

ABB BALDOR RELIANCE III

Customer information packet

M6007A

.5HP, 1725RPM, 3PH, 60HZ, 48, X3416M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	48
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.000 A @ 460.0 V 2.000 A @ 230.0 V 2.100 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AF
Type	AC
Mech. spec.	34-5427
Base	
Status	PRD/A
Elec. spec.	34WG1543
Layout	34LY5427
Eff. date	02-19-2026
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	B
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	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.85 IN
Power Factor	63
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.500 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Nameplate

NP0016XPSL					
NO.		CC			
SER. #					
SPEC	34-5427-1543				
CAT.NO.	M6007A				
H.P.	.5	T. CODE	T3C		
VOLTS	208-230/460				
AMPS	2.1-2/1				
R.P.M.	1725				
HZ	60	PH	3	CLASS	B
SER.F.	1.00	DES	B	CODE	L
RATING	40C AMB-CONT				
FRAME	48	NEMA NOM. EFF			74
	PF	63			
BLANK					

AC Induction Motor Performance Data

Record # 6627

Typical performance - not guaranteed values

Winding: 34WG1543-R002			Type: 3416M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.5 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		2.1-2/1	Breakdown Torque		6.5 LB-FT	
R.P.M.		1725	Pull-up Torque		4.5 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		5.6 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		6.7 A	
Service Factor (S.F.)		1	No-load Current		0.89 A	
NEMA Nom. Eff.		74 Power Factor	Line-line Res. @ 25°C		33 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		59°C	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	27	39	51	60	67	72
Efficiency	49.8	65	71.7	74.5	75.6	75.5
Speed	1785	1770	1756	1737	1724	1705
Line amperes	0.9	0.94	0.98	1	1.15	1.27

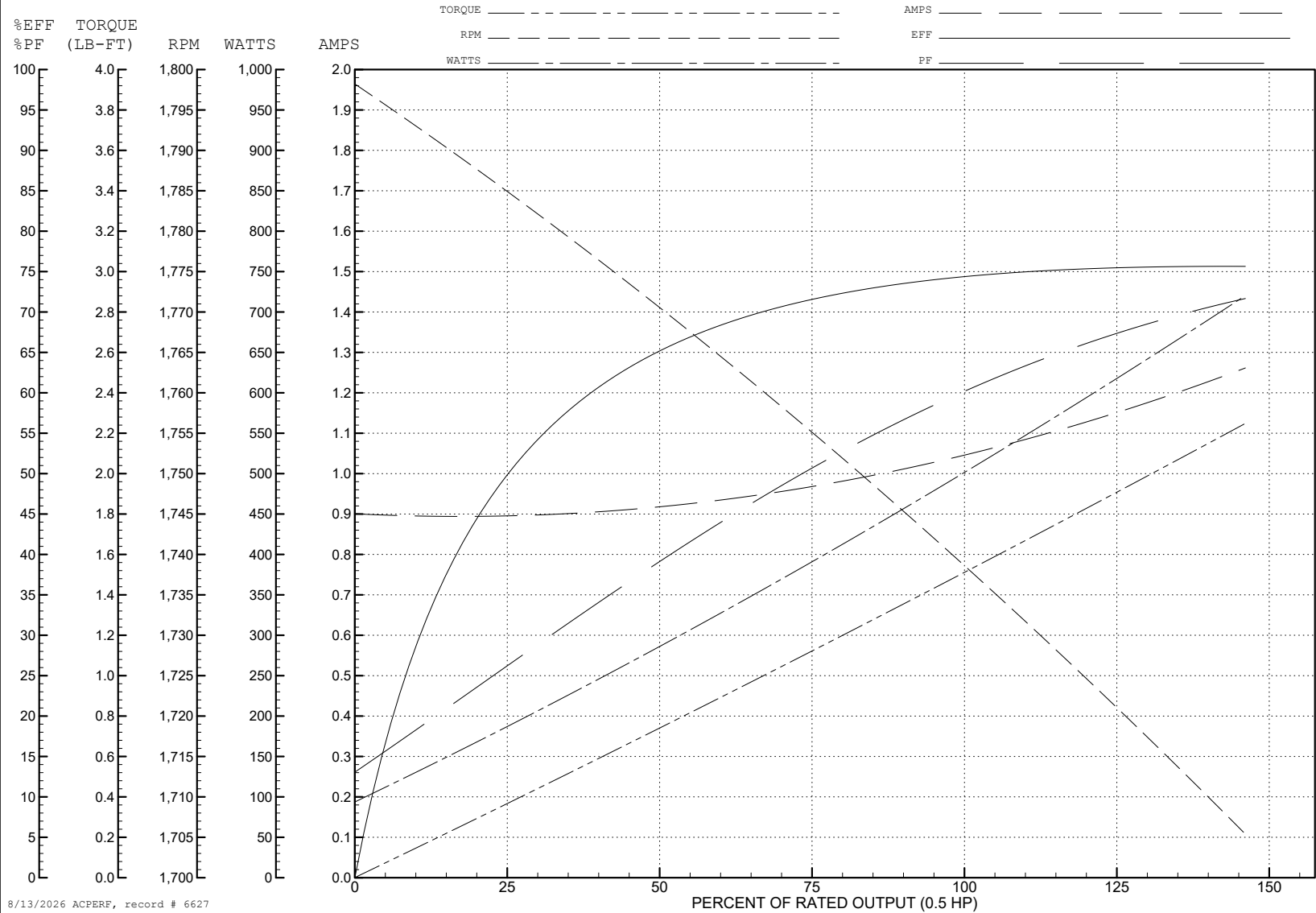
ABB Motors and Mechanical Inc.

