HICO 3 PHASE INDUCTION MOTOR	**PERFORMANCE DATASHEET**	ISSUED	01/15/2026
		MODEL	1.5HP 2P

NAMEPLATE INFORMATION

OUTPUT		RPM	VOLTS	Hz	FRAME SIZE	ENCLOSURE TYPE	S.F.	INS. CALSS	RATING	AMB. TEMP.
HP	kW									
1.5	1.1	3475	230/460	60	143TC	TEFC	1.25	F	CONT.	40℃
TEMP. RISE	NEMA DESIGN	kVA CODE	Class/Division Hazardous Location							
B	B	L	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.					
81.5	84	84.1	82.3	88.8	85.2	76.7

CURRENT					
FULL LOAD AMPS	3/4 LOAD AMPS	1/2 LOAD AMPS	NO LOAD AMPS	STARTING CURRENT AMPS	STARTING CURRENT % FLC
3.8/1.9	2.9/1.5	2.2/1.1	1.2/0.6	36.1/18.1	950

* Usable at 208V: 4.1 AMPS (FULL LOAD)

* Usable at 1.5HP 50Hz 380V 2.3A 2830R.P.M. S.F. 1.0 EFF. 81.3% (IE2)

TORQUE				ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR % FLT	BREAK DOWN % FLT	PULL UP % FLT	COLD	HOT
2.3	330	370	298	2	1

MECHANICAL DATA

INERTIA			SOUND PRESSURE LEVEL @ 3 ft (dB(A))	PROTECTION GRADE	WEIGHT (Lbs)
ROTOR WR^2 ($lb\text{-}ft^2$)	NEMA LOAD WK^2 ($lb\text{-}ft^2$)	MAX ALLOWABLE WK^2 ($lb\text{-}ft^2$)			
0.077	2	6	67	55	59

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

INVERTER DUTY DATA

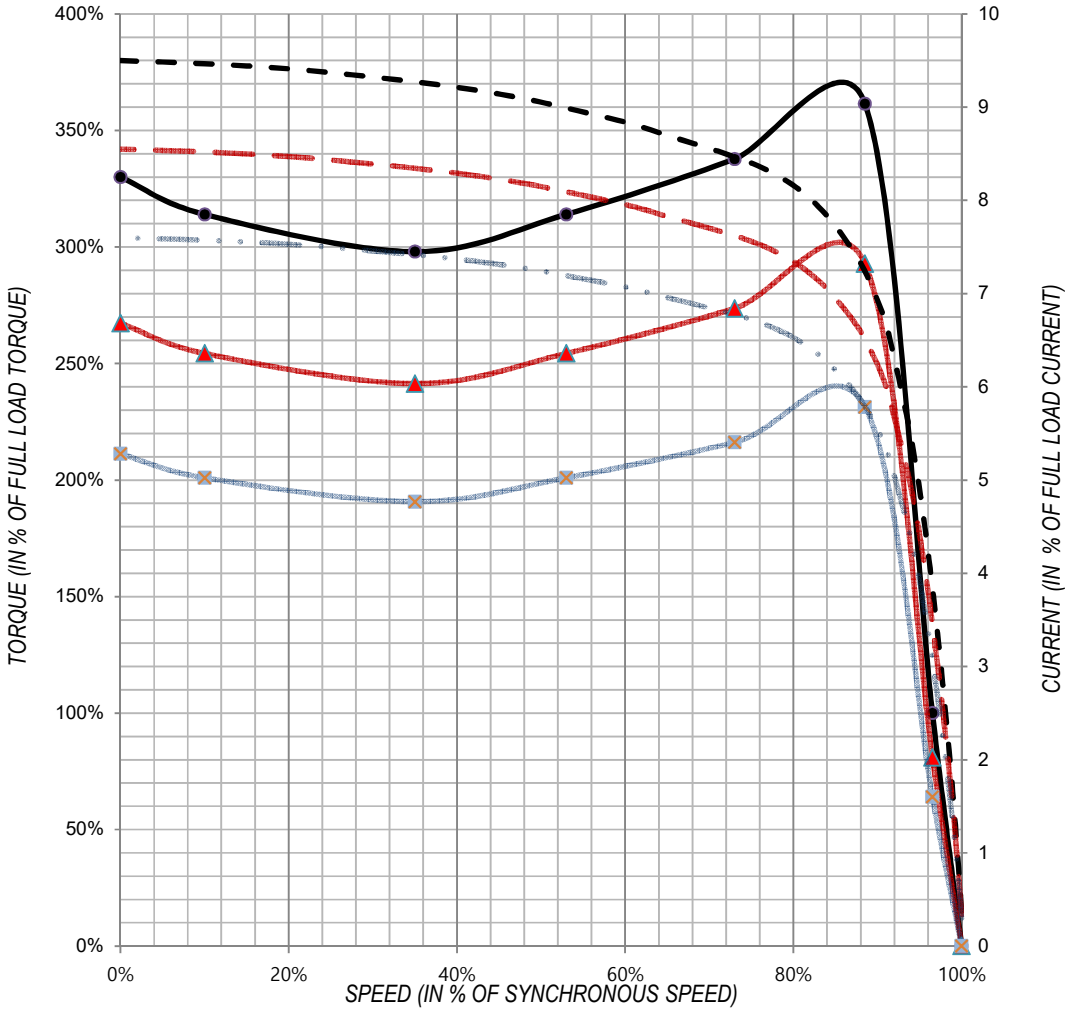
TYPE	HZ	HP	RPM	TORQUE(LB-FT)	NOTE
VARIABLE TORQUE	3~60	0.0002~1.5	180~3600	0.006~2.3	WITH TEMP. RISE CLASS F & S.F. 1.0
CONSTANT TORQUE	6~60	0.15~1.5	360~3600	2.3	
CONSTANT HP	60~90	1.5	3600~5400	2.3~1.533	

