

HICO 3 PHASE INDUCTION MOTOR	PERFORMANCE DATASHEET	ISSUED	01/15/2026
		MODEL	1.5HP 4P

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
1.5	1.1	1745	230/460	60	145TD	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.					
84.0	86.5	87.1	86.3	73.5	68.3	57.4

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
4.4/2.2	3.5/1.8	2.8/1.4	1.8/0.9	32.6/16.3	740

* Usable at 208V: 4.8 AMPS (FULL LOAD)

* Usable at 1.5HP 50Hz 380V 2.7A 1420R.P.M. S.F. 1.0 EFF. 82.8% (IE2)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
4.5	250	300	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)			
0.136	9	18	67	55	68

BEARING		GREASE	MOUNTING	
DE	ODE		TYPE OF CONSTRUCTION	TERMINAL BOX DESIGN
6205ZZ	6204ZZ	N/A	RIGID MOUNTING	NEMA

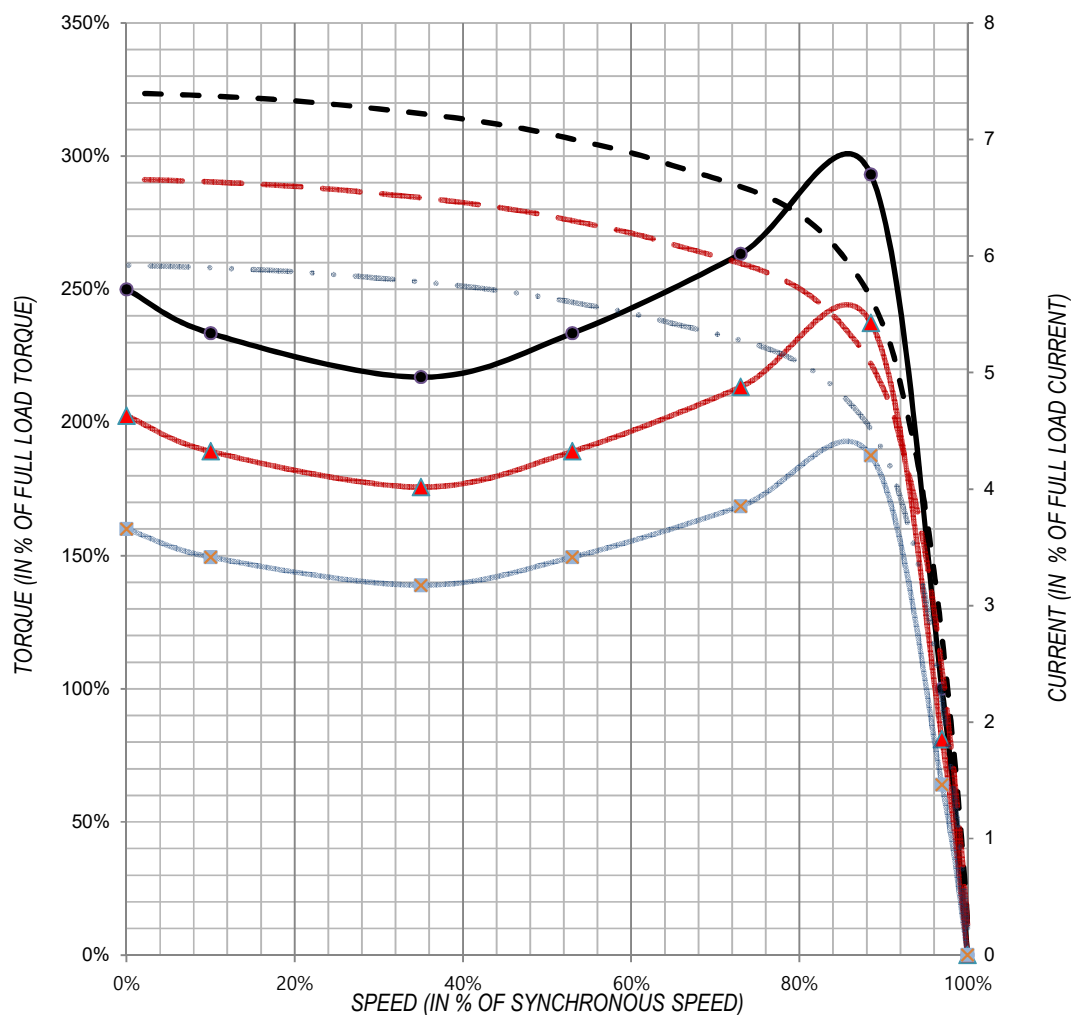
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0002~1.5	90~1800	0.011~4.5	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	0.15~1.5	180~1800	4.5	
CONSTANT HP	60~90	1.5	1800~2700	4.5~3	

