



Customer information packet

IDNM3770T

7.5HP, 1760RPM, 3PH, 60HZ, 213TC, 0748M, TENV

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	213TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	17.800 A @ 230.0 V 8.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.9 a

Part detail

Revision	J
Type	AC
Mech. spec.	07J135
Base	
Status	PRD/A
Elec. spec.	07WGX647
Layout	07LYJ135
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-14-2014

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.40 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4009L									
CAT.NO.	IDNM3770T								
SPEC.	07J135X647G1								
FRAME	213TC		H.P.	7.5 TE					
VOLTS	230/460 1000:1 CT/VT								
MAG. CUR.	7.2/3.6			F.L. AMPS			17.8/8.9		
R.P.M.	1760		R.P.M. MAX		6000				
HZ.	60		PH.	3	CLASS	F			
SER.F.	1.00		DES.	B	SL HZ		1.33		
NEMA NOM. EFF.	92.4		WK2	1.18					
BLOWER		V		PH		HZ		AMPS	
RATING	40C AMB-CONT								
DE	6307		ODE	6206					
CC	010A	SN							
	1.5:1 CHP PWM								

NP VOLTS	230/460	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)					
NP AMPS	17.8/8.9	Base Volt	460	R1	0.712	X1	2.680
HP	7.5	NL AMPS	3.53	R2	0.463	X2	2.170
BASE SPEED	1762	Slip (HZ)	1.27			XM	70.300
PHASE/HZ	3/60	WK ² (lb-ft ²)	1.180				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1762	7.5	22.4	460	60	9.1
Max Speed	2642	7.5	14.9	460	90	8.8
CT Min Speed	1,762	0.008	22.4	0.46	0.06	9.1

Load Performance at Base Speed

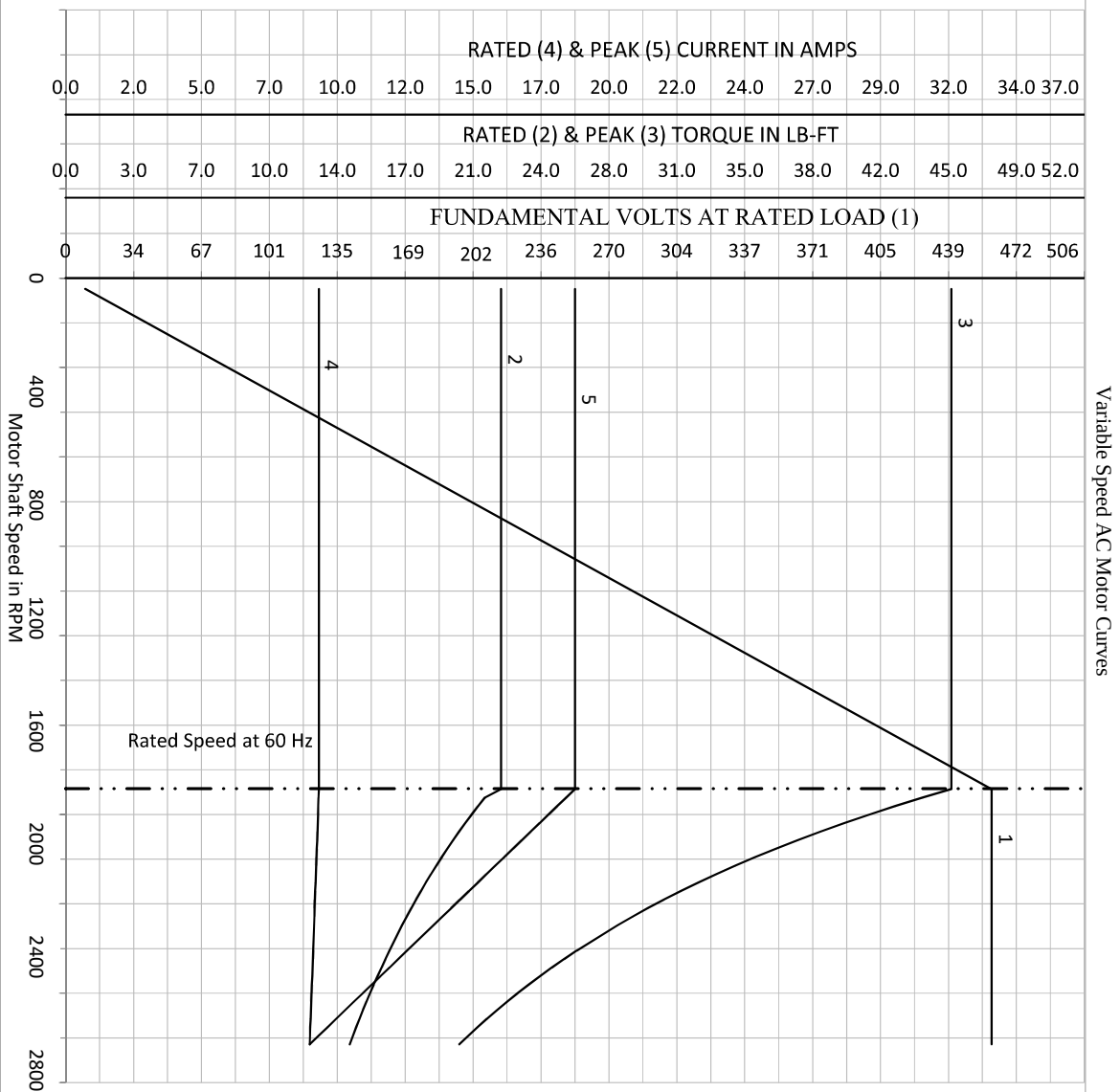
	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	3.5
1/4	1790	1.8	5.4	460	60	4.1
1/2	1781	3.8	11.1	460	60	5.4
3/4	1771	5.6	16.7	460	60	7.1
Full Load	1762	7.5	22.4	460	60	9.1
O/L	1727	15.0	45.6	460	60	18.3

