

 <b>HICO</b> 3 PHASE INDUCTION MOTOR	<b>PERFORMANCE DATASHEET</b>	ISSUED	01/15/2026
		MODEL	150HP 6P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
150	110	1190	230/460	60	447TC	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.					
95.0	95.8	96.1	96	83	81.2	74.8

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
353.3/176.6	270.0/135.0	195.6/97.8	111.5/55.8	2331.8/1165.6	660

\* Usable at 150HP 50Hz 380V 215.1A 990R.P.M. S.F. 1.0 EFF. 95% (IE2)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
662.5	120	200	100	2	1

MECHANICAL DATA					
INERTIA			SOUND PRESSURE LEVEL @ 3 ft (dB(A))	PROTECTION GRADE	WEIGHT (Lbs)
ROTOR WR <sup>2</sup> (lb-ft <sup>2</sup> )	NEMA LOAD WK <sup>2</sup> (lb-ft <sup>2</sup> )	MAX ALLOWABLE WK <sup>2</sup> (lb-ft <sup>2</sup> )			
109.375	1,720	2,106	74	55	2152

BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6319C3	6316C3	GREASE(MOBIL Polyrex EM)	RIGID MOUNTING	NEMA

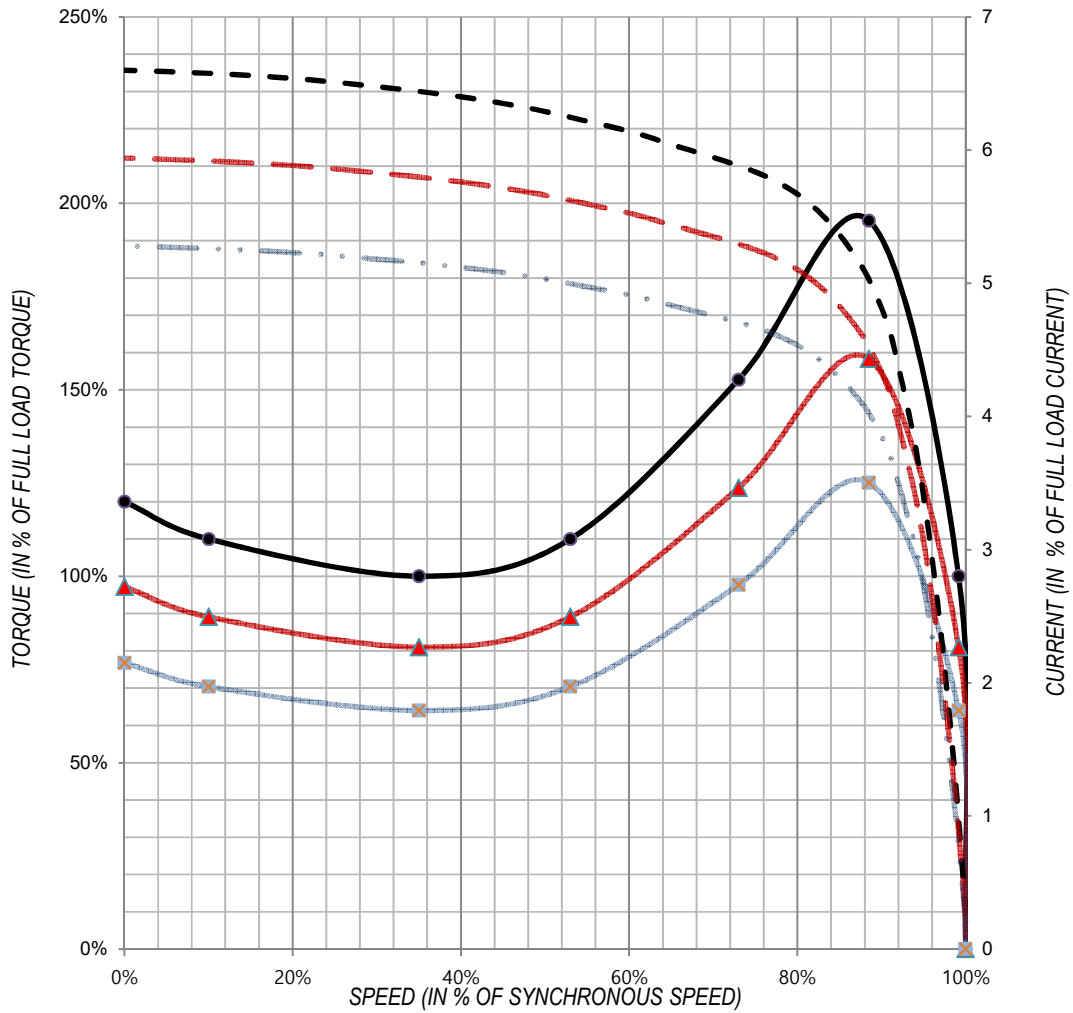
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0188~150	60~1200	1.656~662.5	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	15~150	120~1200	662.5	
CONSTANT HP	60~90	150	1200~1800	662.5~441.667	

<b>DRAWING NO.</b>	ES1AS180530	<b>REVISION</b>	0.1
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ALL DATA ABOVE ARE SUBJECTED TO CHANGE WITHOUT NOTICE.

