

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	230/460	60	184T	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
5.5/2.7	4.6/2.3	3.8/1.9	2.4/1.2	30.3/14.9	550

* Usable at 208V: 6 AMPS (FULL LOAD)

* Usable at 2HP 50Hz 380V 3.3A 965R.P.M. S.F. 1.0 EFF. 85.8% (IE3)

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	103

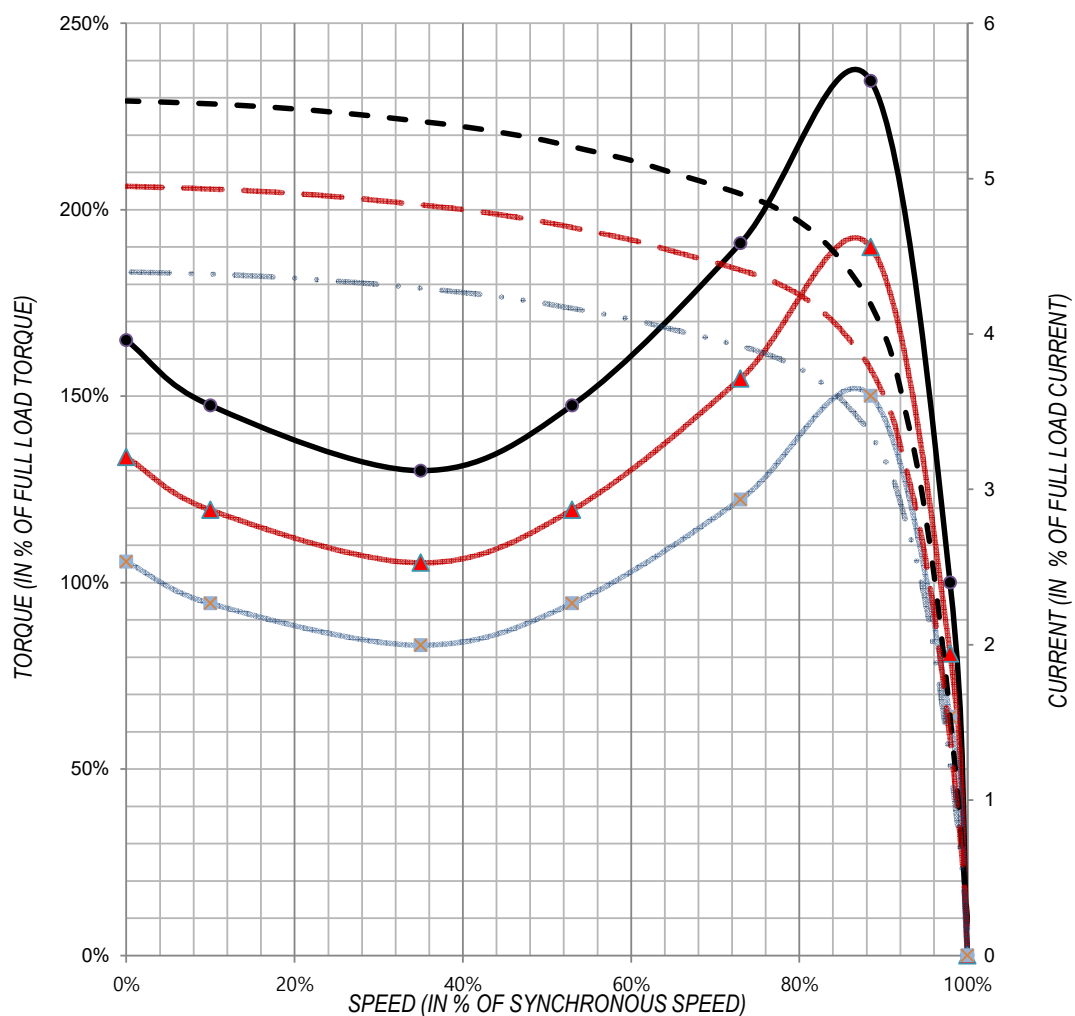
BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6207ZZ	6206ZZ	N/A	RIGID MOUNTING	NEMA