DRAWING NO.	ES1AS180501	**REVISION**	2.1

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	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	2.3	lb-ft	FULL LOAD CURRENT	3.8/1.9	A
LOCKED ROTOR TORQUE	330	%	LOCKED-ROTOR CURRENT	950	%
BREAKDOWN TORQUE	370	%	SPEED (at FULL LOAD)	3475	RPM
GD^2 of LOAD :	-	$lb{\cdot}ft^2$	GD^2 of MOTOR	0.077	$lb{\cdot}ft^2$



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

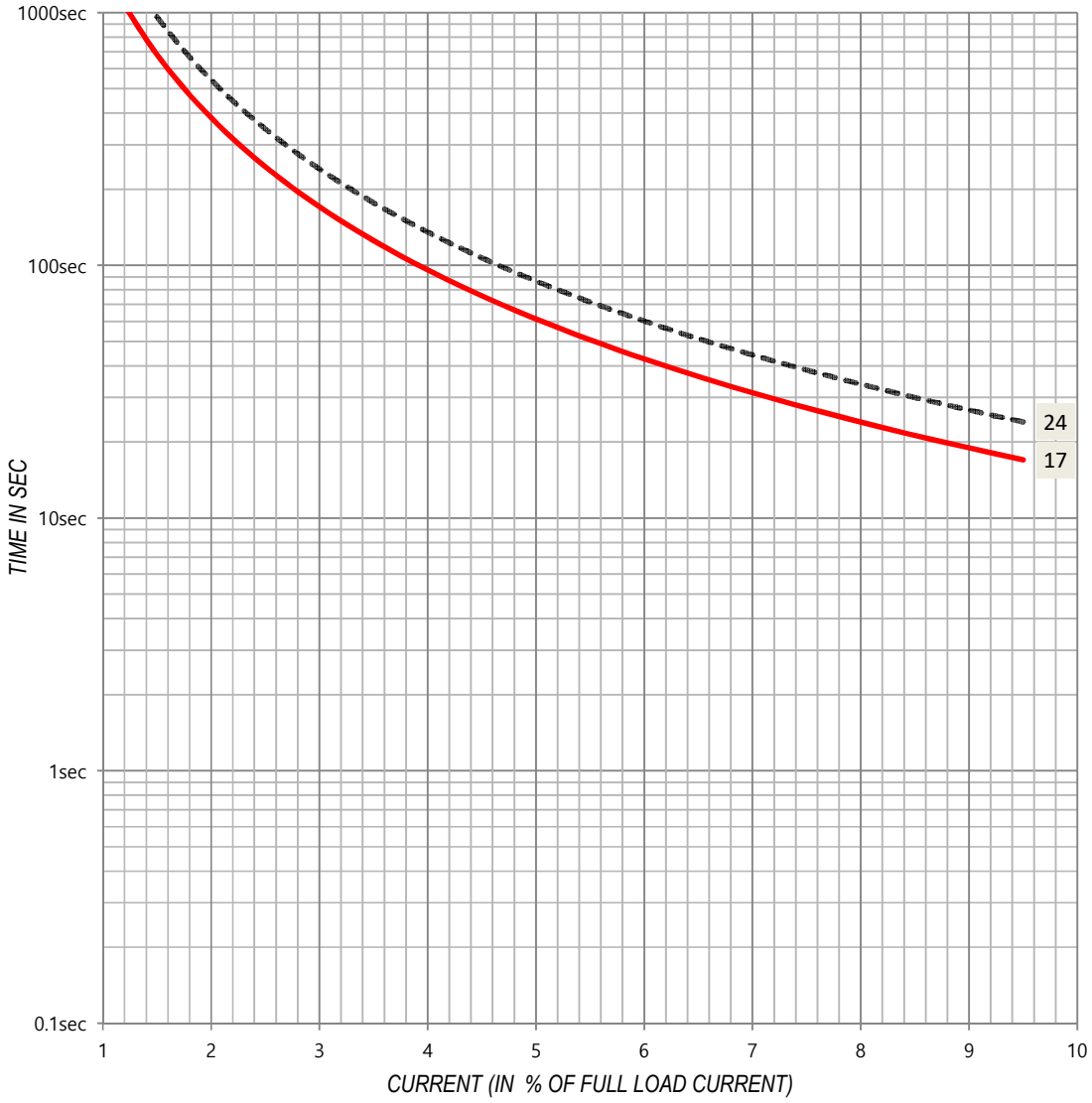
D : SPEED-CURRENT CURVE AT 100% RATED VOLTAGE

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	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	2.3	lb-ft	FULL LOAD CURRENT	3.8/1.9	A
LOCKED ROTOR TORQUE	330	%	LOCKED-ROTOR CURRENT	950	%
BREAKDOWN TORQUE	370	%	SPEED (at FULL LOAD)	3475	RPM
GD^2 of LOAD :	-	$lb{\cdot}ft^2$	GD^2 of MOTOR	0.077	$lb{\cdot}ft^2$