WINDING # 34WG1543

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=6.5 PU=4.5 LR=5.6 LRA=6.7



AC Induction Motor Performance Data

Record # 20790

Typical performance - not guaranteed values

Winding: 34WG1543-R002			Type: 3416M		Enclosure: XPFC	
Nameplate Data			208 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.51 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		2.1-2/1	Breakdown Torque		5.25 LB-FT	
R.P.M.		1725	Pull-up Torque		3.56 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		4.43 LB-FT
NEMA Design Code		B	KVA Code		L	
Service Factor (S.F.)		1	Starting Current		11.8 A	
NEMA Nom. Eff.		74	Power Factor		63	
Rating - Duty		40C	AMB-CONT			
			Temp. Rise @ Rated Load		50°C	
			Locked-rotor Power Factor		65	
			Rotor inertia		0.0381 LB-FT2	

Load Characteristics 208 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	52	65	77	79	81
Efficiency	49.3	64.9	71.8	74.4	75.5	75.5
Speed	1782	1765	1748	1725	1707	1683
Line amperes	1.43	1.54	1.67	1.79	2.14	2.47

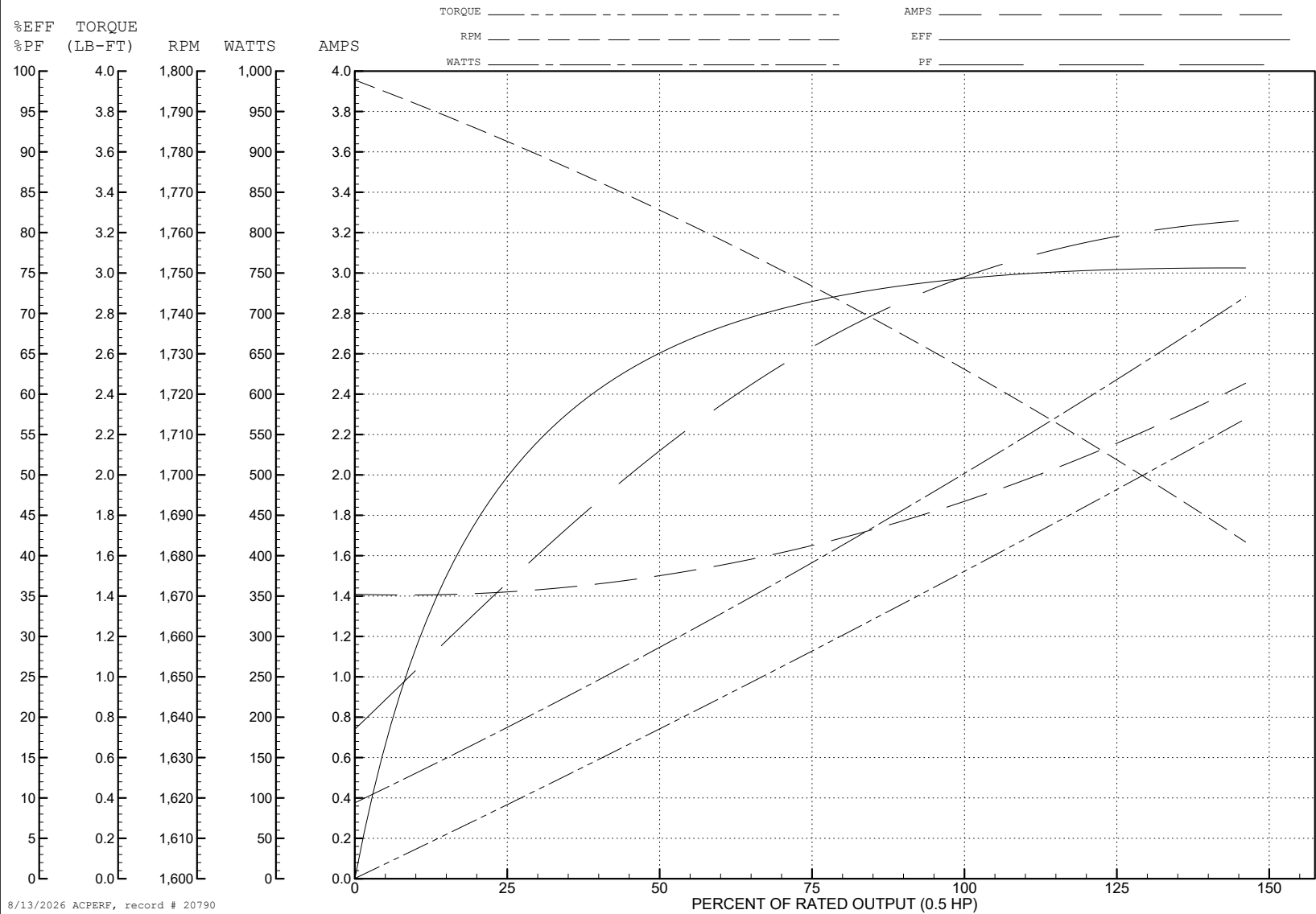
ABB Motors and Mechanical Inc.

