



Customer information packet

VEM31104

.33HP, 1725RPM, 3PH, 60HZ, 56C, 3416M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56C
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	.330 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	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.700 A @ 460.0 V 1.400 A @ 230.0 V 1.700 A @ 208.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a

Part detail

Revision	K
Type	AC
Mech. spec.	34F012
Base	
Status	PRD/A
Elec. spec.	34WGS936
Layout	34LYF012
Eff. date	12-31-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-02-2014

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.22 IN
Power Factor	66
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3155L										
CAT.NO.	VEM31104									
SPEC.	34F012S936G1									
HP	.33									
VOLTS	230/460									
AMP	1.4/.7									
RPM	1725									
FRAME	56C		HZ	60		PH	3			
SER.F.	1.35	CODE	N	DES	B	CL	B			
F.L. AVG. EFF.	73.4	PF	66							
RATING	40C AMB-CONT									
CC										
DE	6203		ODE	6203						
ENCL	OPEN	SN								
	SFA 1.6/.8									

AC Induction Motor Performance Data

Record # 47464

Typical performance - not guaranteed values

Winding: 34WGS936-R002			Type: 3416M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.33	Full Load Torque		1.007 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		1.4/.7	Breakdown Torque		4.56 LB-FT	
R.P.M.		1725	Pull-up Torque		3.18 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		3.82 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		4.74 A	
Service Factor (S.F.)		1.35	No-load Current		0.445 A	
NEMA Nom. Eff.		73.4 Power Factor	Line-line Res. @ 25°C		43.915 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		18°C	
S.F. Amps		1.6/.8	Temp. Rise @ S.F. Load		24°C	
			Locked-rotor Power Factor		58	
			Rotor inertia		0.0381 LB-FT2	

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	45	57	66	73	78	75
Efficiency	55.9	69.8	74.8	76.7	76.9	76.2	76.6
Speed	1785.9	1772.3	1758.5	1743.2	1726.8	1709.1	1720
Line amperes	0.458	0.497	0.55	0.617	0.696	0.787	0.732

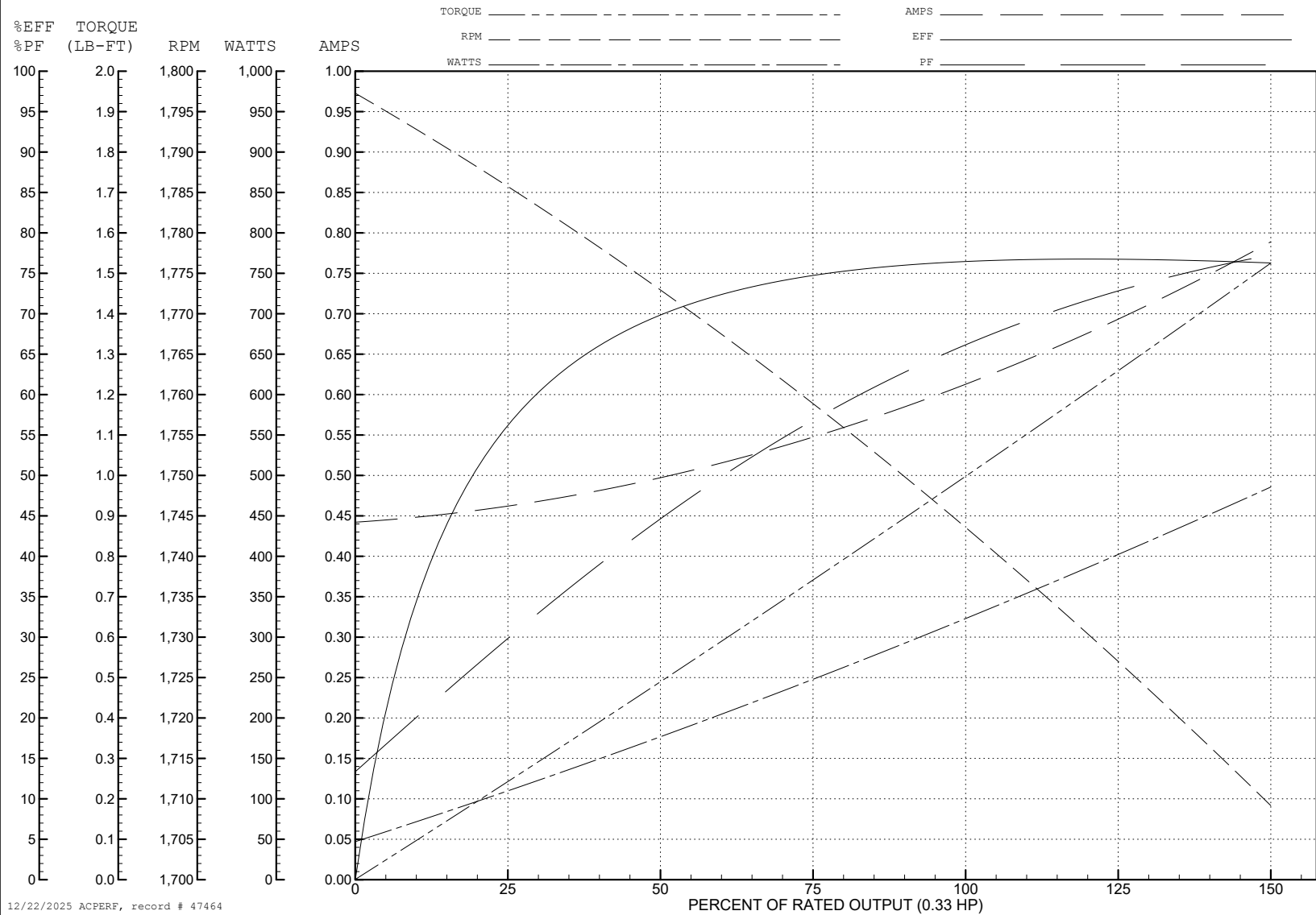
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WINDING # 34WGS936

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

TORQUES (LB-FT) : PO=4.56 PU=3.18 LR=3.82 LRA=4.74



AC Induction Motor Performance Data

Record # 49379

Typical performance - not guaranteed values

Winding: 34WGS936-R002				Type: 3416M		Enclosure: OPEN		
Nameplate Data				230 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.33		Full Load Torque		1.01 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		1.4/.7		Breakdown Torque		4.56 LB-FT		
R.P.M.		1725		Pull-up Torque		3.18 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		3.82 LB-FT		
NEMA Design Code		B		KVA Code	N		Starting Current	9.48 A
Service Factor (S.F.)		1.35		No-load Current		0.89 A		
NEMA Nom. Eff.		73.4	Power Factor	66		Line-line Res. @ 25°C		10.5 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		18°C
S.F. Amps		1.6/.8		Temp. Rise @ S.F. Load		23°C		
				Locked-rotor Power Factor		58.4		
				Rotor inertia		0.0381 LB-FT2		

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	45	57	66	73	78	75
Efficiency	55.8	69.9	74.8	77	76.7	76.4	76.6
Speed	1786	1772	1759	1743	1727	1709	1720
Line amperes	0.915	0.993	1.1	1.23	1.39	1.57	1.46

ABB Motors and Mechanical Inc.

WINDING # 34WGS936

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1725 RPM 230 V 3416M

TORQUES (LB-FT) : PO=4.56 PU=3.18 LR=3.82 LRA=9.48