<h1 style="margin: 0;">HICO</h1> <p style="margin: 0;">3 PHASE INDUCTION MOTOR</p>	<h2 style="margin: 0;">SPEED - TORQUE &amp; CURRENT CURVE</h2>			<b>Curve No.</b>	
				1ST	

OUTPUT	150	HP	POLES	6	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	662.5	lb-ft	FULL LOAD CURRENT	353.3/176.6	A
LOCKED ROTOR TORQUE	120	%	LOCKED-ROTOR CURRENT	660	%
BREAKDOWN TORQUE	200	%	SPEED (at FULL LOAD)	1190	RPM
GD <sup>2</sup> of LOAD :	-	lb-ft <sup>2</sup>	GD <sup>2</sup> of MOTOR	109.375	lb-ft <sup>2</sup>

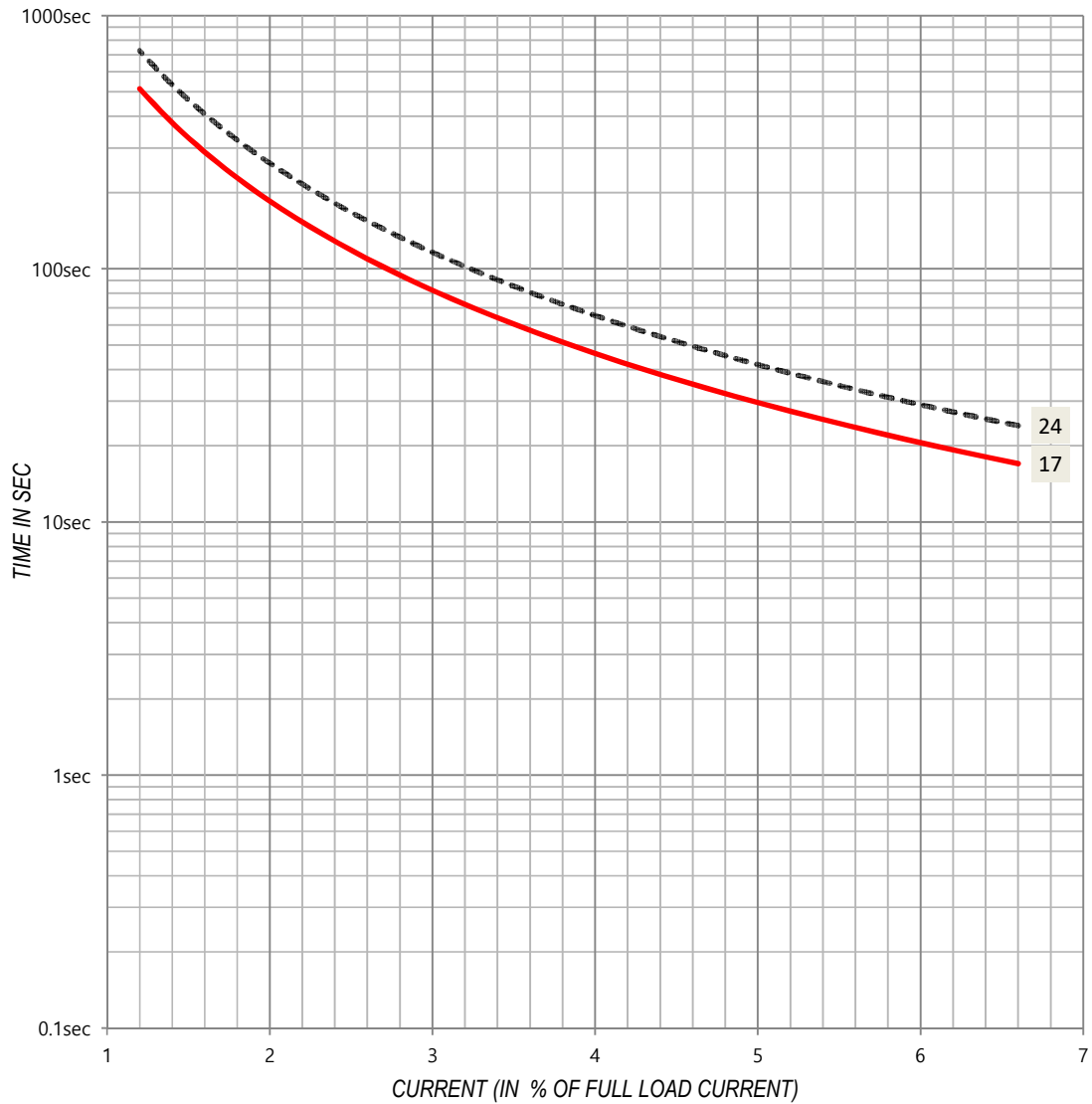


**NOTE**

- 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

<b>HICO</b> 3 PHASE INDUCTION MOTOR	<b>THERMAL LIMIT &amp; TIME - CURRENT CURVE</b>			Curve No.	
				1TL	

OUTPUT	150	HP	POLES	6	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	662.5	lb-ft	FULL LOAD CURRENT	353.3/176.6	A
LOCKED ROTOR TORQUE	120	%	LOCKED-ROTOR CURRENT	660	%
BREAKDOWN TORQUE	200	%	SPEED (at FULL LOAD)	1190	RPM
GD <sup>2</sup> of LOAD :	-	lb-ft <sup>2</sup>	GD <sup>2</sup> of MOTOR	109.375	lb-ft <sup>2</sup>