WINDING # 34WG1543

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1725 RPM 208 V 3416M

TORQUES (LB-FT): PO=5.25 PU=3.56 LR=4.43 LRA=11.8



AC Induction Motor Performance Data

Record # 69785

Typical performance - not guaranteed values

Winding: 34WG1543-R002			Type: 3416M		Enclosure: XPFC		
Nameplate Data			230 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		1.5 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		2.1-2/1	Breakdown Torque		6.5 LB-FT		
R.P.M.		1725	Pull-up Torque		4.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		5.6 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		13.4 A
Service Factor (S.F.)		1		No-load Current		1.78 A	
NEMA Nom. Eff.		74	Power Factor	63	Line-line Res. @ 25°C		8.34 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C	
S.F. Amps				Temp. Rise @ S.F. Load		68°C	
				Locked-rotor Power Factor		66.1	
				Rotor inertia		0.0381 LB-FT2	

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	27	39	50	62	66	71
Efficiency	49.8	65	72.1	74.4	75.8	75.4
Speed	1785	1770	1756	1737	1724	1705
Line amperes	1.8	1.88	1.96	2	2.3	2.54

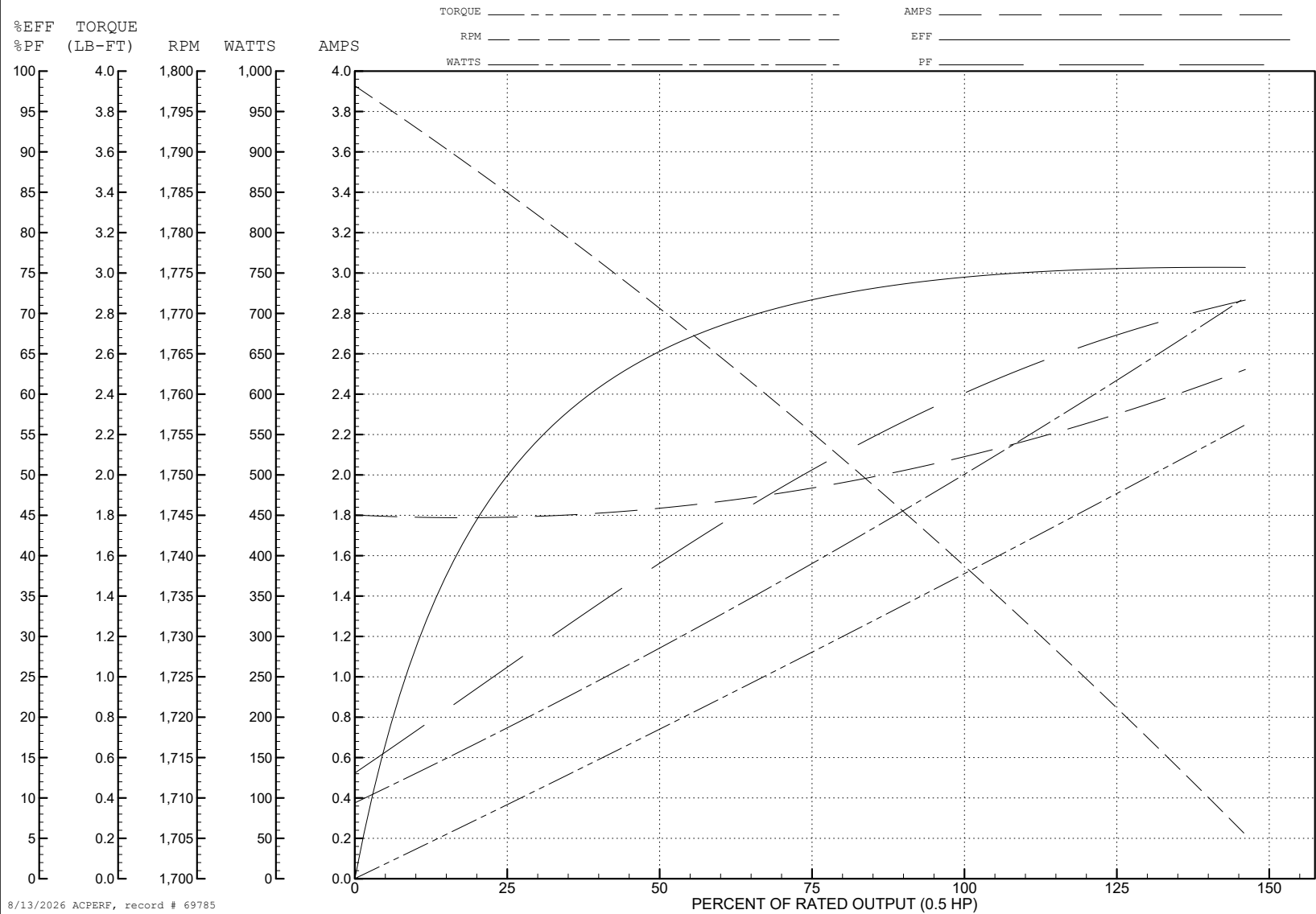
ABB Motors and Mechanical Inc.

