



Customer information packet

EM31115

1HP, 3450RPM, 3PH, 60HZ, 56, 3420M, ODP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	56
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	1.600 A @ 460.0 V 3.200 A @ 230.0 V 3.500 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a

Part detail

Revision	J
Type	AC
Mech. spec.	34B061
Base	
Status	PRD/A
Elec. spec.	34WG3226
Layout	34LYB061
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	02-26-2014

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3420M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	10.88 IN
Power Factor	82
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	1.25
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	3450 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

NP3155LUA												
CAT.NO.	EM31115											
SPEC.	34B061-3226G1											
HP	1											
VOLTS	230/460											
AMPS	3.2/1.6											
RPM	3450											
FRAME	56		HZ	60			PH	3				
SF	1.25		CODE	L	DES	B	CLASS	F				
F.L. AVG. EFF.	77		PF	82								
RATING	40C AMB-CONT											
CC												
DE	6203		ODE	6203								
ENCL	ODP	SN										
USABLE AT	50HZ 1HP 190/380V 3.4/1.7A										SF1.0	

AC Induction Motor Performance Data

Record # 47459

Typical performance - not guaranteed values

Winding: 34WG3226-R047			Type: 3420M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		1.52 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.2/1.6	Breakdown Torque		7.7 LB-FT		
R.P.M.		3450	Pull-up Torque		5.67 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		7.34 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		14.7 A
Service Factor (S.F.)		1.25	No-load Current		0.858 A		
NEMA Nom. Eff.		77	Power Factor	82	Line-line Res. @ 25°C		12.852 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		19°C	
S.F. Amps		4/2		Temp. Rise @ S.F. Load		23°C	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	60	73	80	85	88	85
Efficiency	61.1	74	78.8	80.8	81.4	81	81.4
Speed	3567.7	3546.3	3520	3493.8	3464.5	3431.1	3464
Line amperes	0.936	1.07	1.24	1.46	1.7	2	1.7

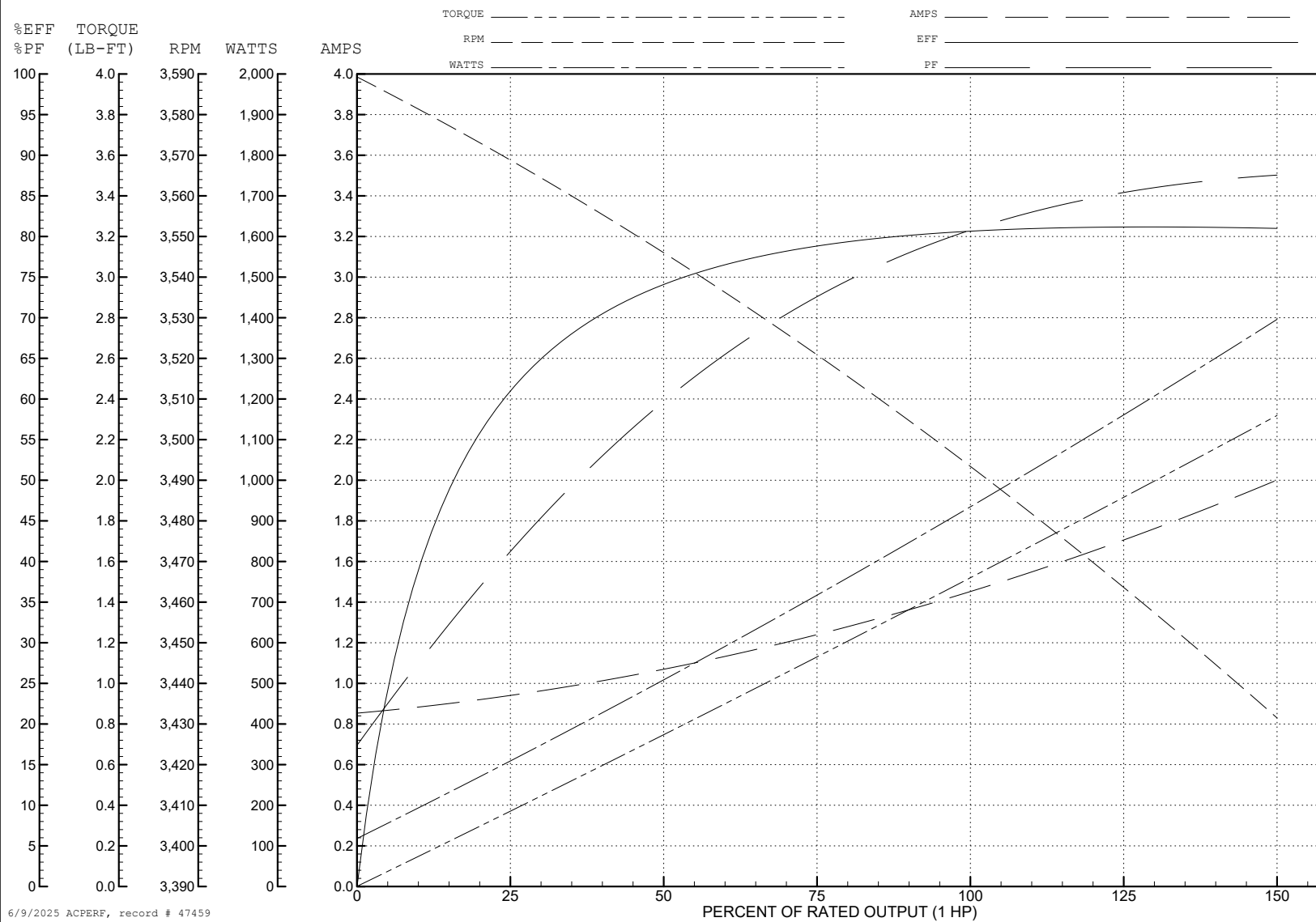
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WINDING # 34WG3226

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3420M

TORQUES (LB-FT): PO=7.7 PU=5.67 LR=7.34 LRA=14.7



AC Induction Motor Performance Data

Record # 49390

Typical performance - not guaranteed values

Winding: 34WG3226-R047			Type: 3420M		Enclosure: OPEN			
Nameplate Data			230 V, 60 Hz: Low Voltage Connection					
Rated Output (HP)		1	Full Load Torque		1.52 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		3.2/1.6	Breakdown Torque		7.7 LB-FT			
R.P.M.		3450	Pull-up Torque		5.67 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		7.34 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		29.4 A	
Service Factor (S.F.)		1.25	No-load Current		1.716 A			
NEMA Nom. Eff.		77	Power Factor		82	Line-line Res. @ 25°C		3.213 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		19°C	
S.F. Amps		4/2	Temp. Rise @ S.F. Load		23°C			
			Locked-rotor Power Factor		7			
			Rotor inertia		0.01 lb-ft²			

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	60	73	80	85	88	85
Efficiency	61.1	74	78.8	80.8	81.4	81	81.4
Speed	3567.7	3546.3	3520	3493.8	3464.5	3431.1	3464
Line amperes	1.872	2.14	2.48	2.92	3.4	4	3.4

ABB Motors and Mechanical Inc.

WINDING # 34WG3226

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 230 V 3420M

TORQUES (LB-FT): PO=7.7 PU=5.67 LR=7.34 LRA=29.4