NOTE

A : THERMAL LIMIT CURVE AT HOT CONDITION

B : THERMAL LIMIT CURVE AT COLD CONDITION

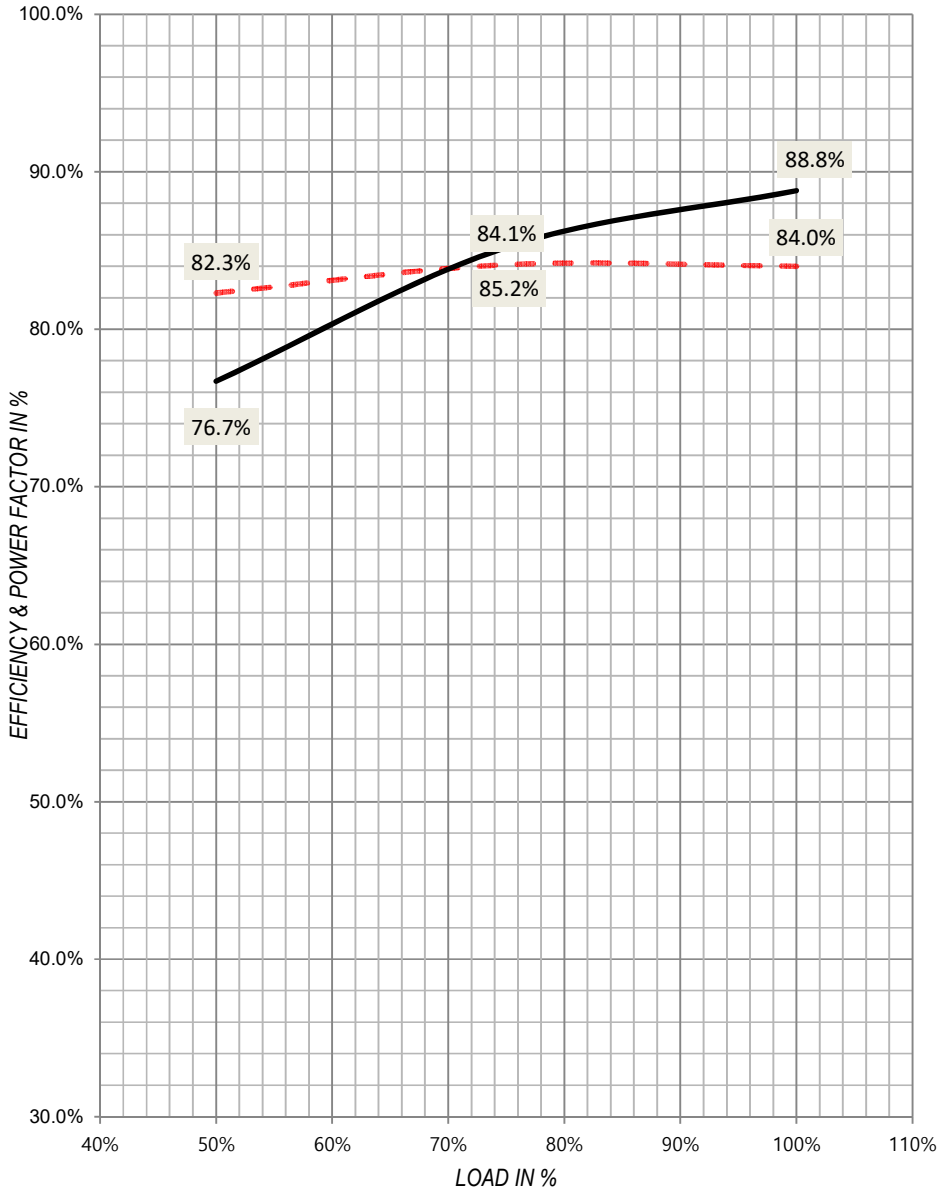
C : ※TIME-CURRENT CURVES(C,D,E) NEED BELOW DATA TO BE DRAWN

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	2	P
VOLTAGE	230/460	V	FREQUENCY	60	Hz
FULL LOAD TORQUE	2.3	lb-ft	FULL LOAD CURRENT	3.8/1.9	A
LOCKED ROTOR TORQUE	330	%	LOCKED-ROTOR CURRENT	950	%
BREAKDOWN TORQUE	370	%	SPEED (at FULL LOAD)	3475	RPM
GD^2 of LOAD :	-	$lb{\cdot}ft^2$	GD^2 of MOTOR	0.077	$lb{\cdot}ft^2$

