

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET	ISSUED	01/15/2026
		MODEL	10HP 6P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	kW									
10	7.5	1175	575	60	256TD	TEFC	1.25	F	CONT.	40°C
TEMP. RISE	NEMA DESIGN	kVA CODE	Class/Division Hazardous Location							
B	B	H	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	91.1	90	74.7	68.9	57.3

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
11.0	9.0	7.3	5.6	69.3	630

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
44.7	250	292	225	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)			
4.687	137	523	68	55	306

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

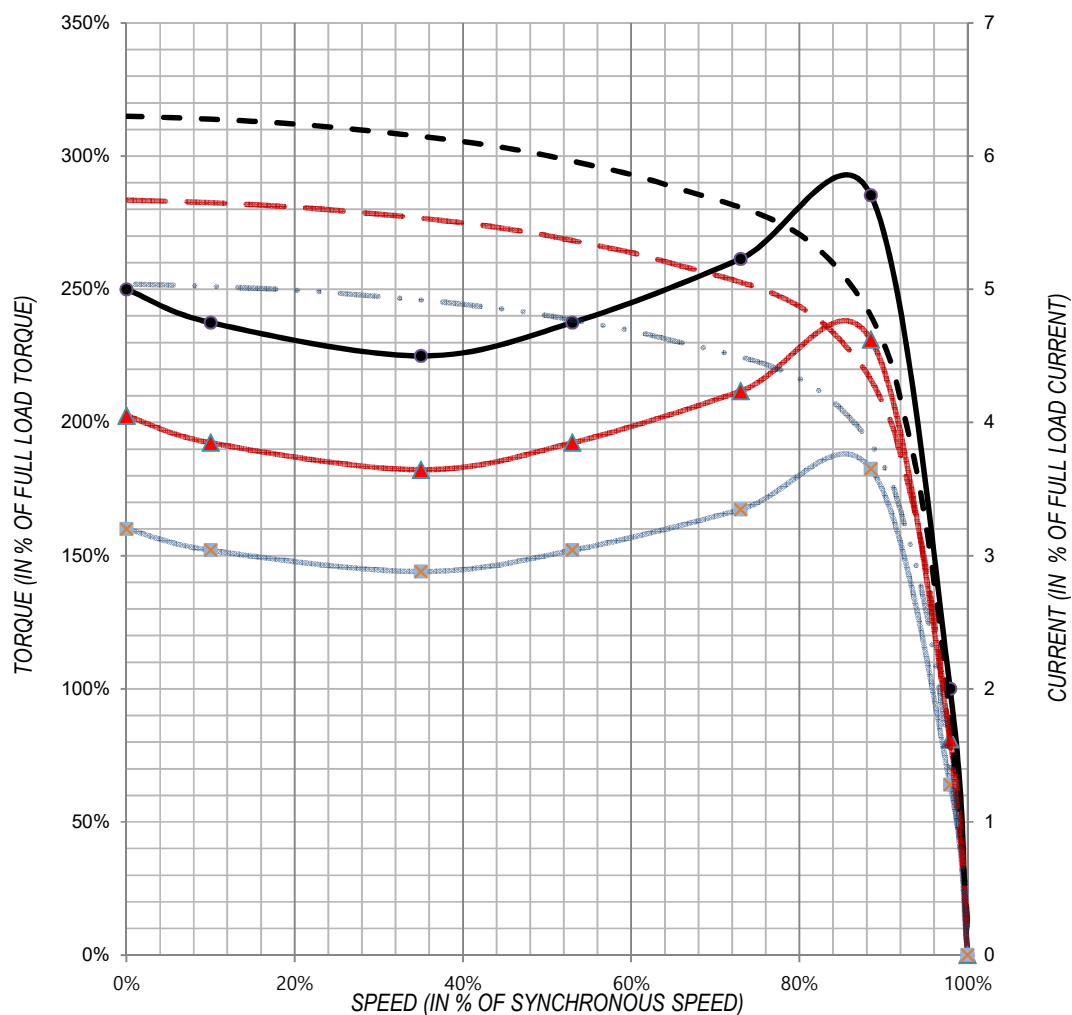
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0013~10	60~1200	0.112~44.7	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	1~10	120~1200	44.7	
CONSTANT HP	60~90	10	1200~1800	44.7~29.8	

