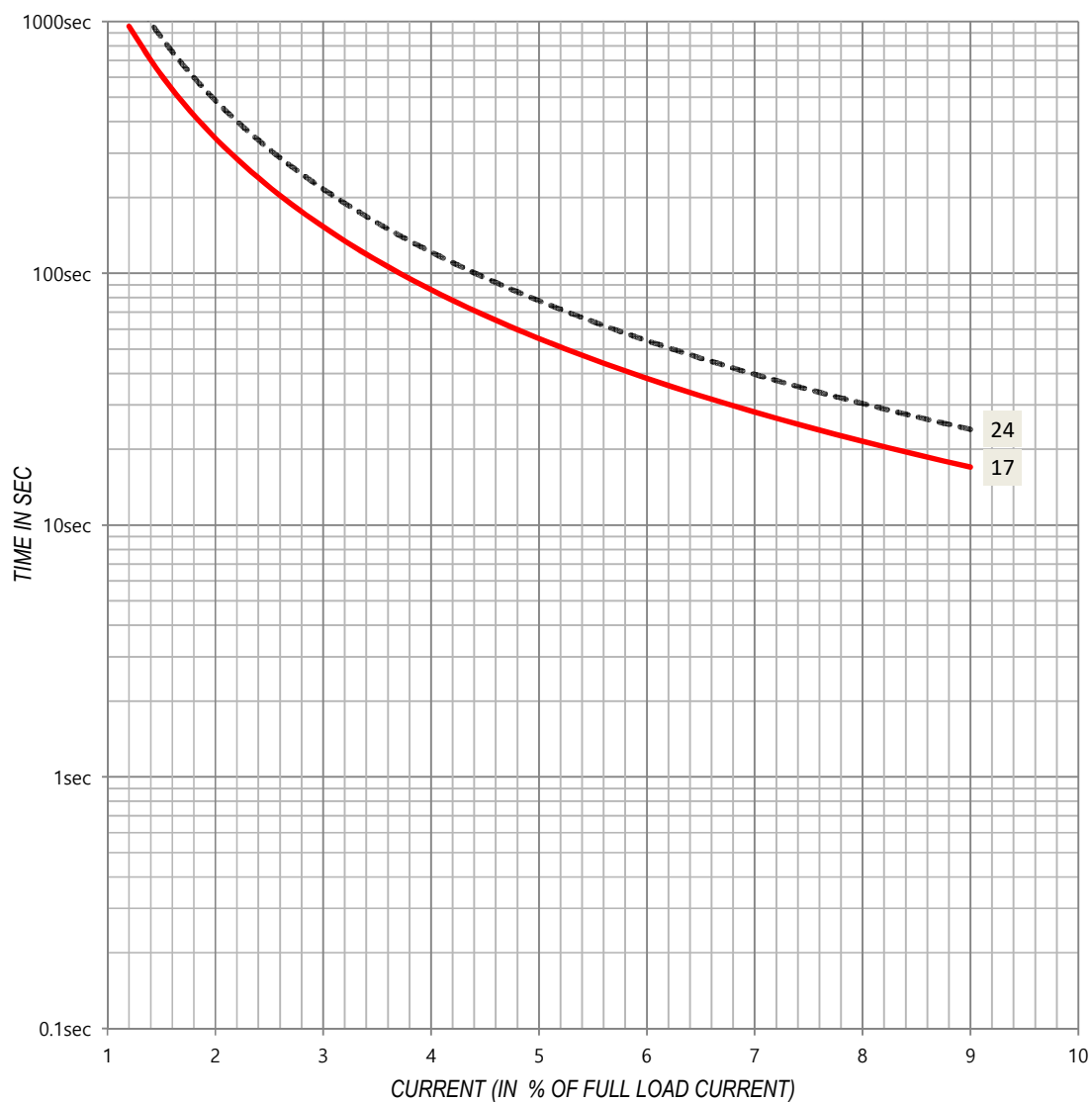


NOTE

	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	1	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	1.5	lb-ft	FULL LOAD CURRENT	2.7/1.4	A
LOCKED ROTOR TORQUE	340	%	LOCKED-ROTOR CURRENT	900	%
BREAKDOWN TORQUE	390	%	SPEED (at FULL LOAD)	3460	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.053	lb-ft ²

