

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

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
15	11	3545	230/460	60	254TC	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.					
89.5	91	90.9	89.8	84.2	81.1	72.9

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
36.7/18.3	28.6/14.3	21.5/10.7	12.4/6.2	234.9/117.1	640

* Usable at 208V: 40 AMPS (FULL LOAD)

* Usable at 15HP 50Hz 380V 21.9A 2930R.P.M. S.F. 1.0 EFF. 89.5% (IE2)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
22.2	210	298	170	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)			
0.997	16	64	70	55	279

BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6309ZZ	6309ZZ	N/A	RIGID MOUNTING	NEMA

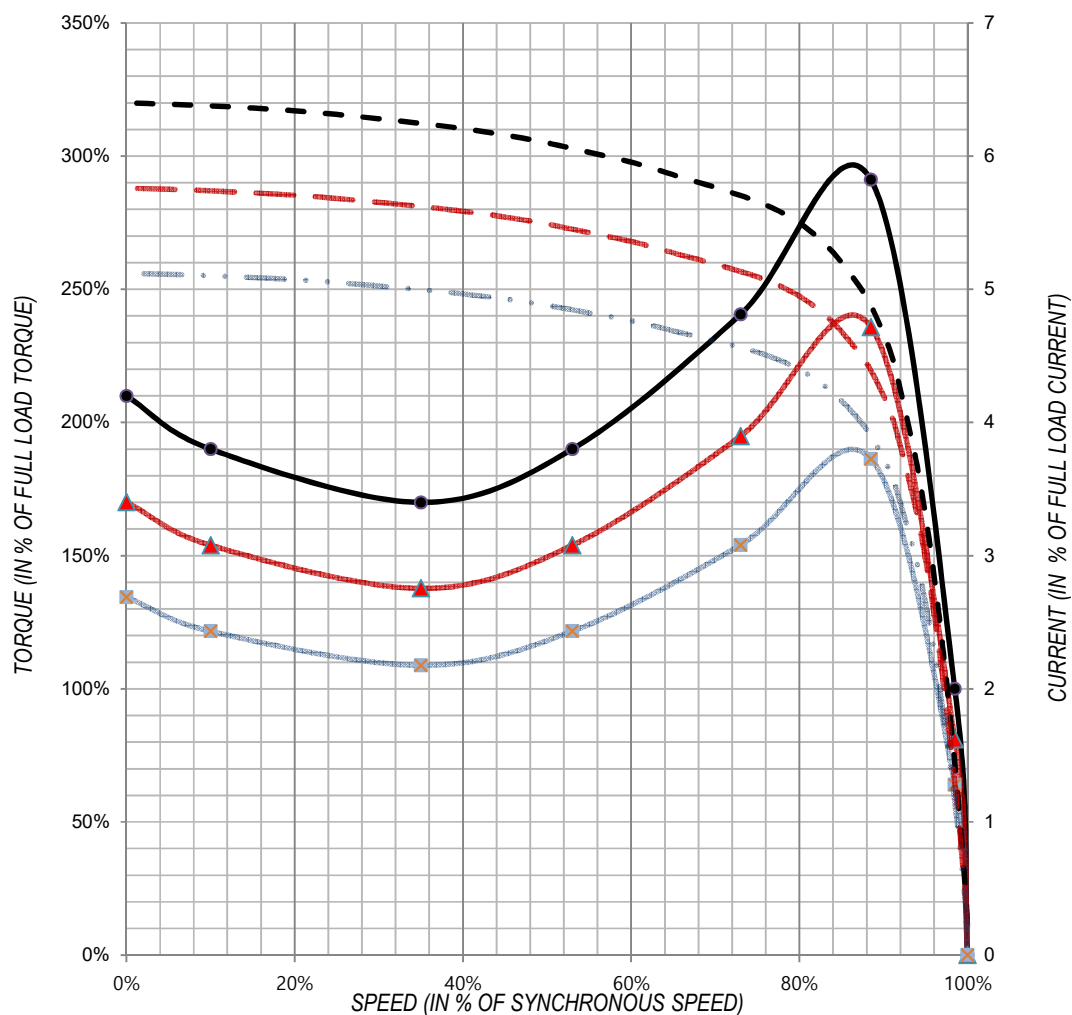
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0019~15	180~3600	0.056~22.2	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	1.5~15	360~3600	22.2	
CONSTANT HP	60~90	15	3600~5400	22.2~14.8	

