

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

NAMEPLATE INFORMATION										
OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	KW									
15	11	1775	575	60	254TD	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.					
91.0	92.4	93.1	92.5	80.2	75.6	65.2

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
15.2	12.0	9.3	6.3	94.2	620

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
44.4	200	230	160	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)			
2.486	75	208	69	55	305

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

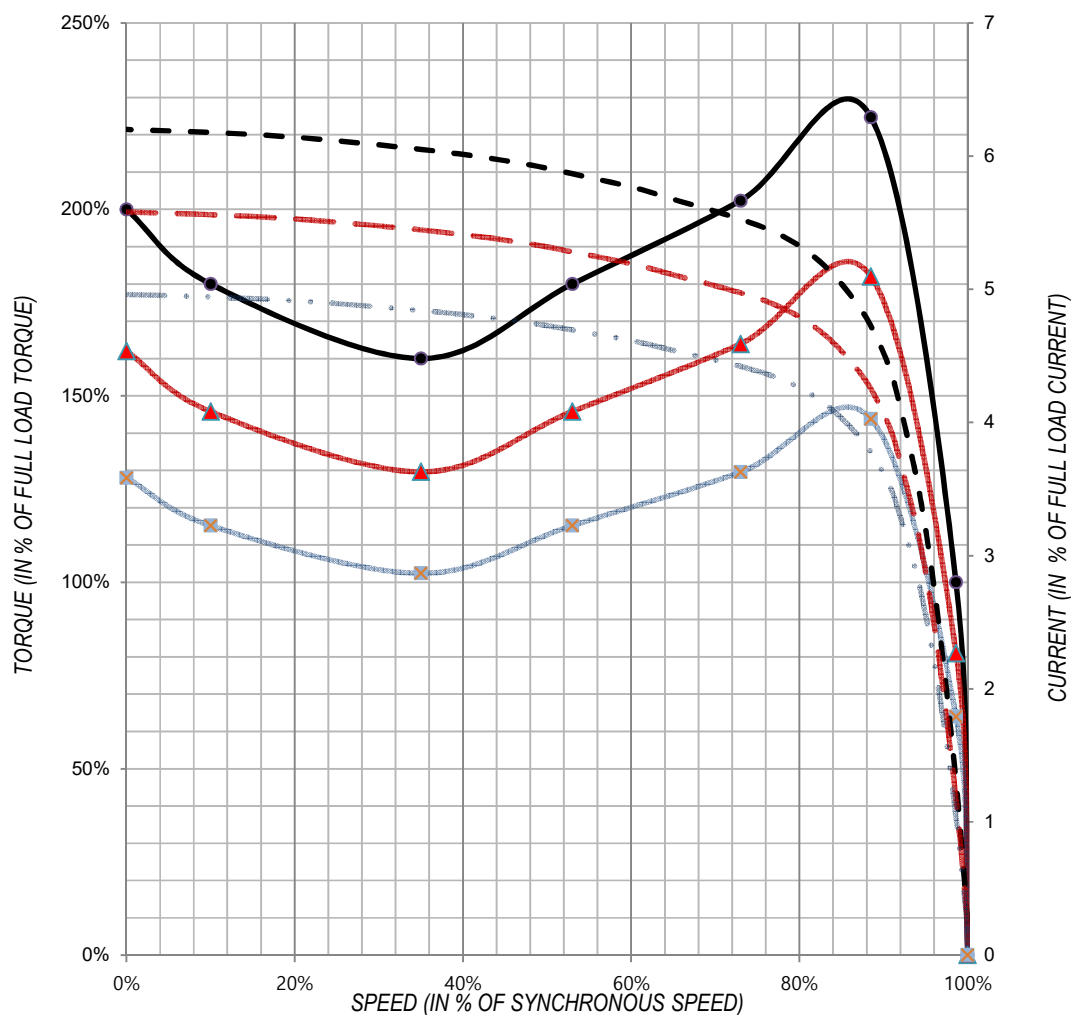
INVERTER DUTY DATA					
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0019~15	90~1800	0.111~44.4	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	1.5~15	180~1800	44.4	
CONSTANT HP	60~90	15	1800~2700	44.4~29.6	

DRAWING NO.	ES1AS185707	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	15	HP	POLES	4	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	44.4	lb-ft	FULL LOAD CURRENT	15.2	A
LOCKED ROTOR TORQUE	200	%	LOCKED-ROTOR CURRENT	620	%
BREAKDOWN TORQUE	230	%	SPEED (at FULL LOAD)	1775	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	2.486	lb-ft ²

