

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET	ISSUED	01/15/2026
		MODEL	1.5HP 6P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	kW									
1.5	1.1	1180	230/460	60	182T	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.					
85.5	87.5	87.2	85.3	62.6	55.9	43.5

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
5.1/2.6	4.3/2.2	3.8/1.9	2.2/1.1	31.6/16.1	620

* Usable at 208V: 5.4 AMPS (FULL LOAD)

* Usable at 1.5HP 50Hz 380V 3.1A 970R.P.M. S.F. 1.0 EFF. 80.9% (IE2)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
6.7	170	254	140	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)			
0.504	23	62	67	55	93

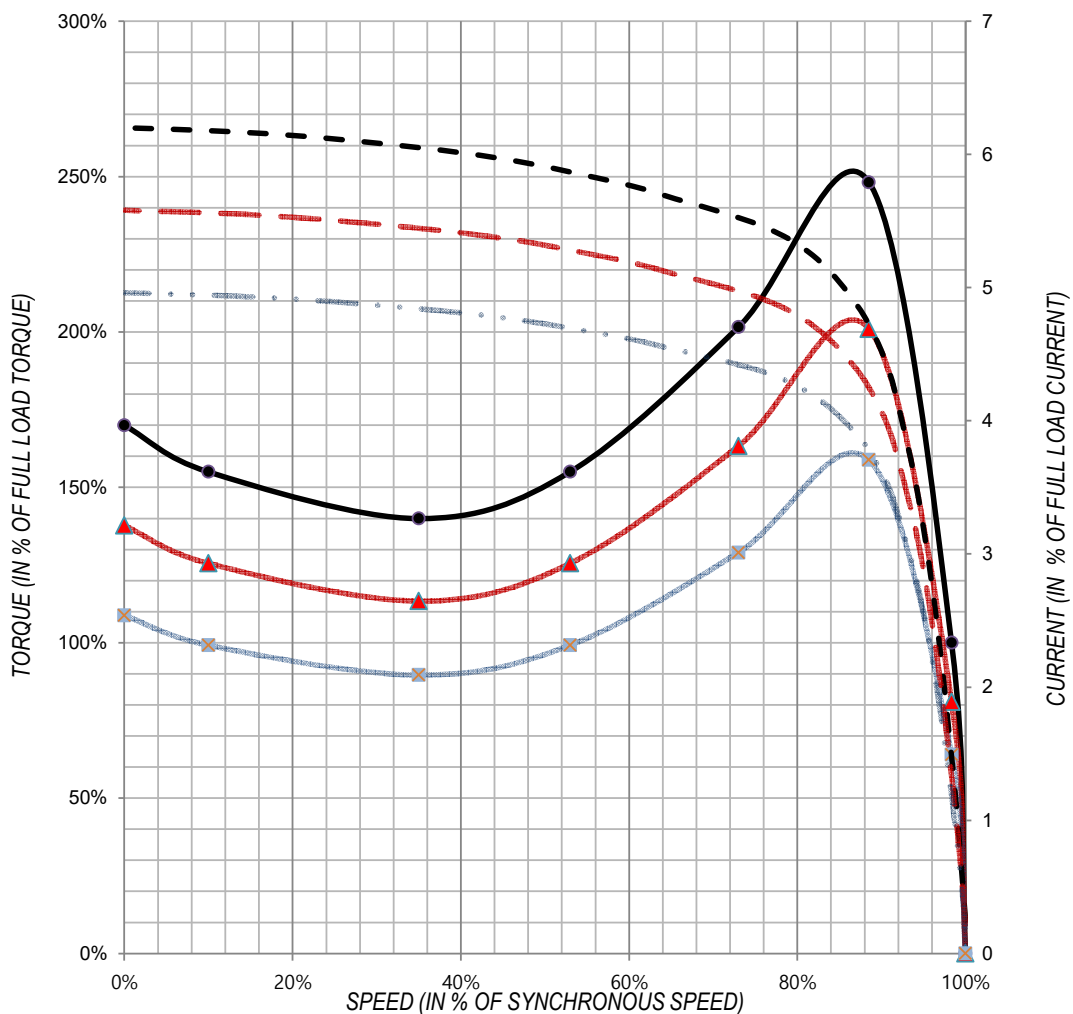
BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6207ZZ	6206ZZ	N/A	RIGID MOUNTING	NEMA

INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0002~1.5	60~1200	0.017~6.7	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	0.15~1.5	120~1200	6.7	
CONSTANT HP	60~90	1.5	1200~1800	6.7~4.467	

DRAWING NO.	ES1AS180403	REVISION	2.1
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ALL DATA ABOVE ARE SUBJECTED TO CHANGE WITHOUT NOTICE.

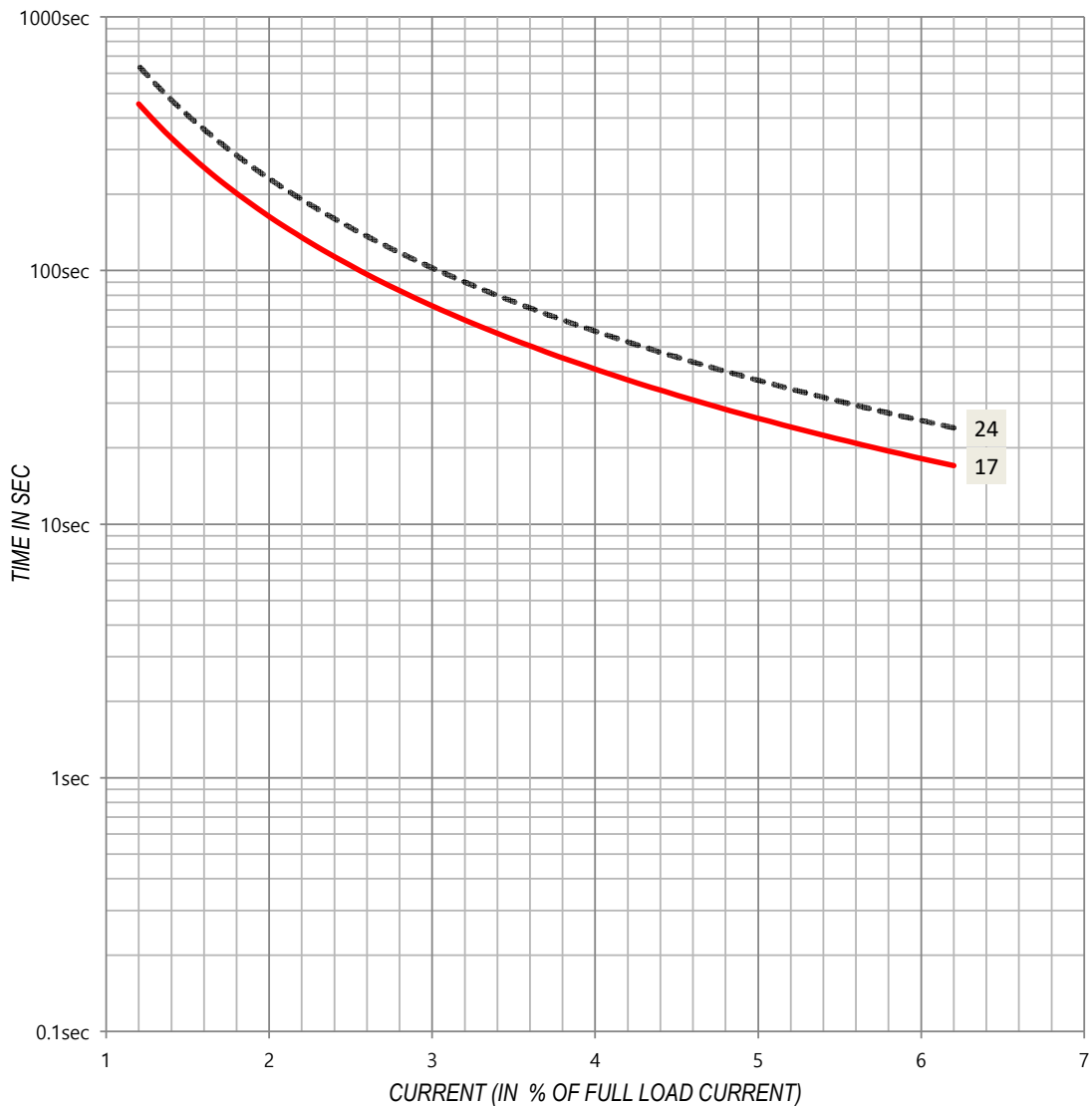
HICO 3 PHASE INDUCTION MOTOR			SPEED - TORQUE & CURRENT CURVE		Curve No.
					1ST
OUTPUT	1.5	HP	POLES	6	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	6.7	lb-ft	FULL LOAD CURRENT	5.1/2.6	A
LOCKED ROTOR TORQUE	170	%	LOCKED-ROTOR CURRENT	620	%
BREAKDOWN TORQUE	254	%	SPEED (at FULL LOAD)	1180	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.504	lb-ft ²