DRAWING NO.	ES1AS180507	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	15	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	22.2	lb-ft	FULL LOAD CURRENT	36.7/18.3	A
LOCKED ROTOR TORQUE	210	%	LOCKED-ROTOR CURRENT	640	%
BREAKDOWN TORQUE	298	%	SPEED (at FULL LOAD)	3545	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.997	lb-ft ²

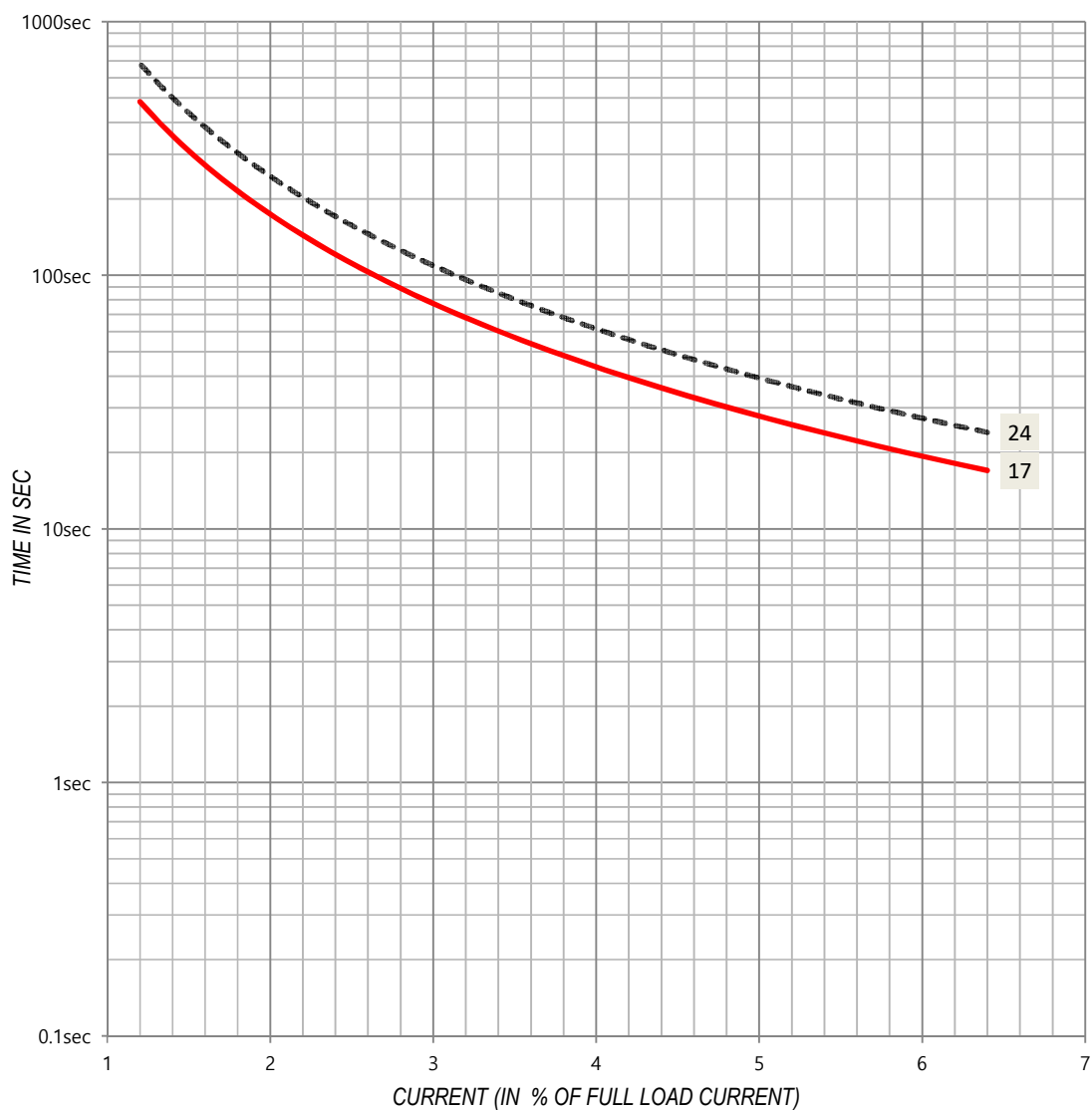


NOTE

- 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	15	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	22.2	lb-ft	FULL LOAD CURRENT	36.7/18.3	A
LOCKED ROTOR TORQUE	210	%	LOCKED-ROTOR CURRENT	640	%
BREAKDOWN TORQUE	298	%	SPEED (at FULL LOAD)	3545	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.997	lb-ft ²