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.	ES1AS180404	REVISION	2.1
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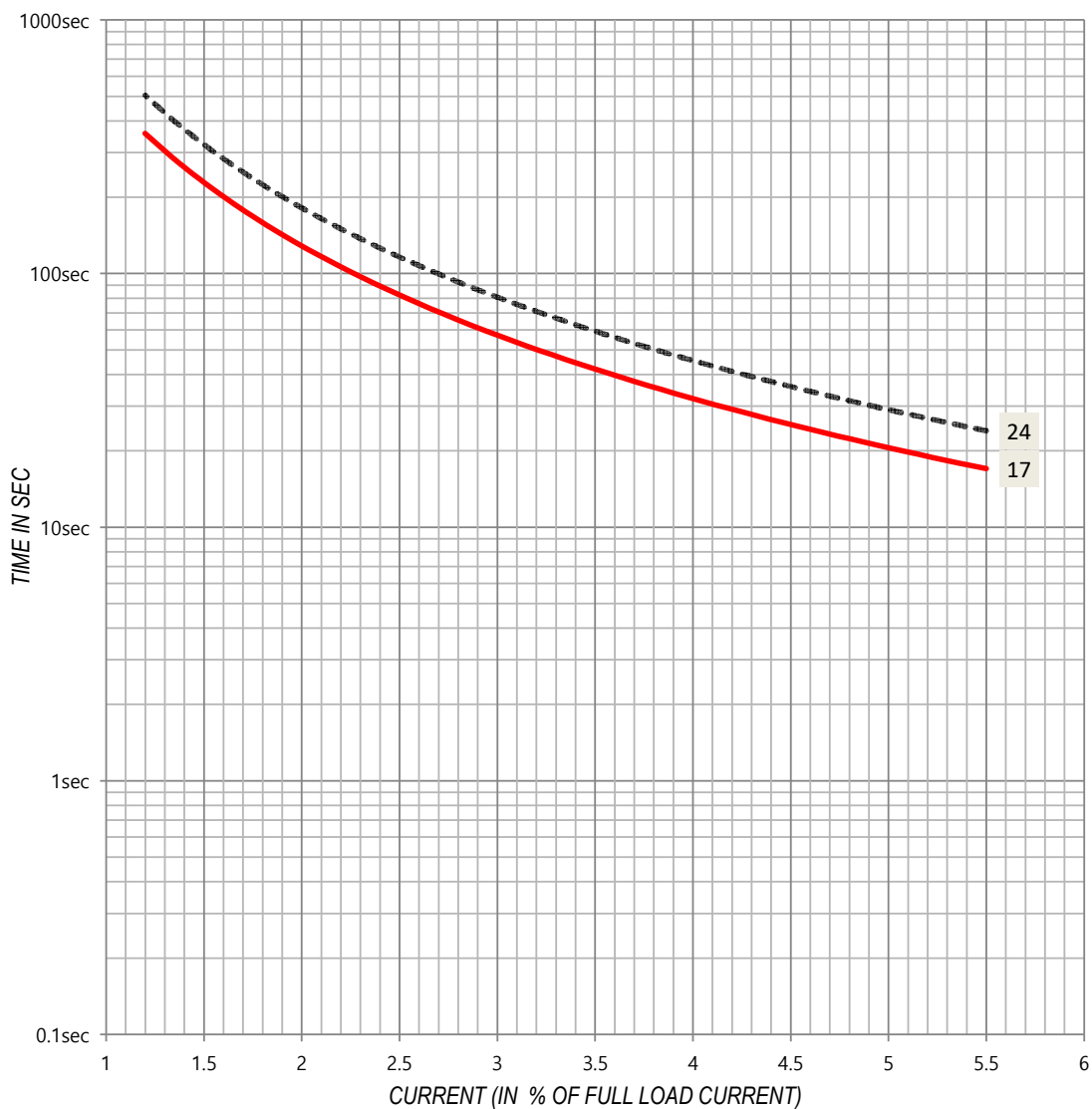
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HICO 3 PHASE INDUCTION MOTOR	SPEED - TORQUE & CURRENT CURVE			Curve No.	
				1ST	
OUTPUT	2	HP	POLES	6	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	8.9	lb-ft	FULL LOAD CURRENT	5.5/2.7	A
LOCKED ROTOR TORQUE	165	%	LOCKED-ROTOR CURRENT	550	%
BREAKDOWN 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	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	8.9	lb-ft	FULL LOAD CURRENT	5.5/2.7	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
