

ABB BALDOR RELIANCE III

Customer information packet

CFM3136A

.5HP, 1175RPM, 3PH, 60HZ, 56YZ, 3516M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56YZ
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	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	60 °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	1.250 A @ 460.0 V 2.100 A @ 208.0 V 2.500 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a

Part Detail

Revision	C
Type	AC
Mech. spec.	35K306
Base	
Status	PRD/A
Elec. spec.	35WGG344
Layout	35LYK306
Eff. date	11-12-2024
CD Diagram	CD0007
Poles	06
Leads	12#18
Proprietary	False
Created date	12-19-2022

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.30 IN
Power Factor	54
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Other
Pulley Shaft Indicator	Key And Flat
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	CFM3136A										
SPEC.	35K306G344G1										
HP	.5										
VOLTS	208-230/460										
AMP	2.1-2.5/1.25										
RPM	1175										
FRAME	56YZ			HZ		60		PH		3	
SER.F.	1.15	CODE	M	DES	B	CL	F				
NEMA-NOM-EFF	72	PF	54								
RATING	60C AMB-CONT										
CC											
DE	6203	ODE	6205								
ENCL	OPEN	SN									
	SFA 2.24-2.6/1.3										

AC Induction Motor Performance Data

Record # 87801

Typical performance - not guaranteed values

Winding: 35WGG344-R001			Type: 3516M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		2.31 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		2.1-2.5/1.25	Breakdown Torque		9.11 LB-FT		
R.P.M.		1175	Pull-up Torque		5.52 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		5.87 LB-FT		
NEMA Design Code		B	KVA Code		M	Starting Current	6.83 A
Service Factor (S.F.)		1.15	No-load Current		1.1 A		
NEMA Nom. Eff.		72	Power Factor		54	Line-line Res. @ 25°C	36.7 Ω
Rating - Duty		60C AMB-CONT	Temp. Rise @ Rated Load				
S.F. Amps		2.24-2.6/1.3	Temp. Rise @ S.F. Load				
			Locked-rotor Power Factor		68.8		
			Rotor inertia		0.116 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	23	35	45	54	61	67	58
Efficiency	46.4	61.8	68.9	72.7	74.2	74.3	73.6
Speed	1193	1188	1182	1177	1171	1164	1173
Line amperes	1.1	1.13	1.16	1.24	1.32	1.41	1.29

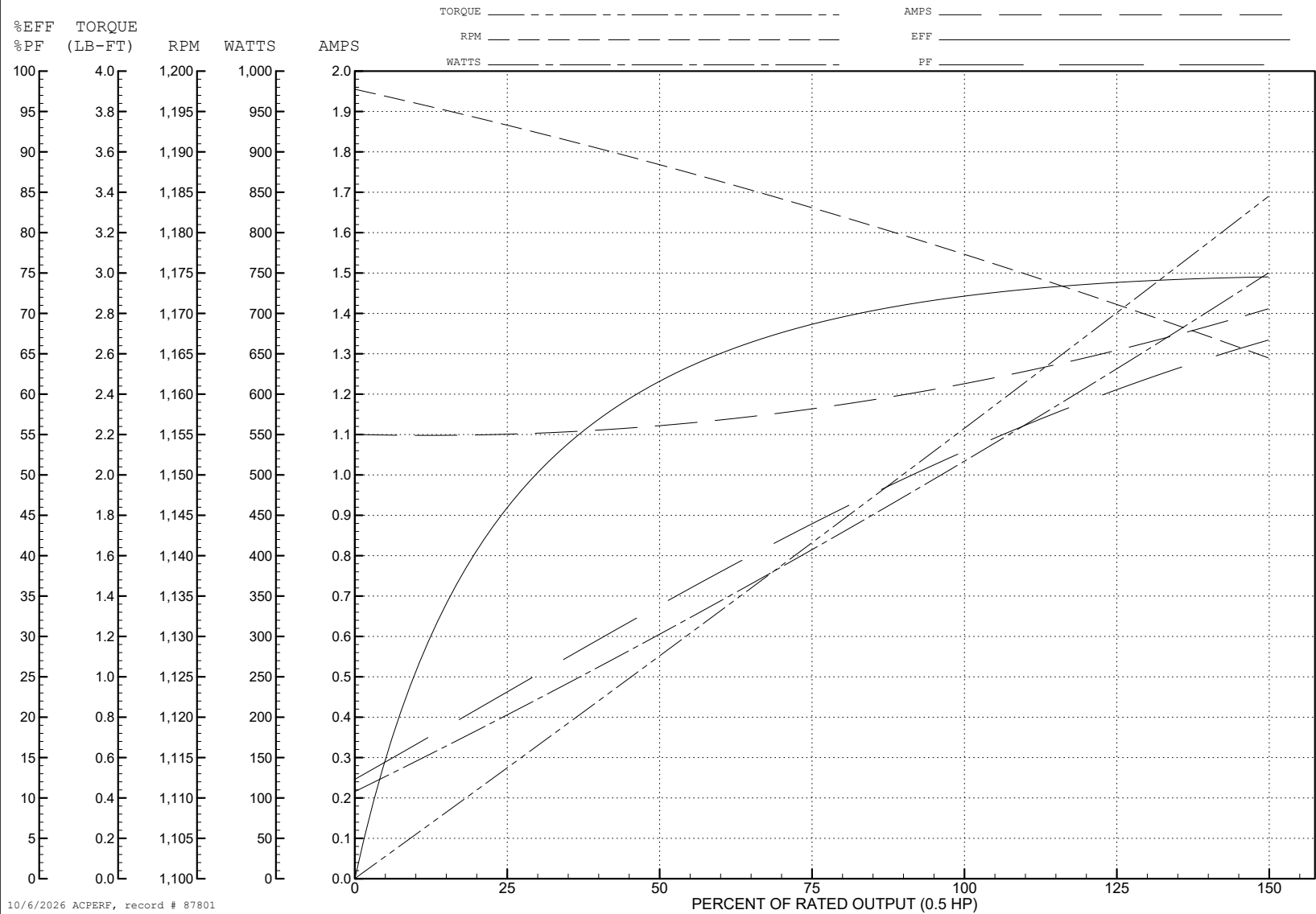
ABB Motors and Mechanical Inc.