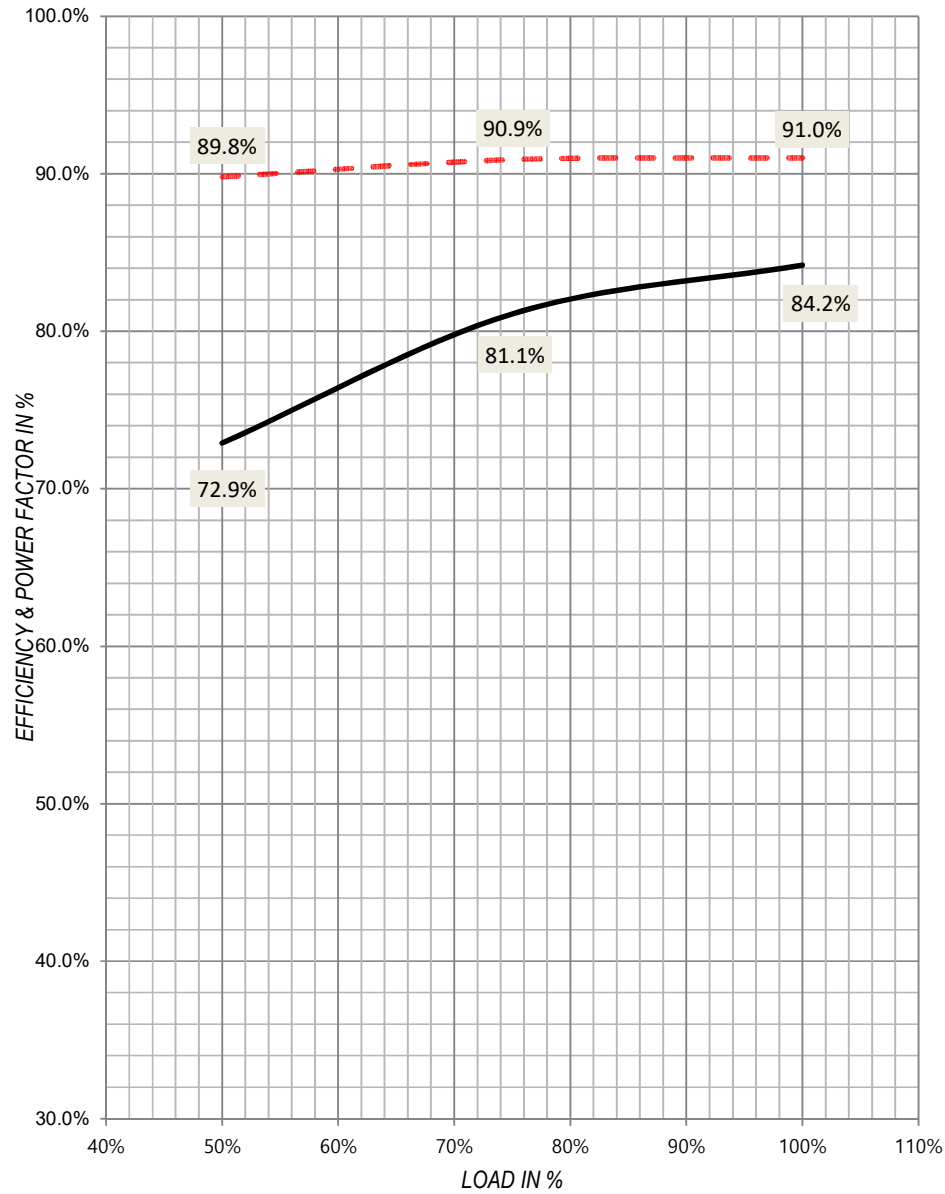


NOTE

- 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	15	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	22.2	lb-ft	FULL LOAD CURRENT	36.7/18.3	A
LOCKED ROTOR TORQUE	210	%	LOCKED-ROTOR CURRENT	640	%
BREAKDOWN TORQUE	298	%	SPEED (at FULL LOAD)	3545	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.997	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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