DRAWING NO.	ES1AS185702	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	4	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	4.5	lb-ft	FULL LOAD CURRENT	4.4/2.2	A
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	740	%
BREAKDOWN TORQUE	300	%	SPEED (at FULL LOAD)	1745	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	0.136	lb-ft ²

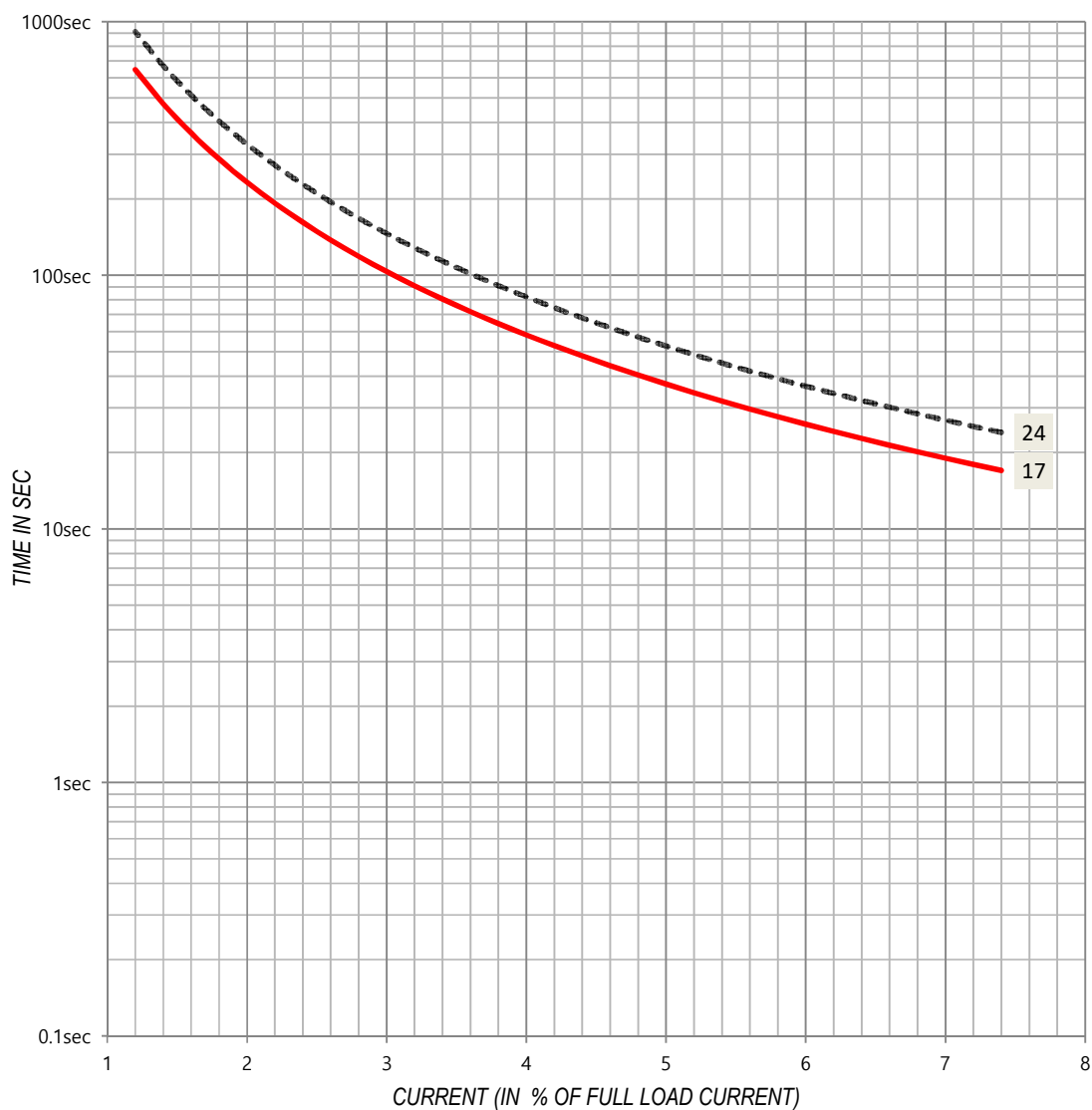