NOTE

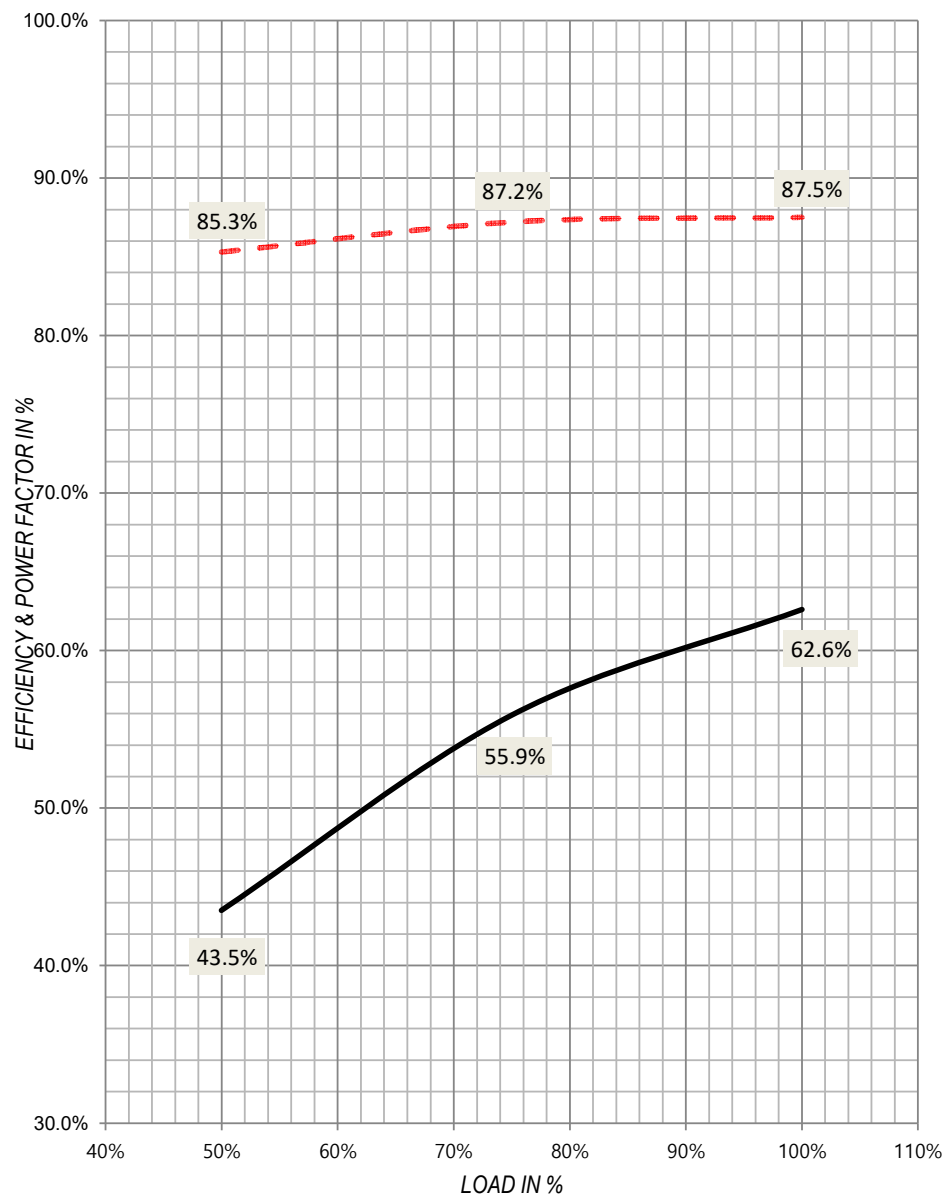
	A : SPEED-TORQUE CURVE AT	100% RATED VOLTAGE
	B : SPEED-TORQUE CURVE AT	90% RATED VOLTAGE
	C : SPEED-TORQUE CURVE AT	80% RATED VOLTAGE
	D : SPEED-CURRENT CURVE AT	100% RATED VOLTAGE
	E : SPEED-CURRENT CURVE AT	90% RATED VOLTAGE
	F : SPEED-CURRENT CURVE AT	80% RATED VOLTAGE