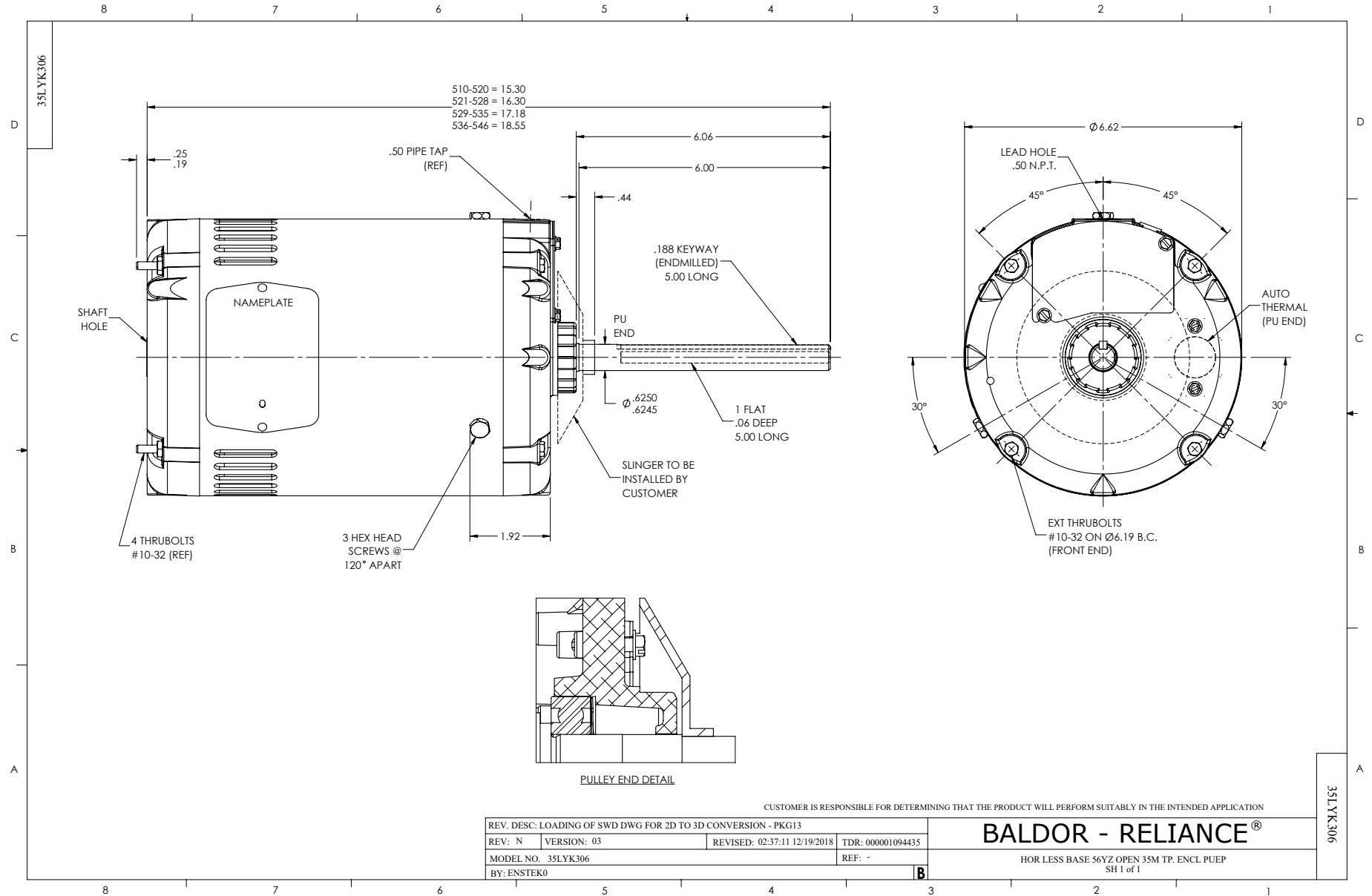
WINDING # 35WGG344

Typical performance - not guaranteed values.

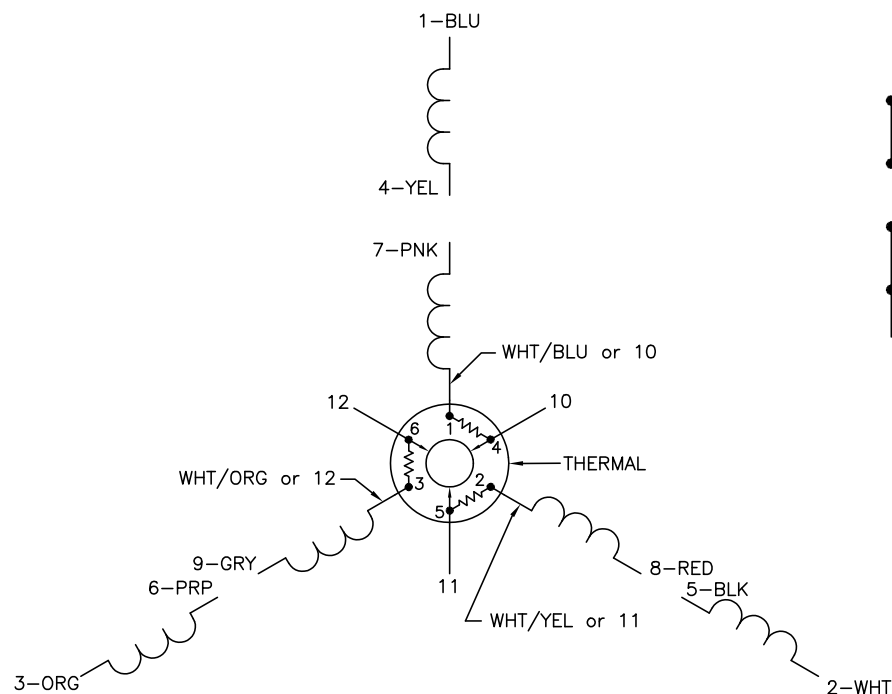
0.5 HP 3 PH 60 HZ 1175 RPM 460 V 3516M

TORQUES (LB-FT) : PO=9.11 PU=5.52 LR=5.87 LRA=6.83

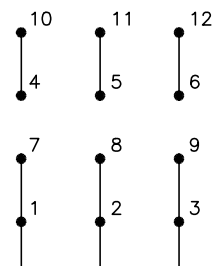




CD0007

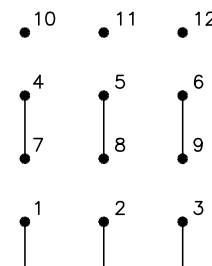


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE

REV. LTR: E

BY: EAH

REVISED: 05/06/99 17:1

TDR: 0181040

200000

FILE: AAA00008370

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS

CD0007