

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET	ISSUED	01/15/2026
		MODEL	10HP 2P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
10	7.5	3505	230/460	60	215T	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.					
88.5	90.2	90.8	90.3	83.5	81	74.2

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
24.9/12.4	19.1/9.5	14.0/7.0	7.4/3.7	174.3/86.8	700

* Usable at 208V: 27.5 AMPS (FULL LOAD)

* Usable at 10HP 50Hz 380V 15.2A 2875R.P.M. S.F. 1.0 EFF. 87.9% (IE1)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
15	250	350	217	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)			
0.481	11	28	69	55	150

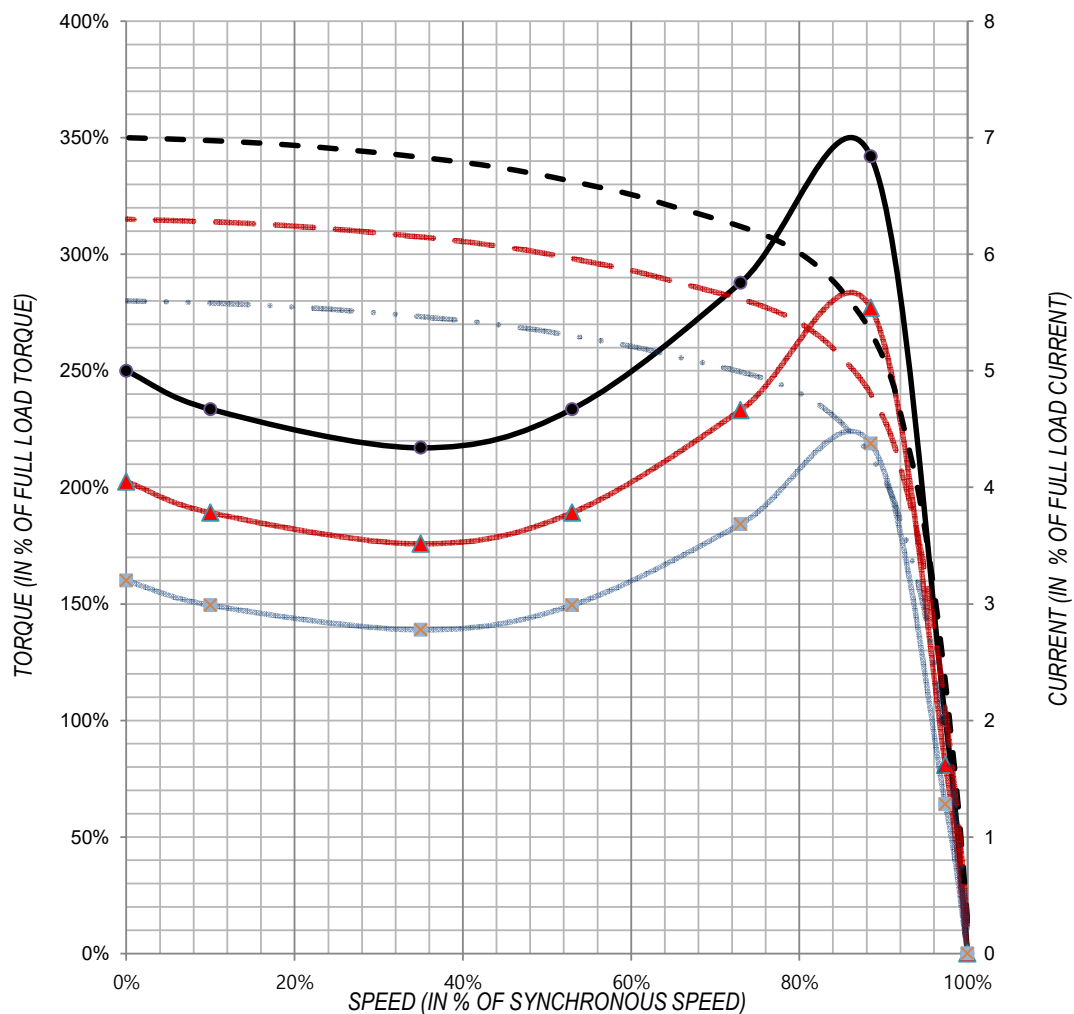
BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6208ZZ	6207ZZ	N/A	RIGID MOUNTING	NEMA

INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0013~10	180~3600	0.038~15	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	1~10	360~3600	15	
CONSTANT HP	60~90	10	3600~5400	15~10	