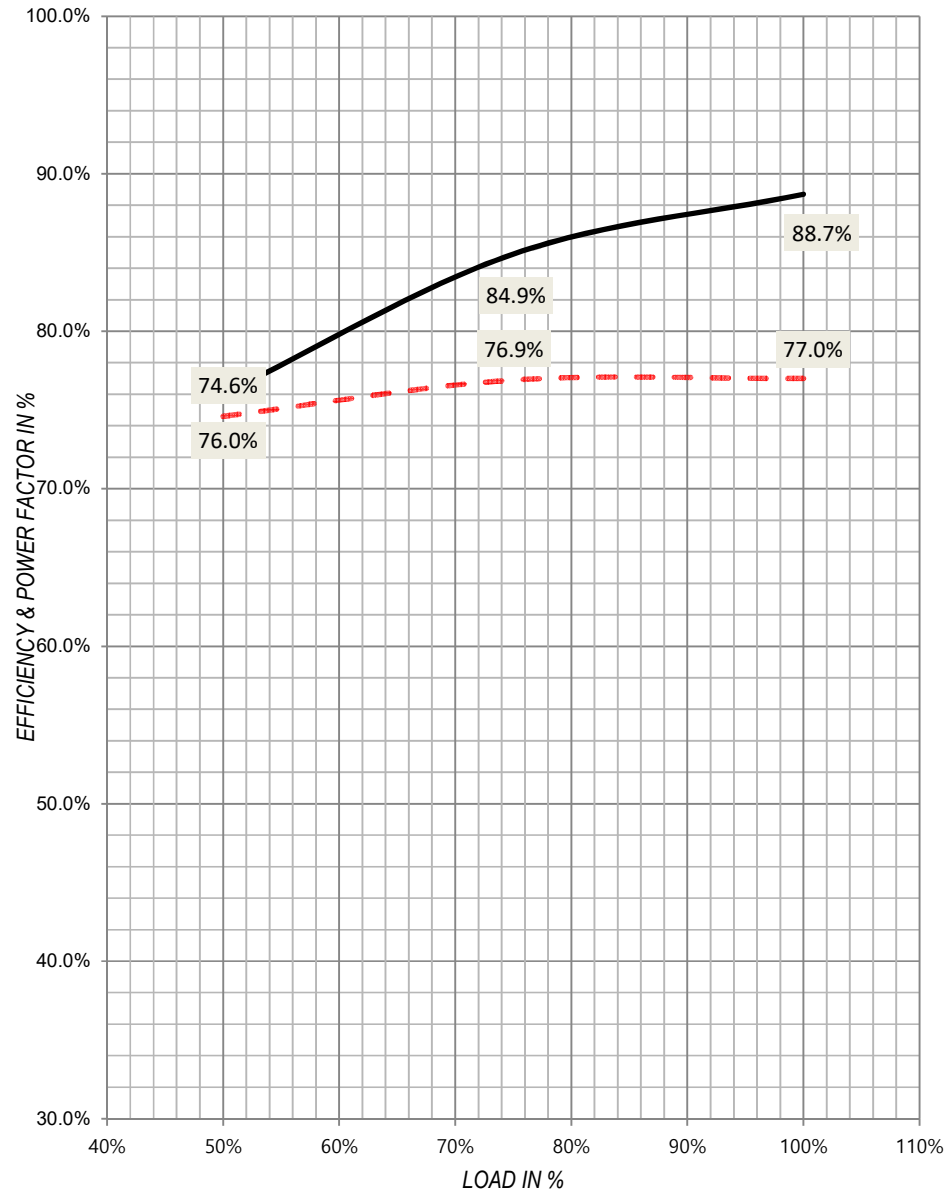


NOTE

- 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	1	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	1.5	lb-ft	FULL LOAD CURRENT	2.7/1.4	A
LOCKED ROTOR TORQUE	340	%	LOCKED-ROTOR CURRENT	900	%
BREAKDOWN TORQUE	390	%	SPEED (at FULL LOAD)	3460	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.053	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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