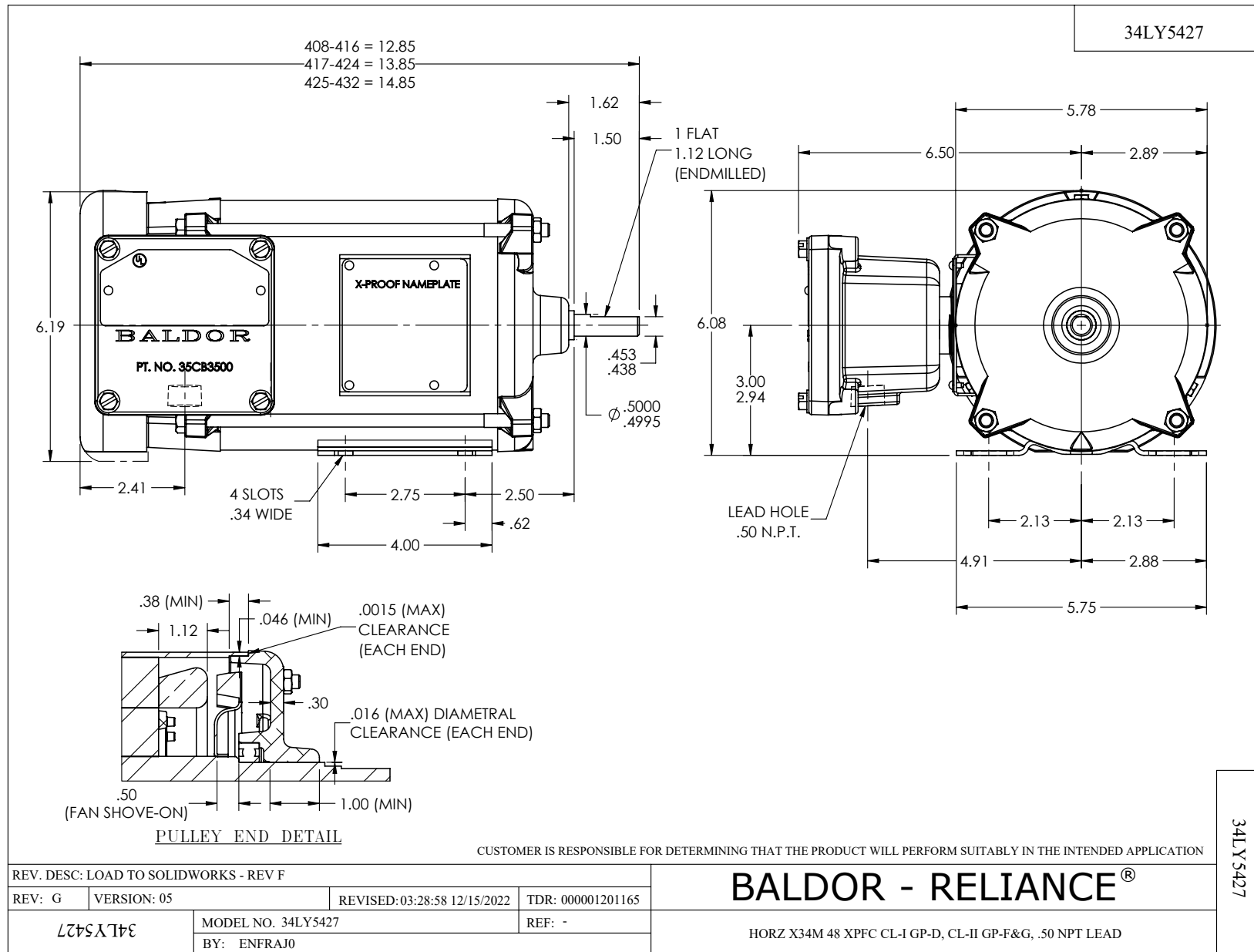
WINDING # 34WG1543

Typical performance - not guaranteed values.

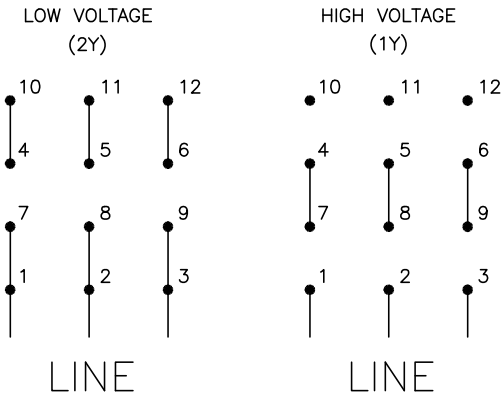
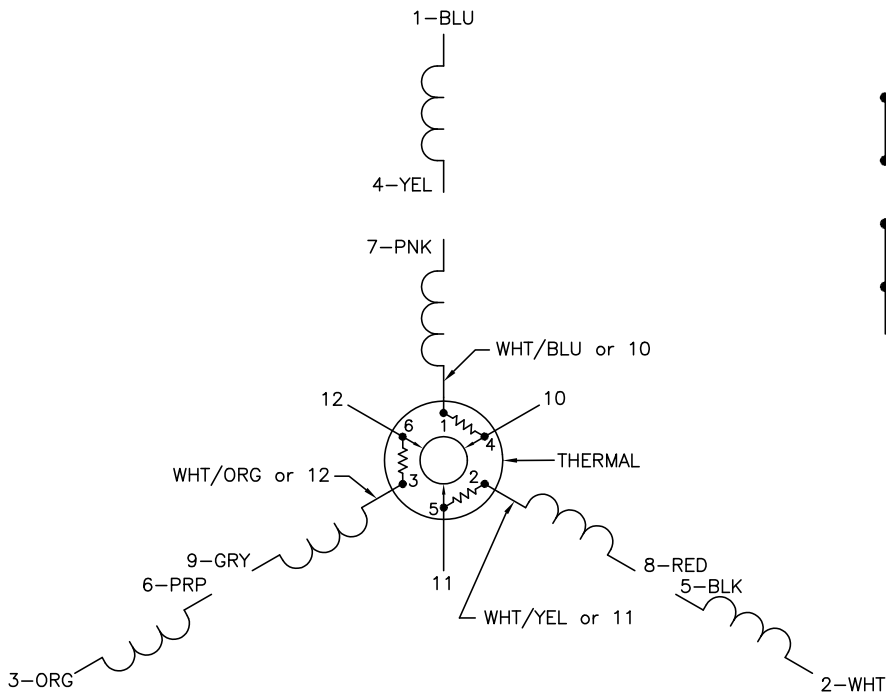
0.5 HP 3 PH 60 HZ 1725 RPM 230 V 3416M

TORQUES (LB-FT): PO=6.5 PU=4.5 LR=5.6 LRA=13.4





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.

REV. DESC: ADDED "CK" PLANT CODE			
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
L00000		FILE: AAA00008370	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS

CD0007