



Customer information packet

EM31108

.5HP, 1725RPM, 3PH, 60HZ, 56, 3424M, 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	.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	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	.800 A @ 460.0 V 1.600 A @ 230.0 V 2.100 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.2 %
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	0.8 a

Part detail

Revision	H
Type	AC
Mech. spec.	34B061
Base	
Status	PRD/A
Elec. spec.	34WGX110
Layout	34LYB061
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-26-2014

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
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	3424M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.75 IN
Power Factor	78
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	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.	EM31108									
SPEC.	34B061X110G1									
HP	.5									
VOLTS	230/460									
AMP	1.6/.8									
RPM	1725									
FRAME	56		HZ	60		PH	3			
SER.F.	1.25	CODE	J	DES	B	CL	F			
F.L. AVG. EFF.	78.2	PF	78							
RATING	40C AMB-CONT									
CC										
DE	6203		ODE	6203						
ENCL	ODP	SN								
	SFA 2/1									

AC Induction Motor Performance Data

Record # 44885

Typical performance - not guaranteed values

Winding: 34WGX110-R010			Type: 3424M		Enclosure: OPEN	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.5		Full Load Torque		1.57 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		1.6/.8		Breakdown Torque		5.24 LB-FT
R.P.M.		1725		Pull-up Torque		3.8 LB-FT
Hz		60 Phase		Locked-rotor Torque		5.12 LB-FT
NEMA Design Code		B KVA Code		Starting Current		6.16 A
Service Factor (S.F.)		1.25		No-load Current		0.474 A
NEMA Nom. Eff.		78.2 Power Factor		Line-line Res. @ 25°C		30.994 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		25°C
S.F. Amps		1.8/.9		Temp. Rise @ S.F. Load		34°C
				Locked-rotor Power Factor		53
				Rotor inertia		0.0572 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	55	68	76	80	83	80
Efficiency	67.3	76.6	78.9	78.7	77.2	74.9	77.2
Speed	1782.6	1766.4	1749.5	1729.5	1707.4	1683.2	1707
Line amperes	0.509	0.586	0.687	0.815	0.971	1.14	0.971

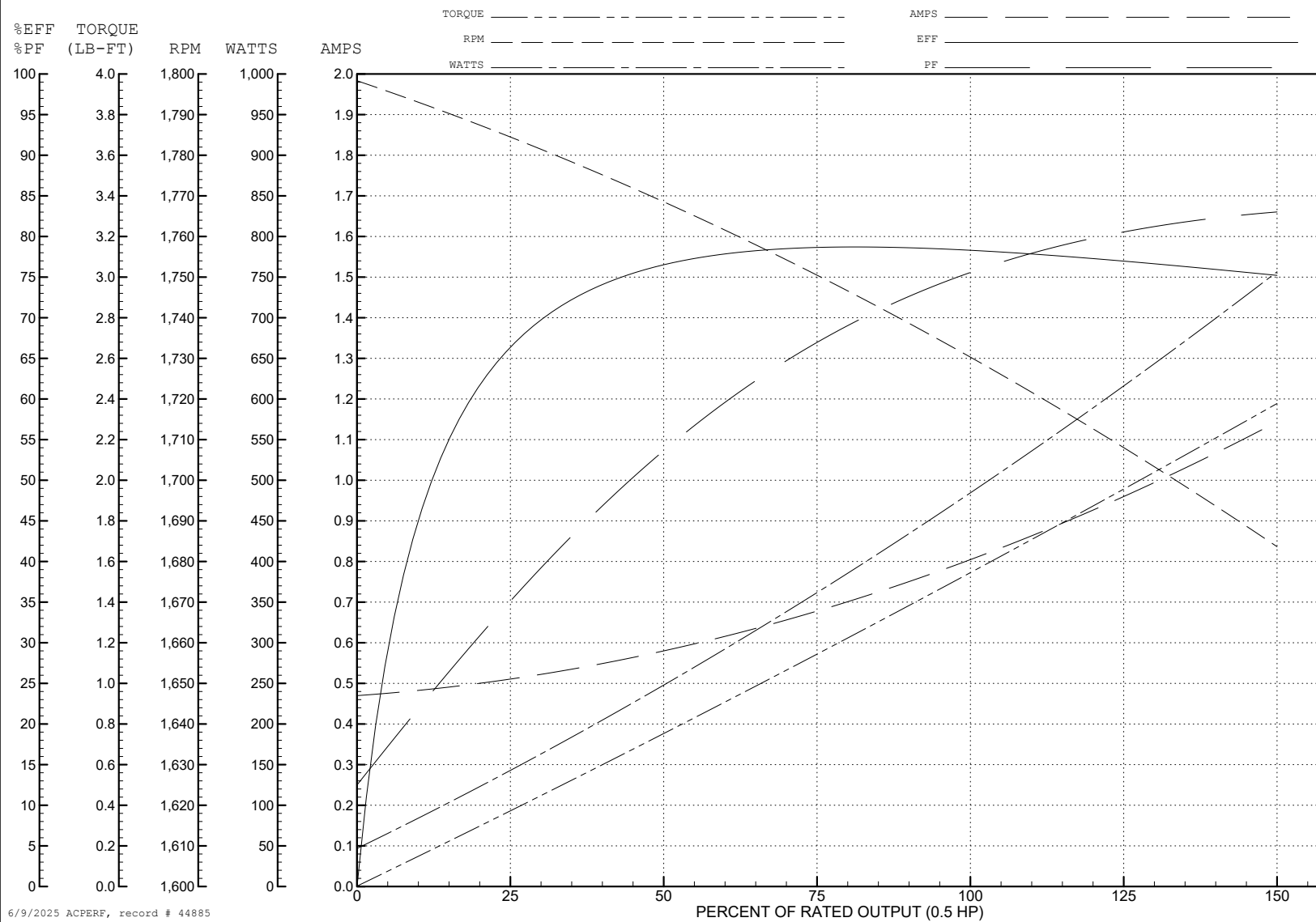
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WINDING # 34WGX110

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3424M

TORQUES (LB-FT): PO=5.24 PU=3.8 LR=5.12 LRA=6.16



AC Induction Motor Performance Data

Record # 49389

Typical performance - not guaranteed values

Winding: 34WGX110-R010			Type: 3424M		Enclosure: OPEN	
Nameplate Data				230 V, 60 Hz: Low Voltage Connection		
Rated Output (HP)		.5		Full Load Torque		1.57 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		1.6/.8		Breakdown Torque		5.24 LB-FT
R.P.M.		1725		Pull-up Torque		3.8 LB-FT
Hz		60	Phase	Locked-rotor Torque		5.12 LB-FT
NEMA Design Code		B		Starting Current		12.3 A
Service Factor (S.F.)		1.25		No-load Current		0.948 A
NEMA Nom. Eff.		78.2	Power Factor	Line-line Res. @ 25°C		7.28 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		25°C
S.F. Amps		2/1		Temp. Rise @ S.F. Load		31°C
				Locked-rotor Power Factor		52.9
				Rotor inertia		0.0572 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	56	68	76	80	83	80
Efficiency	67.5	76.4	78.6	78.6	77.1	75.1	77.1
Speed	1783	1766	1750	1730	1707	1683	1707
Line amperes	1.02	1.17	1.37	1.63	1.94	2.28	1.94

ABB Motors and Mechanical Inc.

WINDING # 34WGX110

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1725 RPM 230 V 3424M

TORQUES (LB-FT): PO=5.24 PU=3.8 LR=5.12 LRA=12.3