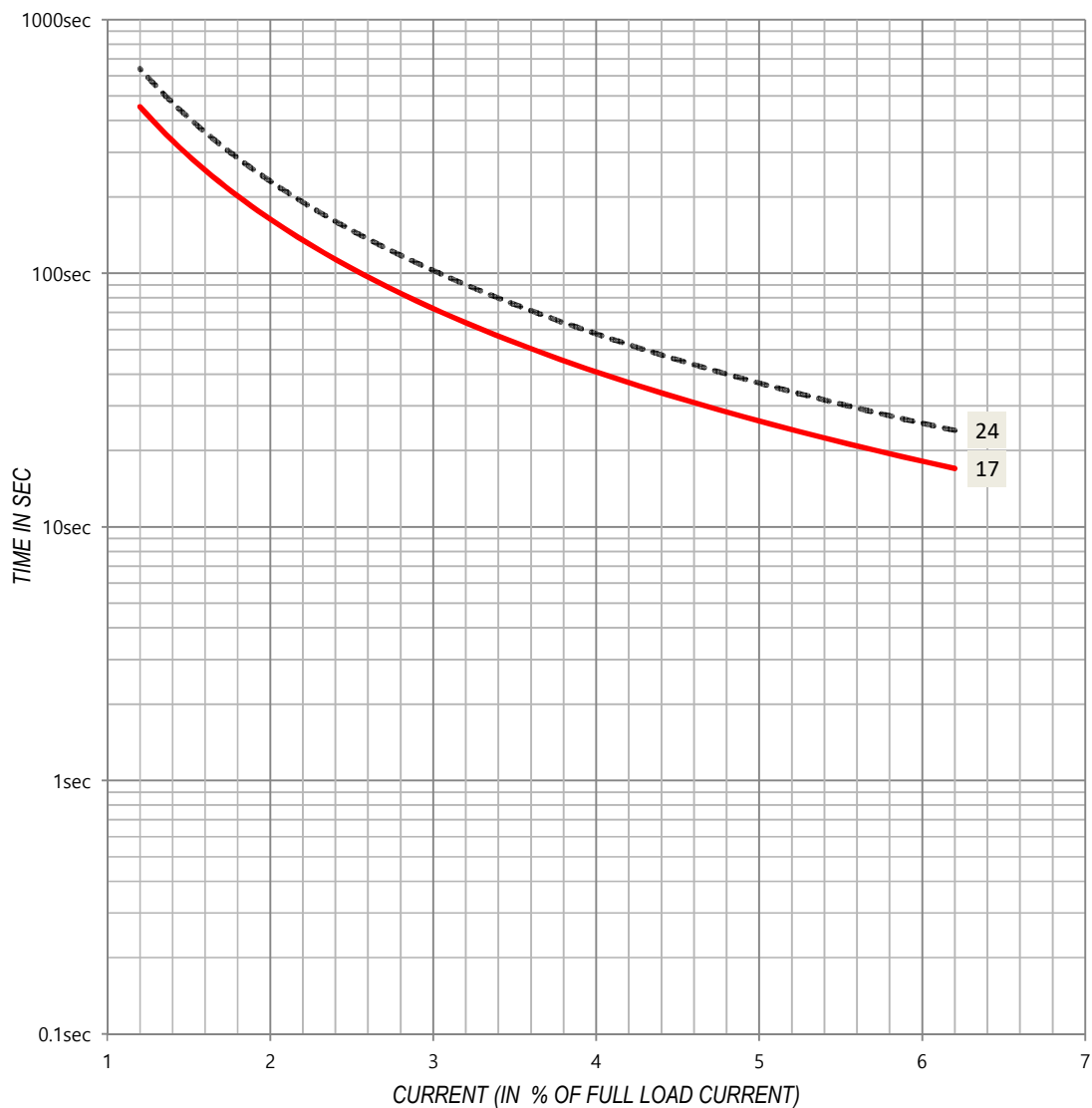


NOTE

- 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

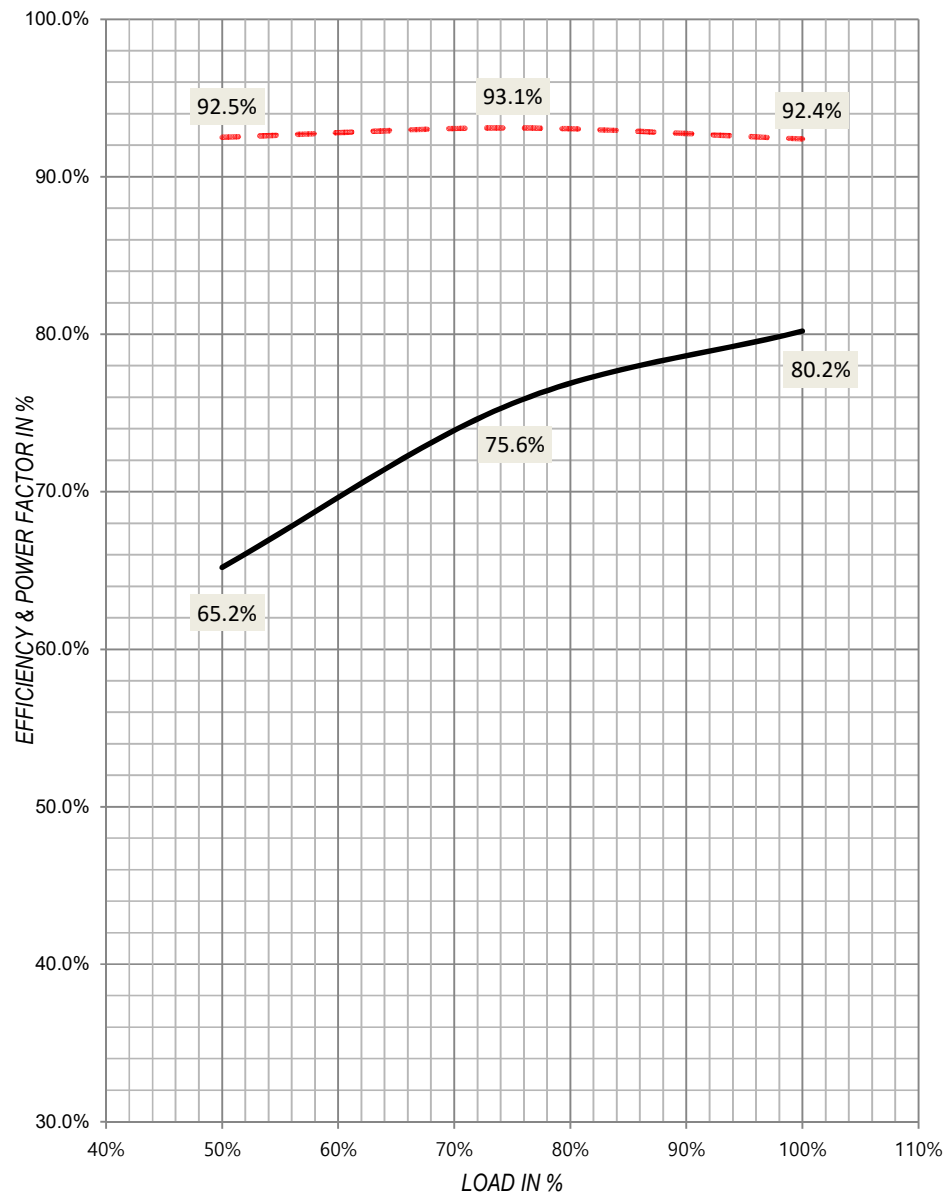
OUTPUT	15	HP	POLES	4	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	44.4	lb-ft	FULL LOAD CURRENT	15.2	A
LOCKED ROTOR TORQUE	200	%	LOCKED-ROTOR CURRENT	620	%
BREAKDOWN TORQUE	230	%	SPEED (at FULL LOAD)	1775	RPM
GD ² of LOAD :	-	lb·ft ²	GD ² of MOTOR	2.486	lb·ft ²



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	15	HP	POLES	4	P
VOLTAGE	575	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	44.4	lb-ft	FULL LOAD CURRENT	15.2	A
LOCKED ROTOR TORQUE	200	%	LOCKED-ROTOR CURRENT	620	%
BREAKDOWN TORQUE	230	%	SPEED (at FULL LOAD)	1775	RPM
GD ² of LOAD :	-	lb-ft ²	GD ² of MOTOR	2.486	lb-ft ²