DRAWING NO.	ES1AS180406	REVISION	2.1
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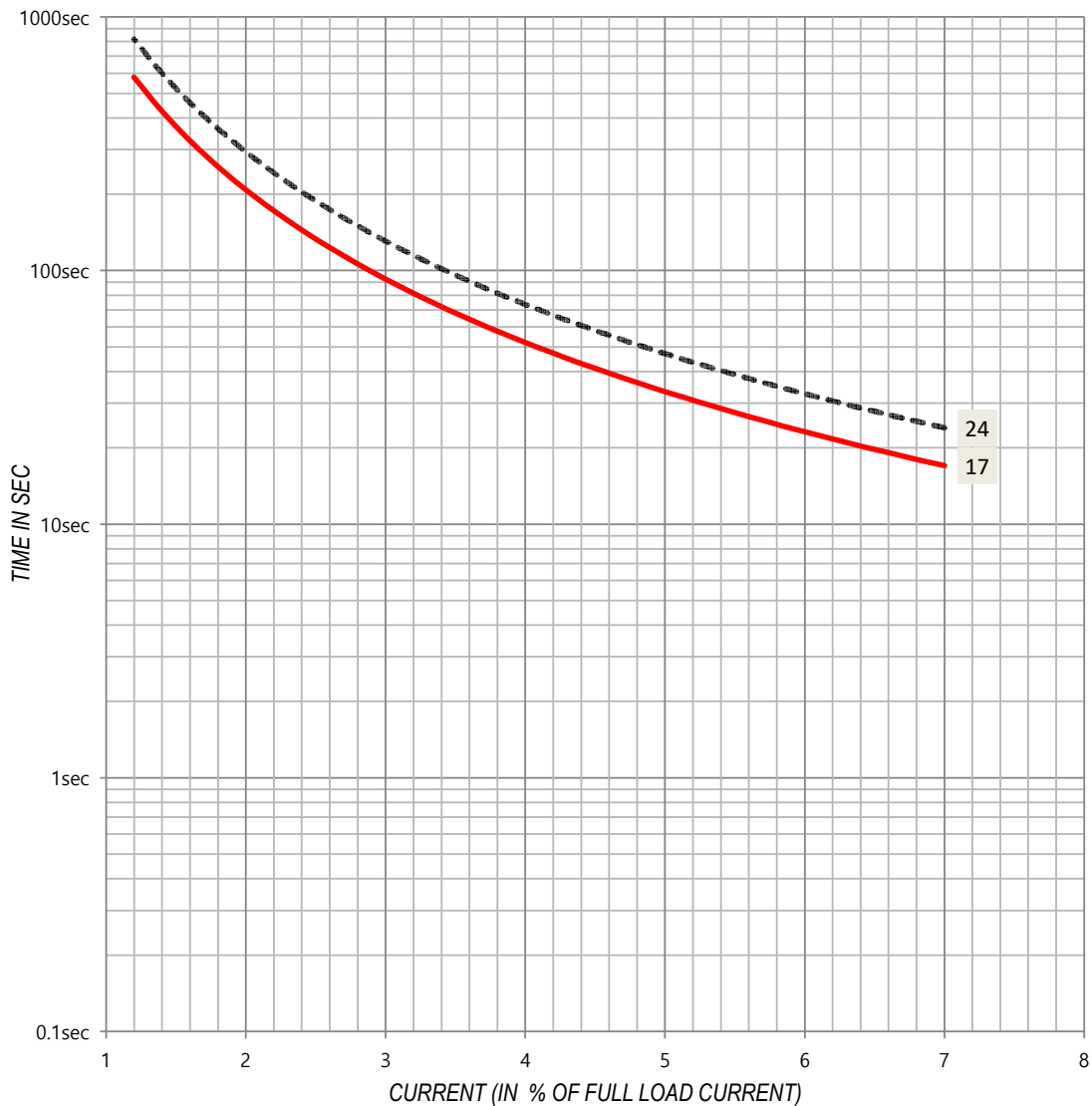
HICO 3 PHASE INDUCTION MOTOR			SPEED - TORQUE & CURRENT CURVE		Curve No.
					1ST
OUTPUT	10	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	15.0	lb-ft	FULL LOAD CURRENT	24.9/12.4	A
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	700	%
BREAKDOWN TORQUE	350	%	SPEED (at FULL LOAD)	3505	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.481	lb-ft ²



