

ABB BALDOR RELIANCE III

Customer information packet

CFM3146A

.75HP, 1160RPM, 3PH, 60HZ, 56YZ, 3520M, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPAO
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	.750 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	1.350 A @ 460.0 V 2.600 A @ 208.0 V 2.700 A @ 230.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a

Part Detail

Revision	G
Type	AC
Mech. spec.	35K306
Base	
Status	PRD/A
Elec. spec.	35WGG342
Layout	35LYK306
Eff. date	04-30-2025
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	J
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	3520M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.30 IN
Power Factor	67
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	1160 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.	CFM3146A										
SPEC.	35K306G342										
HP	.75 AIR OVER										
VOLTS	208-230/460										
AMP	2.6-2.7/1.35										
RPM	1160										
FRAME	56YZ				HZ		60		PH		3
SER.F.	1.15	CODE		J	DES		B	CL		F	
NEMA-NOM-EFF	77	PF		67							
RATING	60C AMB-CONT										
CC											
DE	6203	ODE			6205						
ENCL	OPAO	SN									
	SFA 2.92-2.9/1.45										

AC Induction Motor Performance Data

Record # 87792

Typical performance - not guaranteed values

Winding: 35WGG342-R001			Type: 3520M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.75	Full Load Torque		3.35 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		2.6-2.7/1.35	Breakdown Torque		10.18 LB-FT	
R.P.M.		1140	Pull-up Torque		7 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		7.28 LB-FT	
NEMA Design Code		J	Starting Current		7.43 A	
Service Factor (S.F.)		1.15	No-load Current		0.955 A	
NEMA Nom. Eff.		67	Line-line Res. @ 25°C		28.1 Ω	
Rating - Duty		60C AMB-CONT	Temp. Rise @ Rated Load		27°C	
S.F. Amps		2.92-2.9/1.45	Temp. Rise @ S.F. Load		31°C	
			Locked-rotor Power Factor		61.2	
			Rotor inertia		0.145 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	47	60	66	72	75	70
Efficiency	57.4	71.1	76.4	77.7	77.4	77	77.5
Speed	1188	1179	1169	1158	1147	1133	1151
Line amperes	1.01	1.06	1.15	1.34	1.52	1.75	1.45

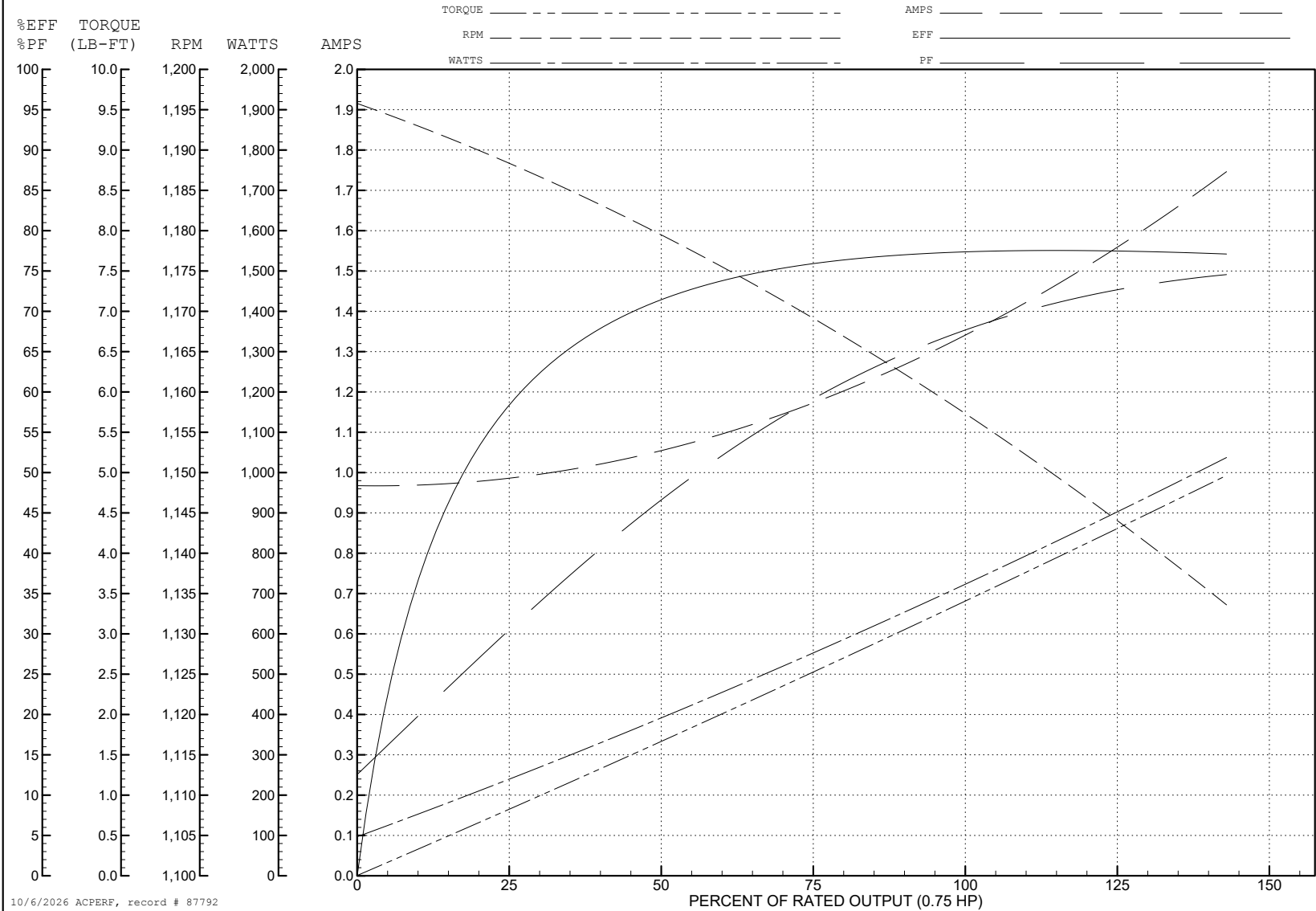
ABB Motors and Mechanical Inc.