NOTE

	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

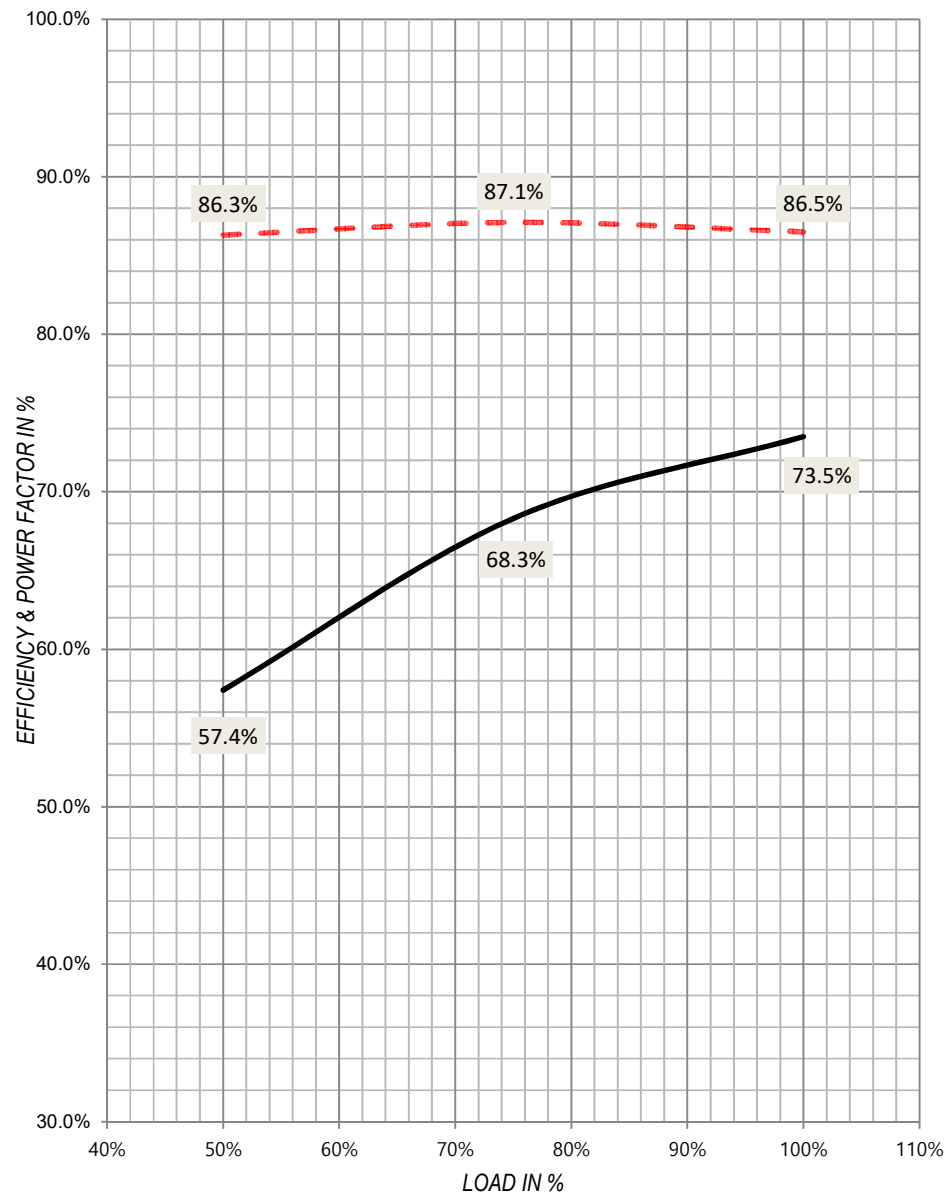
OUTPUT	1.5	HP	POLES	4	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	4.5	lb-ft	FULL LOAD CURRENT	4.4/2.2	A
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	740	%
BREAKDOWN TORQUE	300	%	SPEED (at FULL LOAD)	1745	RPM
GD ² of LOAD :	-	lb·ft ²	GD ² of MOTOR	0.136	lb·ft ²