DRAWING NO.	ES1AS185708	REVISION	0.1
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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

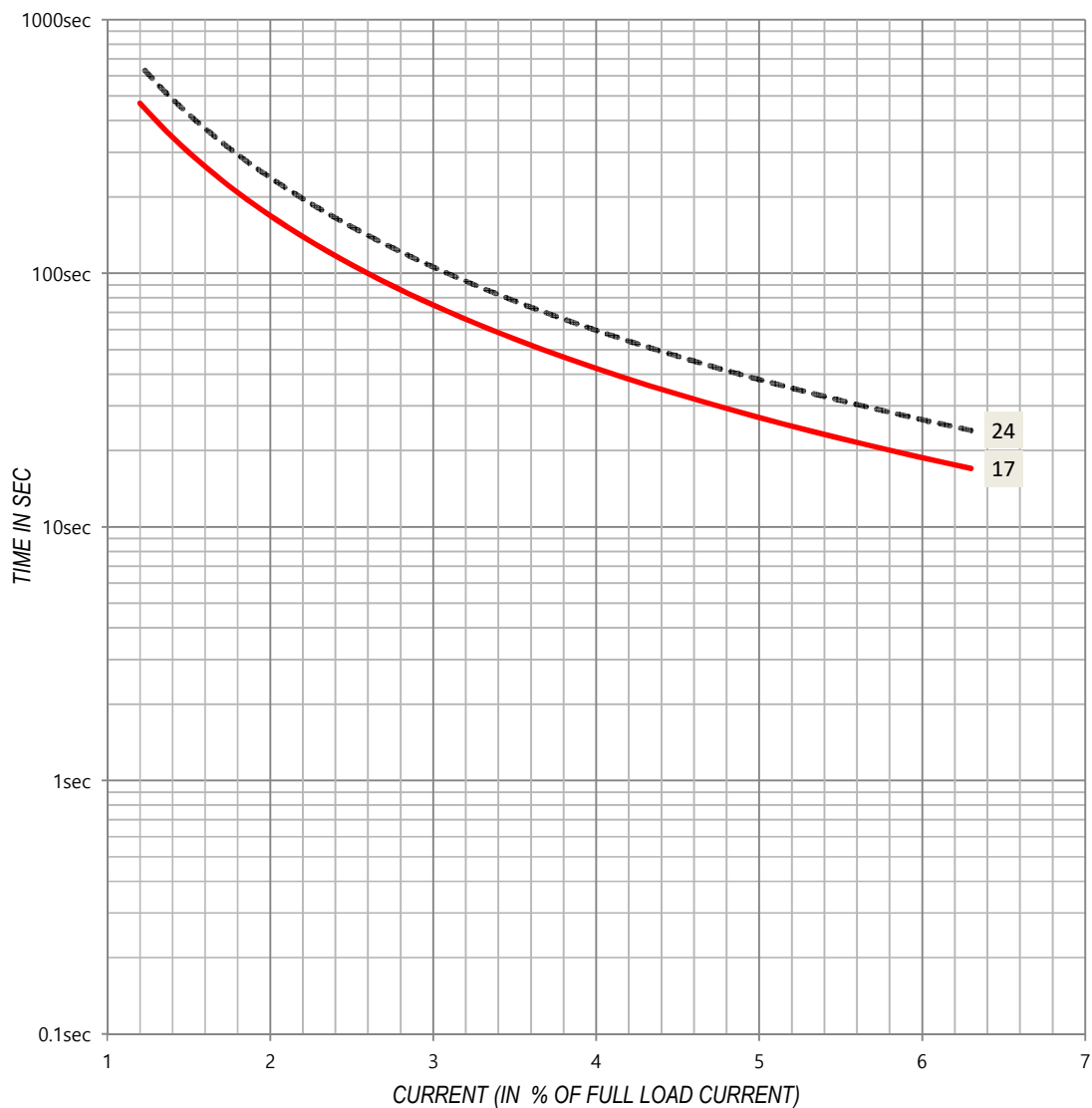
OUTPUT	10	HP	POLES	6	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	44.7	lb-ft	FULL LOAD CURRENT	11.0	A
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	630	%
BREAKDOWN TORQUE	292	%	SPEED (at FULL LOAD)	1175	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	4.687	lb-ft ²