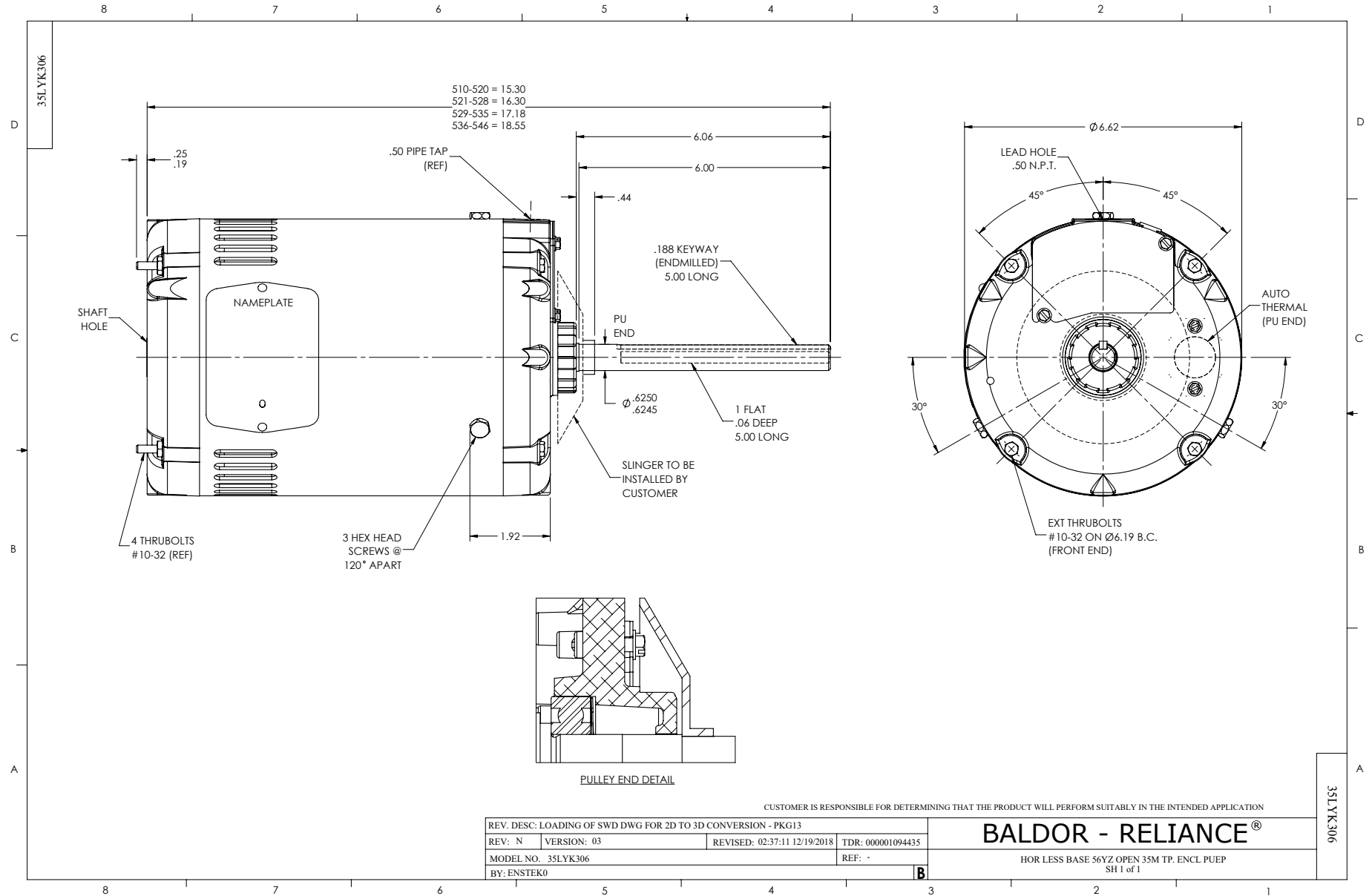
WINDING # 35WGG342

0.75 HP 3 PH 60 HZ 1140 RPM 460 V 3520M

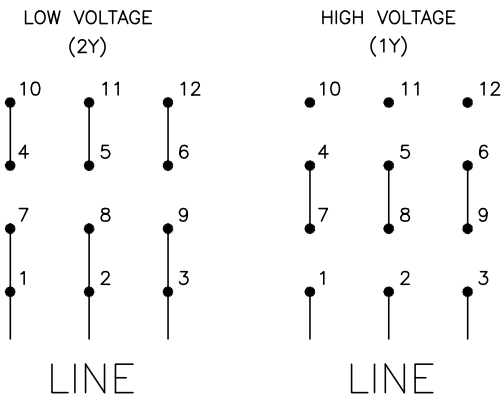
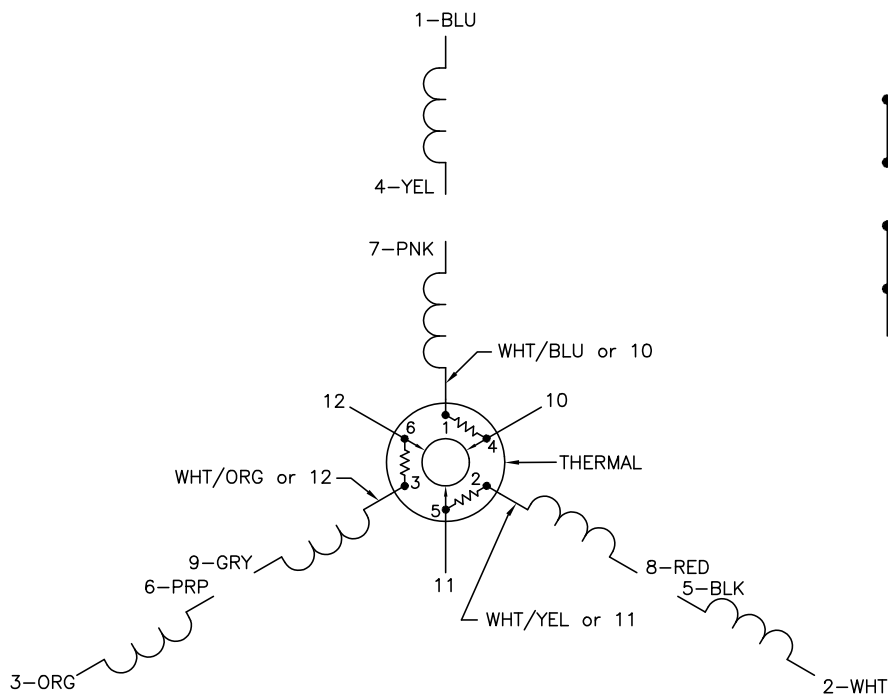
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=10.18 PU=7 LR=7.28 LRA=7.43





CD0007



- 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.

CD0007

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