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	4	P	
VOLTAGE	230/460	V	FREQUENCY	60	Hz	
FULL LOAD TORQUE	4.5	lb-ft	FULL LOAD CURRENT	4.4/2.2	A	
LOCKED ROTOR TORQUE	250	%	LOCKED-ROTOR CURRENT	740	%	
BREAKDOWN TORQUE	300	%	SPEED (at FULL LOAD)	1745	RPM	
GD ² of LOAD :	-	lb·ft ²	GD ² of MOTOR	0.136	lb·ft ²	



NOTE

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

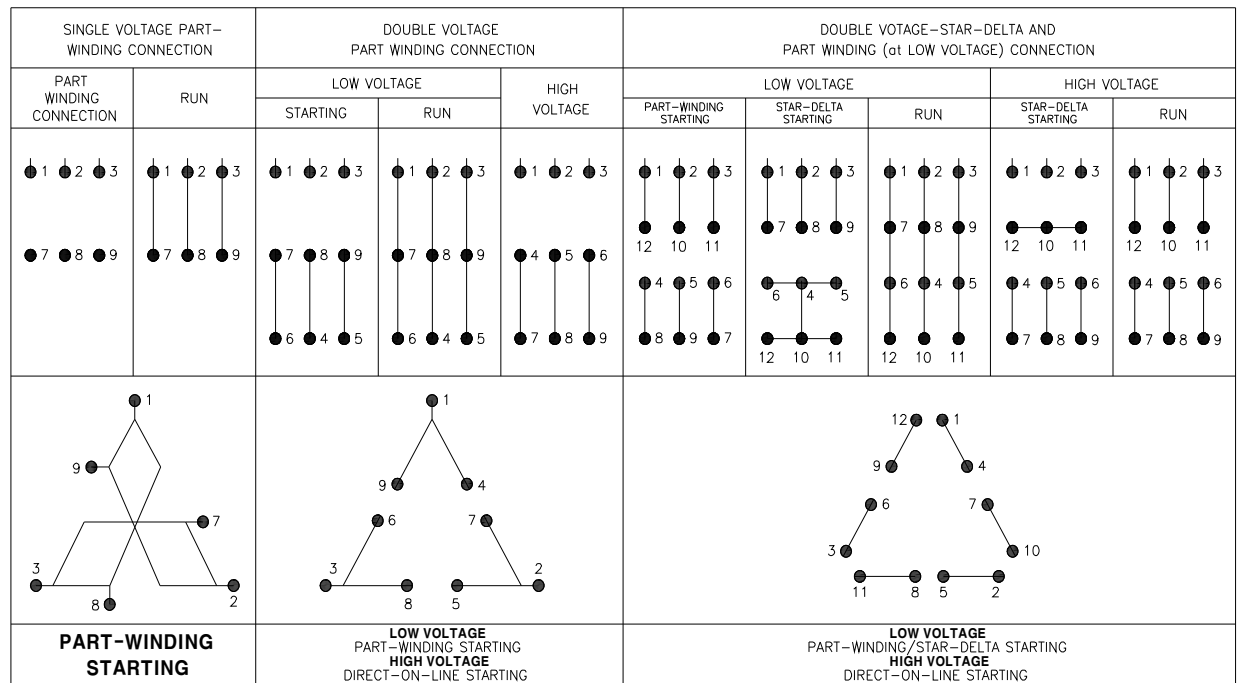
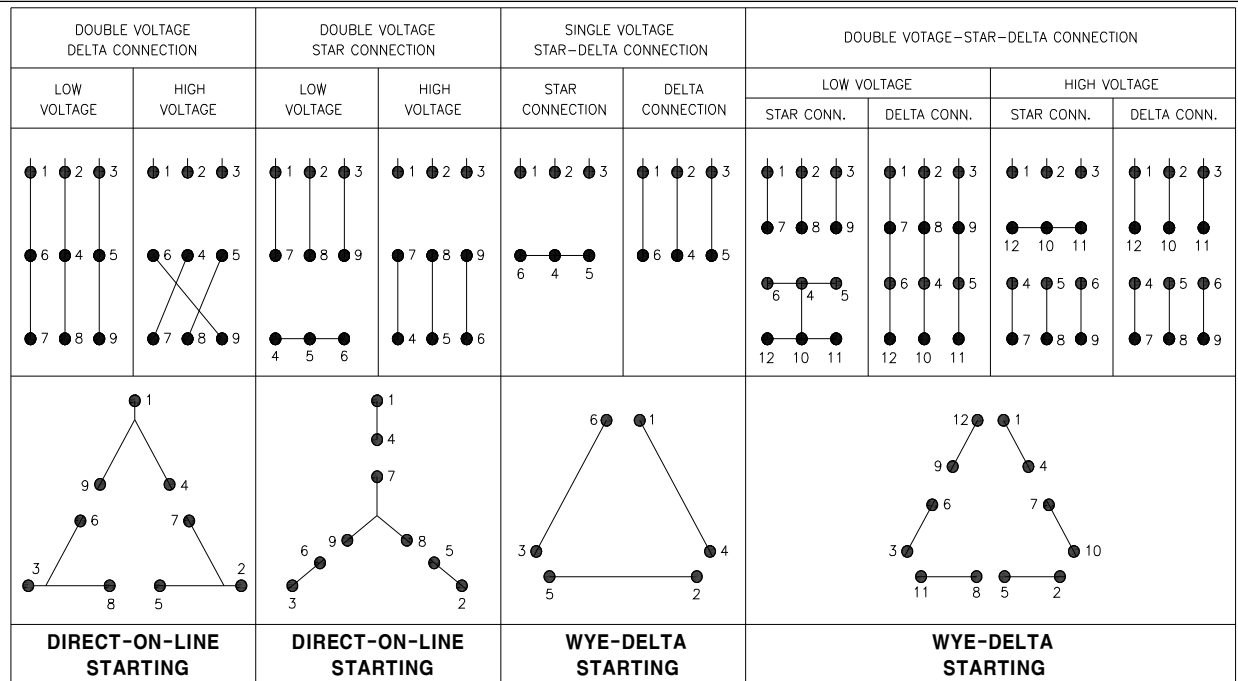
HICO

3 PHASE INDUCTION MOTOR

CONNECTION DIAGRAM

ISSUED

12/01/2024



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