



Customer information packet

36G271T031G16

5HP, 1750RPM, 3PH, 60HZ, 184T, 3644M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.600 A @ 208.0 V 6.500 A @ 460.0 V 13.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	H
Type	AC
Mech. spec.	36G271
Base	
Status	PRD/A
Elec. spec.	36WGT031
Layout	36LYG271
Eff. date	06-03-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-28-2009

Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3644M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.05 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP1259L									
CAT.NO.									
SPEC.	36G271T031G16								
HP	5								
VOLTS	230/460								
AMP	13/6.5								
RPM	1750								
FRAME	184T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CL	F		
NEMA-NOM-EFF	90.2	PF	80						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6205					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 10561

Typical performance - not guaranteed values

Winding: 36WGT031-R001				Type: 3644M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5		Full Load Torque		15.1 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		13/6.5		Breakdown Torque		59.57 LB-FT	
R.P.M.		1750		Pull-up Torque		25.39 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		K	
Service Factor (S.F.)		1.15		Starting Current		54.47 A	
NEMA Nom. Eff.		90.2		Power Factor		80	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	73	80	84	86	82
Efficiency	84.8	89.6	90.3	90.2	88.9	87.7	90
Speed	1790	1779	1767	1755	1742	1725	1746
Line amperes	3.62	4.36	5.37	6.55	7.9	9.67	7.3

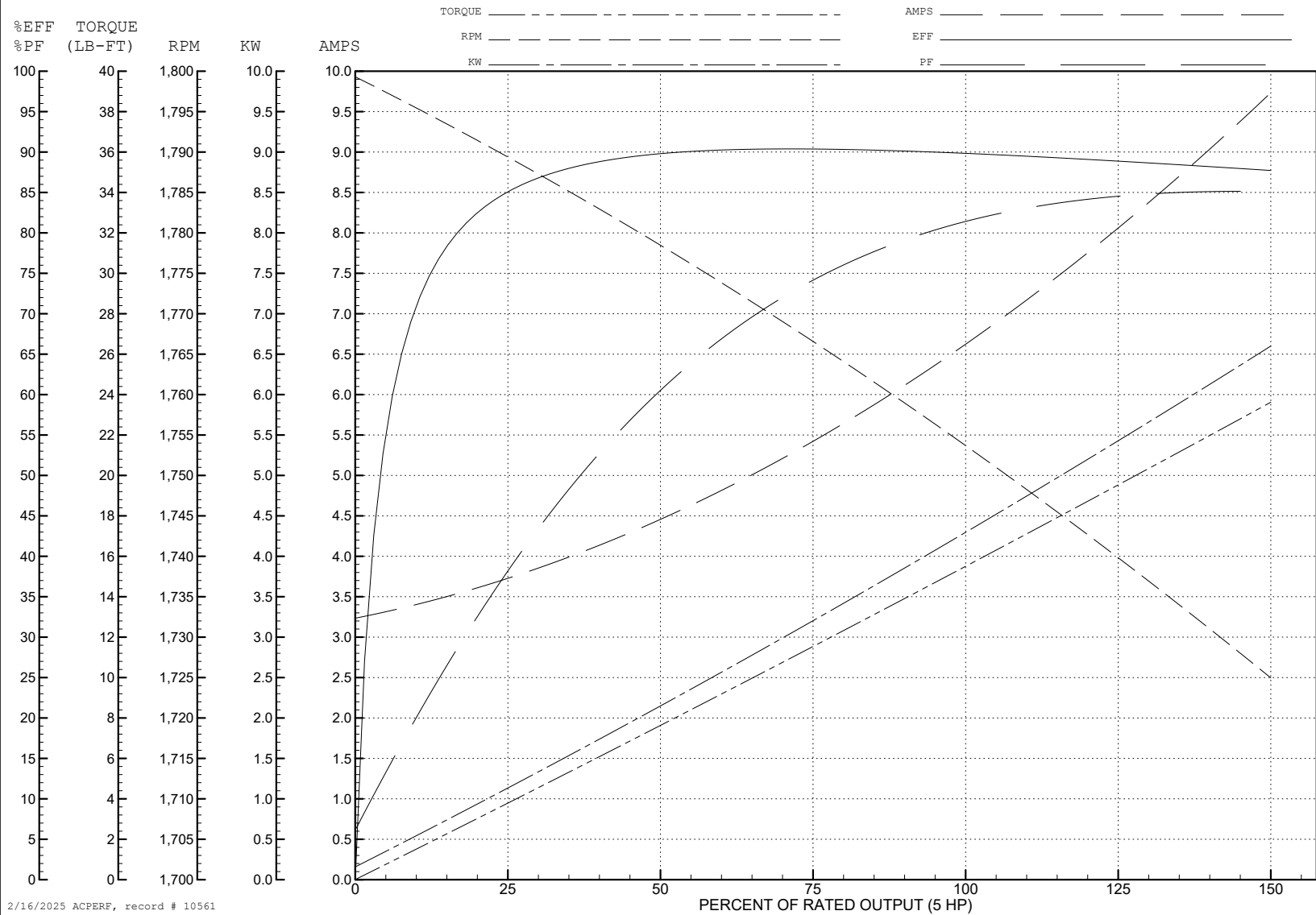
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WINDING # 36WGT031

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3644M

TORQUES (LB-FT) : PO=59.57 PU=25.39 LR=38.53 LRA=54.47



AC Induction Motor Performance Data

Record # 38488

Typical performance - not guaranteed values

Winding: 36WGT031-R001			Type: 3644M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		15.1 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		13/6.5	Breakdown Torque		59.57 LB-FT		
R.P.M.		1750	Pull-up Torque		25.39 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		38.53 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		54.47 A
Service Factor (S.F.)		1.15	No-load Current		3.32 A		
NEMA Nom. Eff.		90.2	Power Factor	80	Line-line Res. @ 25°C		2.26 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		54°C
S.F. Amps					Temp. Rise @ S.F. Load		65°C
					Locked-rotor Power Factor		51.7
					Rotor inertia		0.409 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	73	80	84	86	81
Efficiency	84.8	89.6	90.3	90.2	88.9	87.7	89.6
Speed	1790	1779	1767	1755	1742	1725	1748
Line amperes	3.62	4.36	5.37	6.55	7.9	9.67	7.41

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WINDING # 36WGT031

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3644M

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