

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET	ISSUED	01/15/2026
		MODEL	60HP 2P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
60	45	3550	230/460	60	364TSC	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.					
92.4	93.6	94.1	94	91.1	90.2	86.6

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
131.8/65.9	99.3/49.6	69.0/34.5	32.0/16.0	935.8/467.9	710

* Usable at 60HP 50Hz 380V 80.5A 2940R.P.M. S.F. 1.0 EFF. 92.5% (IE1)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
88.8	120	188	100	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)			
8.113	58	89	78	55	812

BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6312C3	6312C3	GREASE(MOBIL Polyrex EM)	RIGID MOUNTING	NEMA

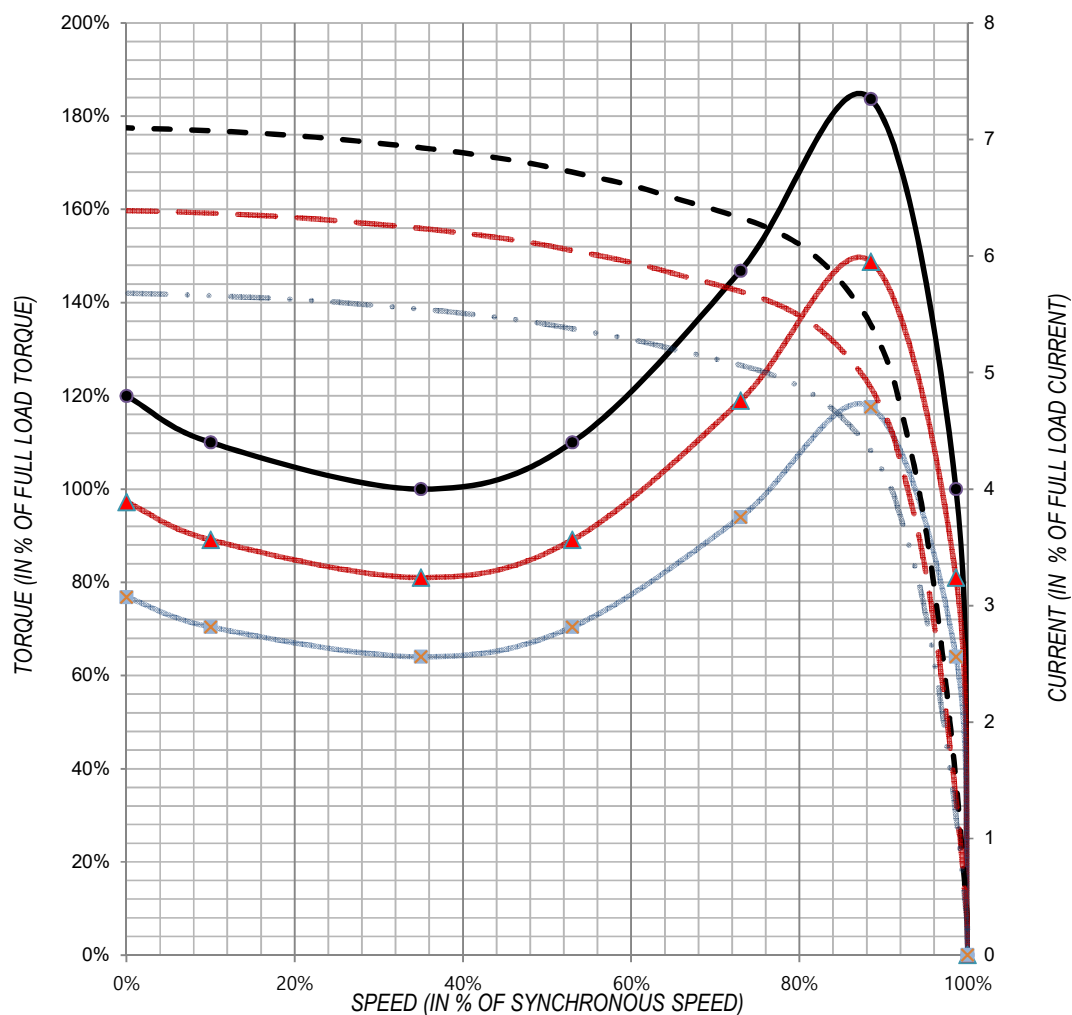
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0075~60	180~3600	0.222~88.8	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	6~60	360~3600	88.8	
CONSTANT HP	60~90	60	3600~5400	88.8~59.2	