NOTE

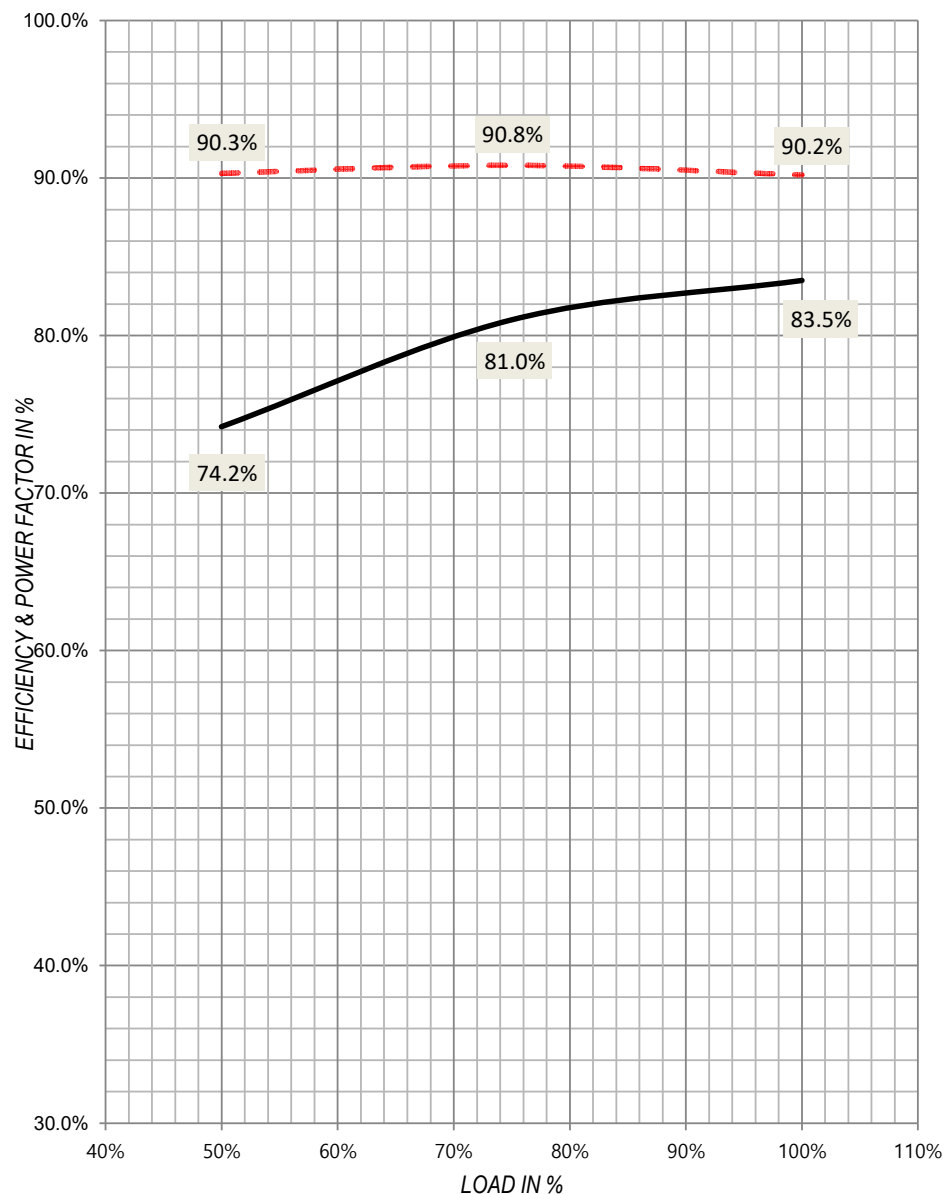
- A : SPEED-TORQUE CURVE AT 100% RATED VOLTAGE
- ▲— B : SPEED-TORQUE CURVE AT 90% RATED VOLTAGE
- C : SPEED-TORQUE CURVE AT 80% RATED VOLTAGE
- - - D : SPEED-CURRENT CURVE AT 100% RATED VOLTAGE
- - - E : SPEED-CURRENT CURVE AT 90% RATED VOLTAGE
- - - F : SPEED-CURRENT CURVE AT 80% RATED VOLTAGE

HICO 3 PHASE INDUCTION MOTOR			THERMAL LIMIT & TIME - CURRENT CURVE		Curve No.	
					1TL	
OUTPUT	10	HP	POLES	2	P	
VOLTAGE	230/460	V	FREQUENCY	60	Hz	
FULL LOAD TORQUE	15.0	lb-ft	FULL LOAD CURRENT	24.9/12.4	A	
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	700	%	
BREAKDOWN TORQUE	350	%	SPEED (at FULL LOAD)	3505	RPM	
GD ² of LOAD :	-	lb·ft ²	GD ² of MOTOR	0.481	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	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	15.0	lb-ft	FULL LOAD CURRENT	24.9/12.4	A
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	700	%
BREAKDOWN TORQUE	350	%	SPEED (at FULL LOAD)	3505	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.481	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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