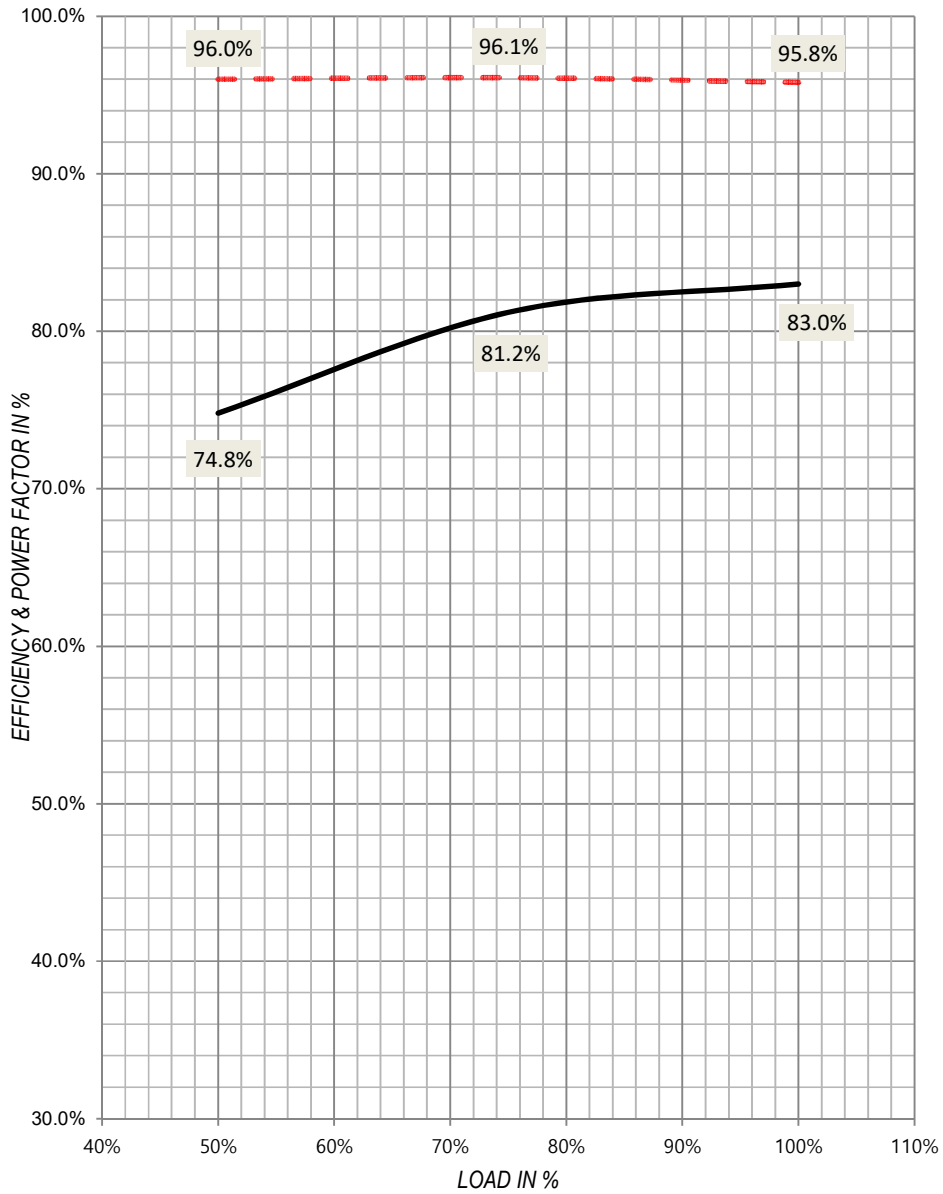


**NOTE**

- 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 GD<sup>2</sup> AT MOTOR SHAFT
- - - - - E : \* SPEED-TORQUE CURVE OF LOAD

<b>HICO</b> 3 PHASE INDUCTION MOTOR	<b>LOAD - POWER FACTOR  &amp; EFFICIENCY CURVE</b>				Curve No.
					1PE

OUTPUT	150	HP	POLES	6	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	662.5	lb-ft	FULL LOAD CURRENT	153.3/176.6	A
LOCKED ROTOR TORQUE	120	%	LOCKED-ROTOR CURRENT	660	%
BREAKDOWN TORQUE	200	%	SPEED (at FULL LOAD)	1190	RPM
GD <sup>2</sup> of LOAD :	-	lb-ft <sup>2</sup>	GD <sup>2</sup> of MOTOR	109.375	lb-ft <sup>2</sup>



**NOTE**

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