Blower Data	Volts	Ph/Hz	FL Amps	L R Amps	Frame	CFM

Remarks: Calculated Data

DR BY USBRRANI				A-C MOTOR		07WGx647
CK BY CD				PERFORMANCE		
APP BY USBRRANI				CURVES		
DATE 11/1/2024				Record: 98905		

NP VOLTS	230/460		WYE CONN EQ. CKT OHMS PER PHASE (BASE RATING, 20C)		
NP AMPS	17.8/8.9	Base Volt	R1	0.712	X1 2.680
HP	7.5	NL AMPS	R2	0.463	X2 2.170
BASE SPEED	1762	Slip (HZ)			XM 70.300
PHASE/HZ	3/60	WK ² (lb-ft ²)			
					1.180



Calculated Data
Data Valid For Nameplate Speed Range only

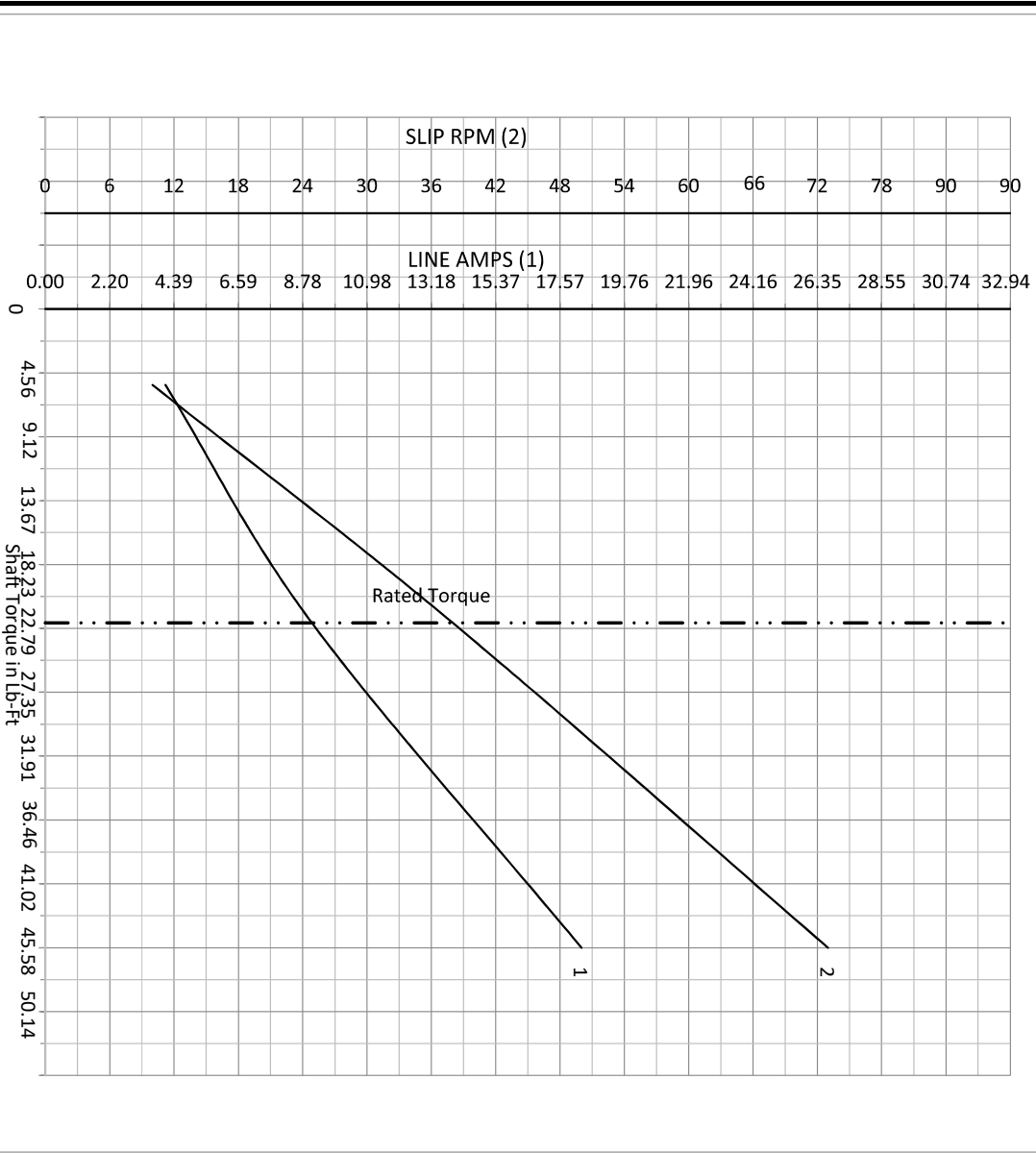
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DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 11/1/2024

07WGX647
A-C MOTOR
PERFORMANCE
CURVES
Record: 98905

NP VOLTS	230/460	0	0	WYE CONN. EQ. CKT. OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	17.8/8.9	Base Volt	460	R1	0.712	X1	2.680
HP	7.5	NL AMPS	3.53	R2	0.463	X2	2.170
BASE SPEED	1762	Slip (HZ)	1.27	XM			
PHASE/HZ	3/60	WK2 (lb-ft2)	1.180	70.300			

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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