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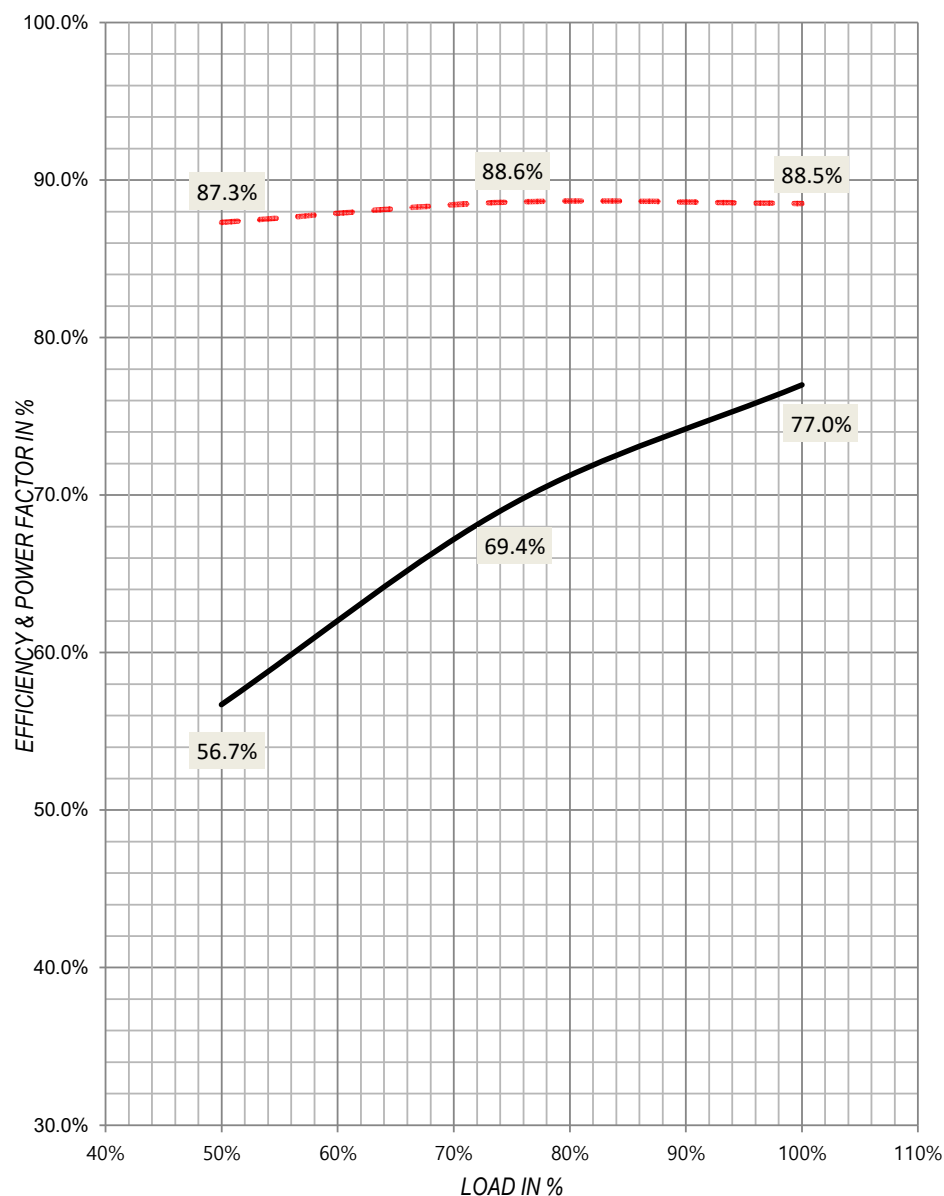
D :

* 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	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	8.9	lb-ft	FULL LOAD CURRENT	5.5/2.7	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

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 HIGH VOLTAGE DIRECT-ON-LINE STARTING			LOW VOLTAGE PART-WINDING/STAR-DELTA STARTING HIGH VOLTAGE DIRECT-ON-LINE STARTING					

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