NOTE

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

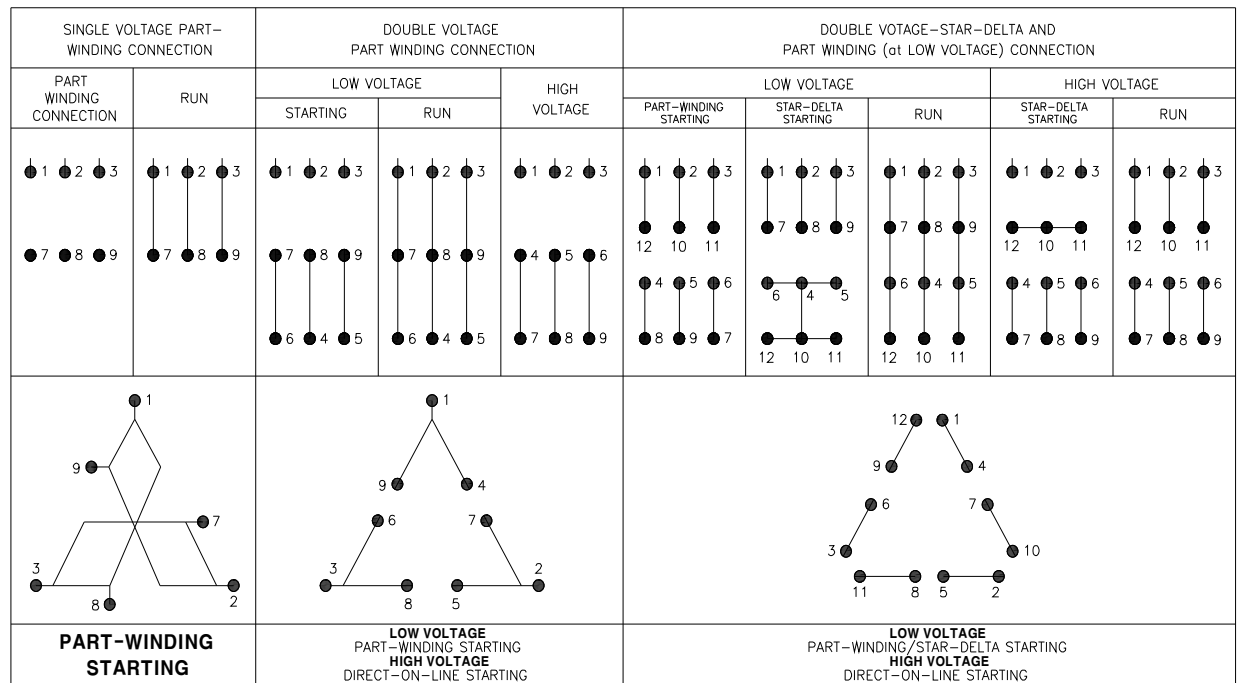
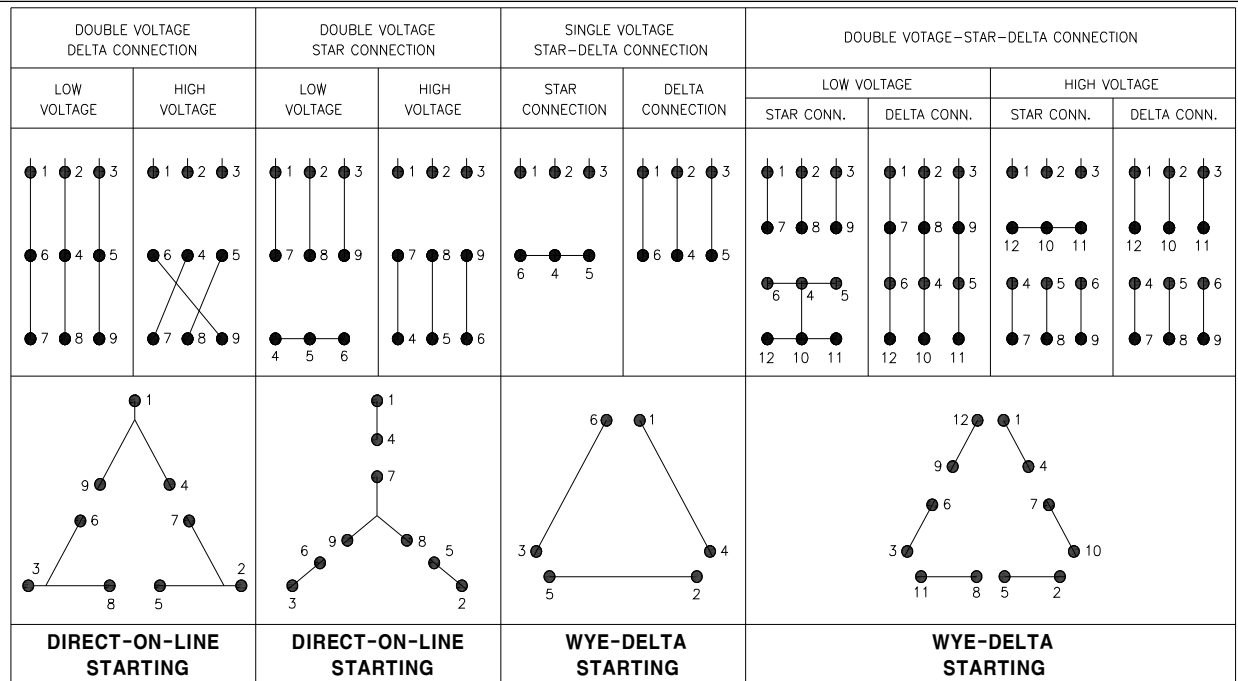
HICO

3 PHASE INDUCTION MOTOR

CONNECTION DIAGRAM

ISSUED

12/01/2024



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