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	10	HP	POLES	6	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	44.7	lb-ft	FULL LOAD CURRENT	11.0	A
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	630	%
BREAKDOWN TORQUE	292	%	SPEED (at FULL LOAD)	1175	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	4.687	lb-ft ²

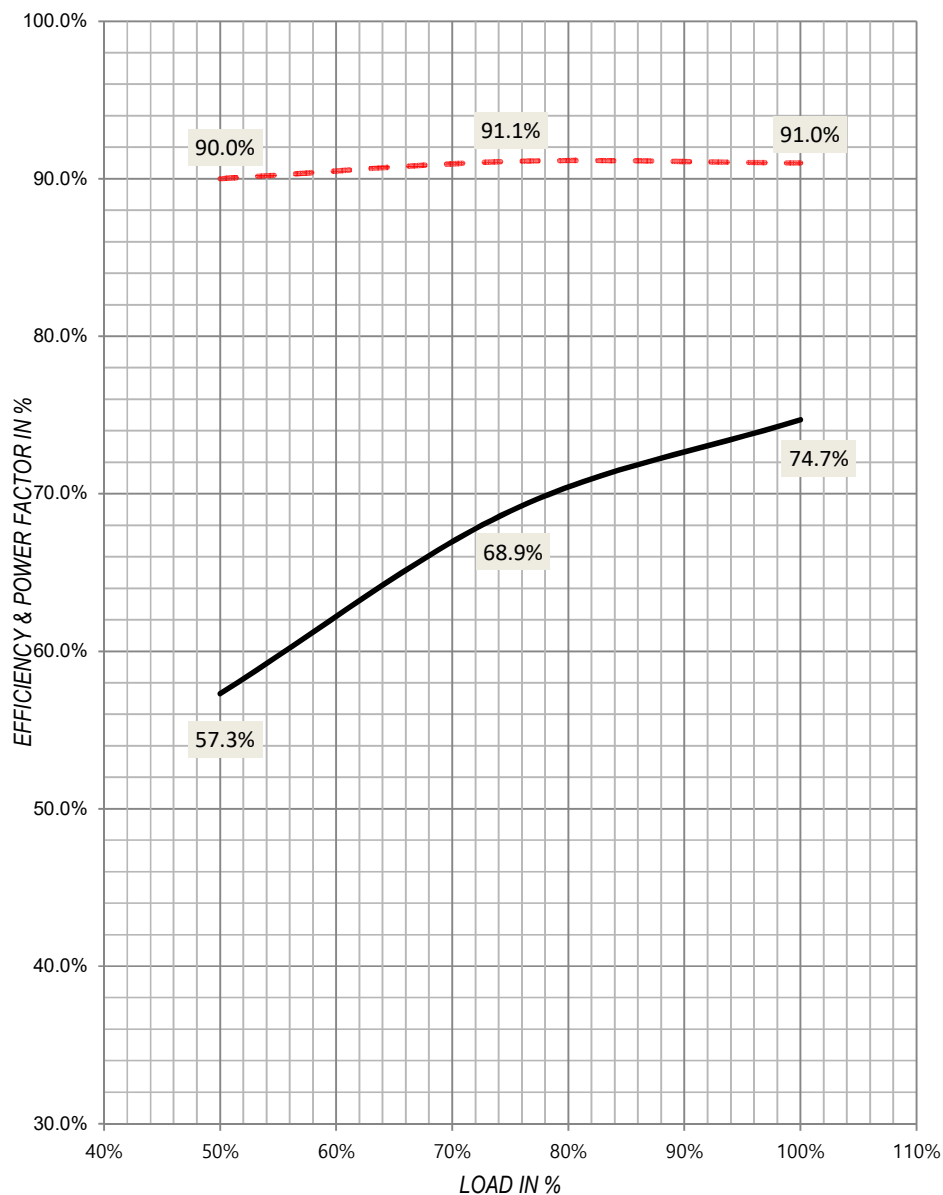


NOTE

- 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	10	HP	POLES	6	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	44.7	lb-ft	FULL LOAD CURRENT	11.0	A
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	630	%
BREAKDOWN TORQUE	292	%	SPEED (at FULL LOAD)	1175	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	4.687	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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