DRAWING NO.	ES1AS180517	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	60	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	88.8	lb-ft	FULL LOAD CURRENT	131.8/65.9	A
LOCKED ROTOR TORQUE	120	%	LOCKED-ROTOR CURRENT	710	%
BREAKDOWN TORQUE	188	%	SPEED (at FULL LOAD)	3550	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	8.113	lb-ft ²

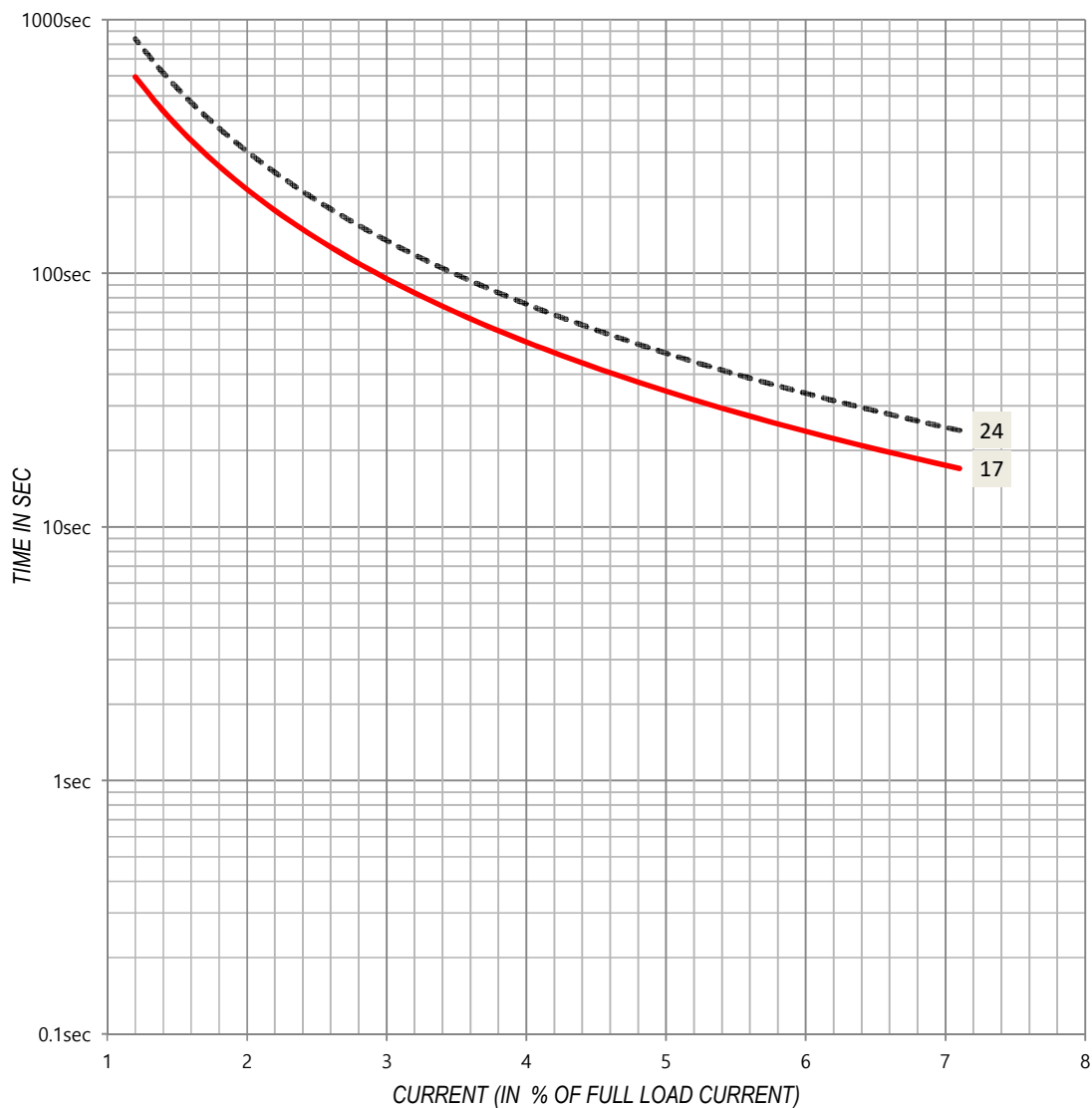


NOTE

- 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

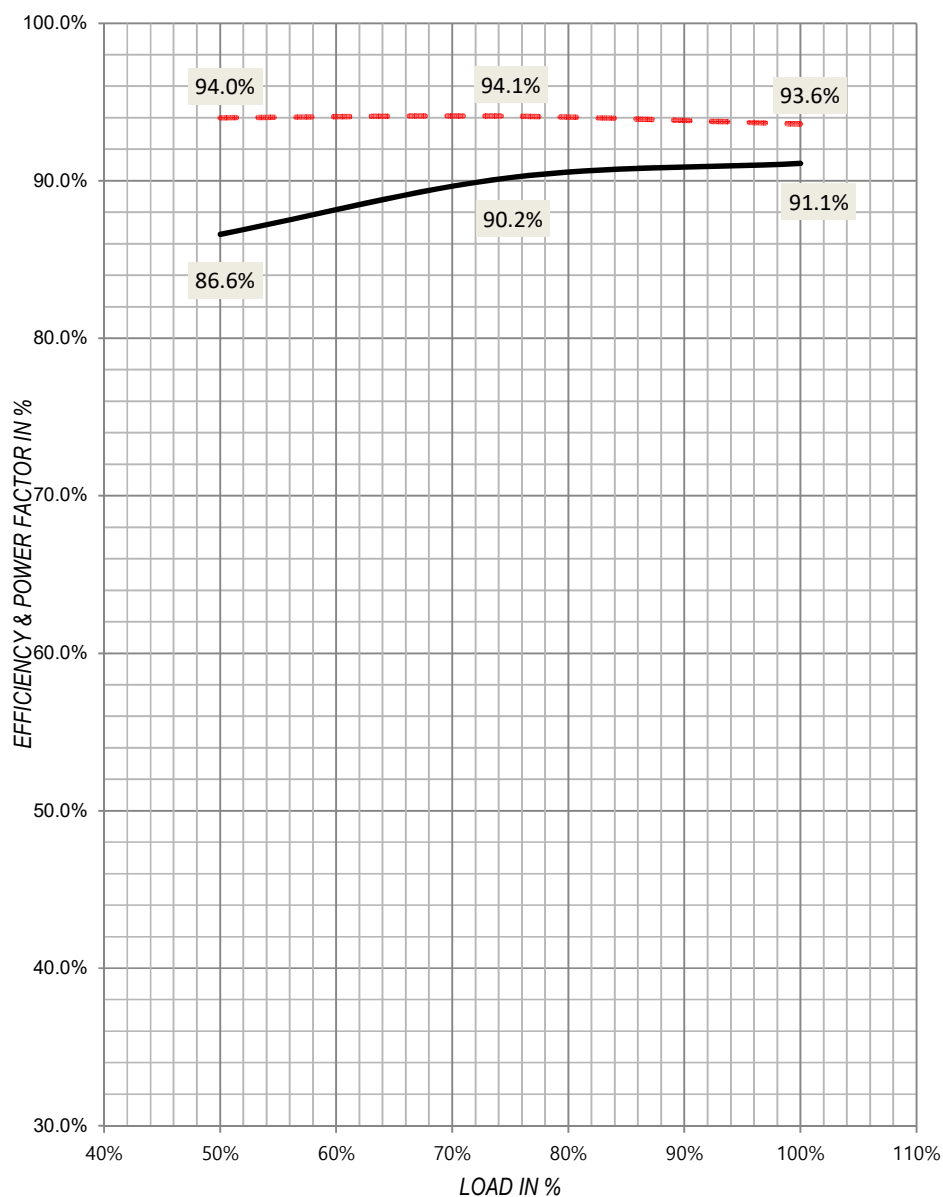
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VOLTAGE	230/460	V	FREQUENCY	60	Hz
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LOCKED ROTOR TORQUE	120	%	LOCKED-ROTOR CURRENT	710	%
BREAKDOWN TORQUE	188	%	SPEED (at FULL LOAD)	3550	RPM
GD ² of LOAD :	-	lb·ft ²	GD ² of MOTOR	8.113	lb·ft ²



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	60	HP	POLES	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	88.8	lb-ft	FULL LOAD CURRENT	131.8/65.9	A
LOCKED ROTOR TORQUE	120	%	LOCKED-ROTOR CURRENT	710	%
BREAKDOWN TORQUE	188	%	SPEED (at FULL LOAD)	3550	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	8.113	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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