HICO 3 PHASE INDUCTION MOTOR			THERMAL LIMIT & TIME - CURRENT CURVE		Curve No.
					1TL
OUTPUT	1.5	HP	POLES	6	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	6.7	lb-ft	FULL LOAD CURRENT	5.1/2.6	A
LOCKED ROTOR TORQUE	170	%	LOCKED-ROTOR CURRENT	620	%
BREAKDOWN TORQUE	254	%	SPEED (at FULL LOAD)	1180	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.504	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	1.5	HP	POLES	6	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	6.7	lb-ft	FULL LOAD CURRENT	5.1/2.6	A
LOCKED ROTOR TORQUE	170	%	LOCKED-ROTOR CURRENT	620	%
BREAKDOWN TORQUE	254	%	SPEED (at FULL LOAD)	1180	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.504	lb-ft ²



NOTE

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

HICO

3 PHASE INDUCTION MOTOR

CONNECTION DIAGRAM

ISSUED

12/01/2024

DOUBLE VOLTAGE DELTA CONNECTION		DOUBLE VOLTAGE STAR CONNECTION		SINGLE VOLTAGE STAR-DELTA CONNECTION		DOUBLE VOLTAGE-STAR-DELTA CONNECTION			
LOW VOLTAGE	HIGH VOLTAGE	LOW VOLTAGE	HIGH VOLTAGE	STAR CONNECTION	DELTA CONNECTION	LOW VOLTAGE		HIGH VOLTAGE	
						STAR CONN.	DELTA CONN.	STAR CONN.	DELTA CONN.
DIRECT-ON-LINE STARTING		DIRECT-ON-LINE STARTING		WYE-DELTA STARTING		WYE-DELTA STARTING			

SINGLE VOLTAGE PART-WINDING CONNECTION		DOUBLE VOLTAGE PART WINDING CONNECTION			DOUBLE VOLTAGE-STAR-DELTA AND PART WINDING (at LOW VOLTAGE) CONNECTION					
PART WINDING CONNECTION	RUN	LOW VOLTAGE		HIGH VOLTAGE	LOW VOLTAGE			HIGH VOLTAGE		
		STARTING	RUN		PART-WINDING STARTING	STAR-DELTA STARTING	RUN	STAR-DELTA STARTING	RUN	RUN
PART-WINDING STARTING		LOW VOLTAGE PART-WINDING STARTING			LOW VOLTAGE PART-WINDING/STAR-DELTA STARTING					
		HIGH VOLTAGE DIRECT-ON-LINE STARTING			HIGH VOLTAGE DIRECT-ON-LINE STARTING					

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