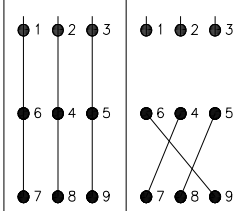
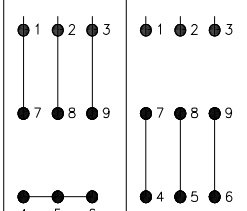
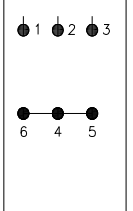
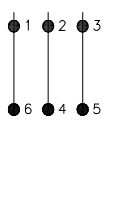
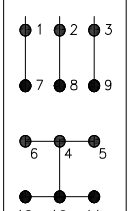
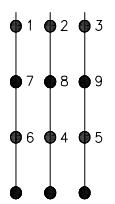
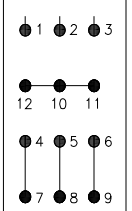
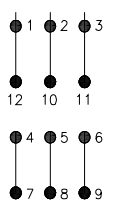
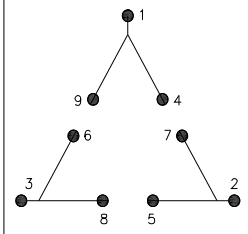
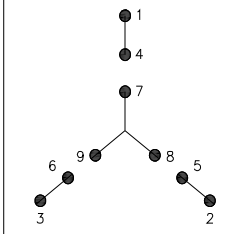
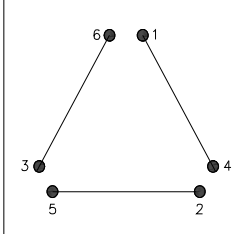
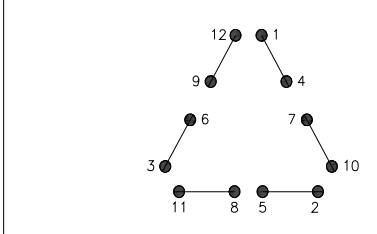


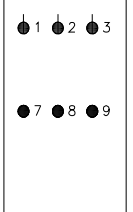
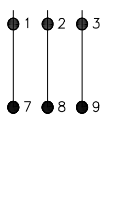
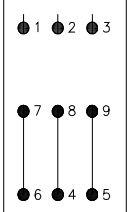
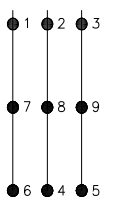
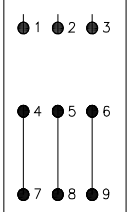
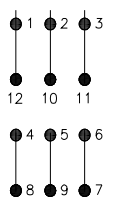
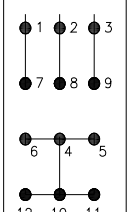
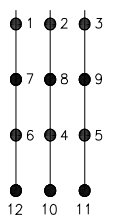
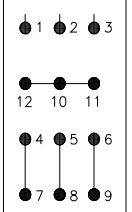
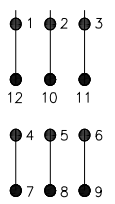
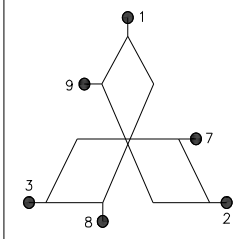
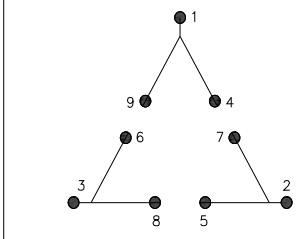
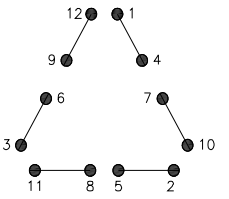
NOTE

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 VOTAGE–STAR–DELTA CONNECTION			
						LOW VOLTAGE		HIGH VOLTAGE	
LOW VOLTAGE	HIGH VOLTAGE	LOW VOLTAGE	HIGH VOLTAGE	STAR CONNECTION	DELTA CONNECTION	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 VOTAGE–STAR–DELTA AND PART WINDING (at LOW VOLTAGE) CONNECTION				
		LOW VOLTAGE		HIGH VOLTAGE	LOW VOLTAGE			HIGH VOLTAGE	
PART WINDING CONNECTION	RUN	STARTING	RUN		PART–WINDING STARTING	STAR–DELTA STARTING	RUN	STAR–DELTA STARTING	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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