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# Customer information packet

## XM05142

1//.75HP, 1760//1475RPM, 3PH, 60//50HZ, 56, 3  
Class - CLI GP D; CLII GP F,G  
Division - Division I

## Specifications

Enclosure	XPFC
Frame	56
Frame Material	Steel
Frequency	50.00 Hz 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	.750 HP @ 50 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	1.3
Current @ Voltage	3.260 A @ 230.0 V 3.200 A @ 208.0 V 3.080 A @ 190.0 V 1.630 A @ 460.0 V 1.540 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

## Part detail

Revision	D
Type	AC
Mech. spec.	35E356
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYE356
Eff. date	07-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	01-10-2022

Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.28 IN
Power Factor	67
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	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm 1760 rpm

<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP0887XPSLEV**

<b>NO.</b>		<b>CC</b>	010A		
<b>S/N</b>		<b>TEMP CODE</b>	T3C		
<b>SPEC.</b>	35E356G004G2	<b>INV.TYPE</b>	PWM		
<b>CAT.NO.</b>	XM05142	<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>HP</b>	1//.75	<b>CT HZ FROM</b>	1.3	<b>CT HZ TO</b>	60
<b>VOLTS</b>	230/460//190/380	<b>VT HZ FROM</b>	1.3	<b>VT HZ TO</b>	60
<b>AMPS</b>	3.26/1.63//3.08/1.54	<b>MAG CUR</b>	2.16/1.08		
<b>RPM</b>	1760//1475	<b>MX RPM</b>	2700		
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F
		<b>NOM.EFF.</b>	85.5		
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>SL HZ</b>	1.3
		<b>WK2</b>	0.144		
<b>FRAME</b>	56	<b>RATING</b>	40C AMB-CONT		
			55C AMB AT 1.00 SF SINEWAVE		
			NEMA MG-1 PART 5, IP54		
			1.15 SF SINEWAVE		

**AC Induction Motor Performance Data**

Record # 100119

Typical performance - not guaranteed values

<b>Winding: 35WGG004-R037</b>		<b>Type: 3520M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1//.75		<b>Full Load Torque</b>	2.97 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	3.26/1.63//3.08/1.54		<b>Breakdown Torque</b>	13.68 LB-FT	
<b>R.P.M.</b>	1760//1475		<b>Pull-up Torque</b>	7.85 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	9.01 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		N	<b>Starting Current</b>	14.13 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	1.08 A
<b>NEMA Nom. Eff.</b>	85.5	<b>Power Factor</b>	67	<b>Line-line Res. @ 25°C</b>	16.9 Ω
<b>Rating - Duty</b>	40C AMB-CONT			<b>Temp. Rise @ Rated Load</b>	24°C
				<b>Locked-rotor Power Factor</b>	61.5
				<b>Rotor inertia</b>	0.144 lb-ft <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 1 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	30	47	60	69	76	79
<b>Efficiency</b>	72.1	81.7	84.7	85.7	85.5	84.7
<b>Speed</b>	1791	1784	1776	1768	1759	1750
<b>Line amperes</b>	1.11	1.22	1.38	1.59	1.82	2.09

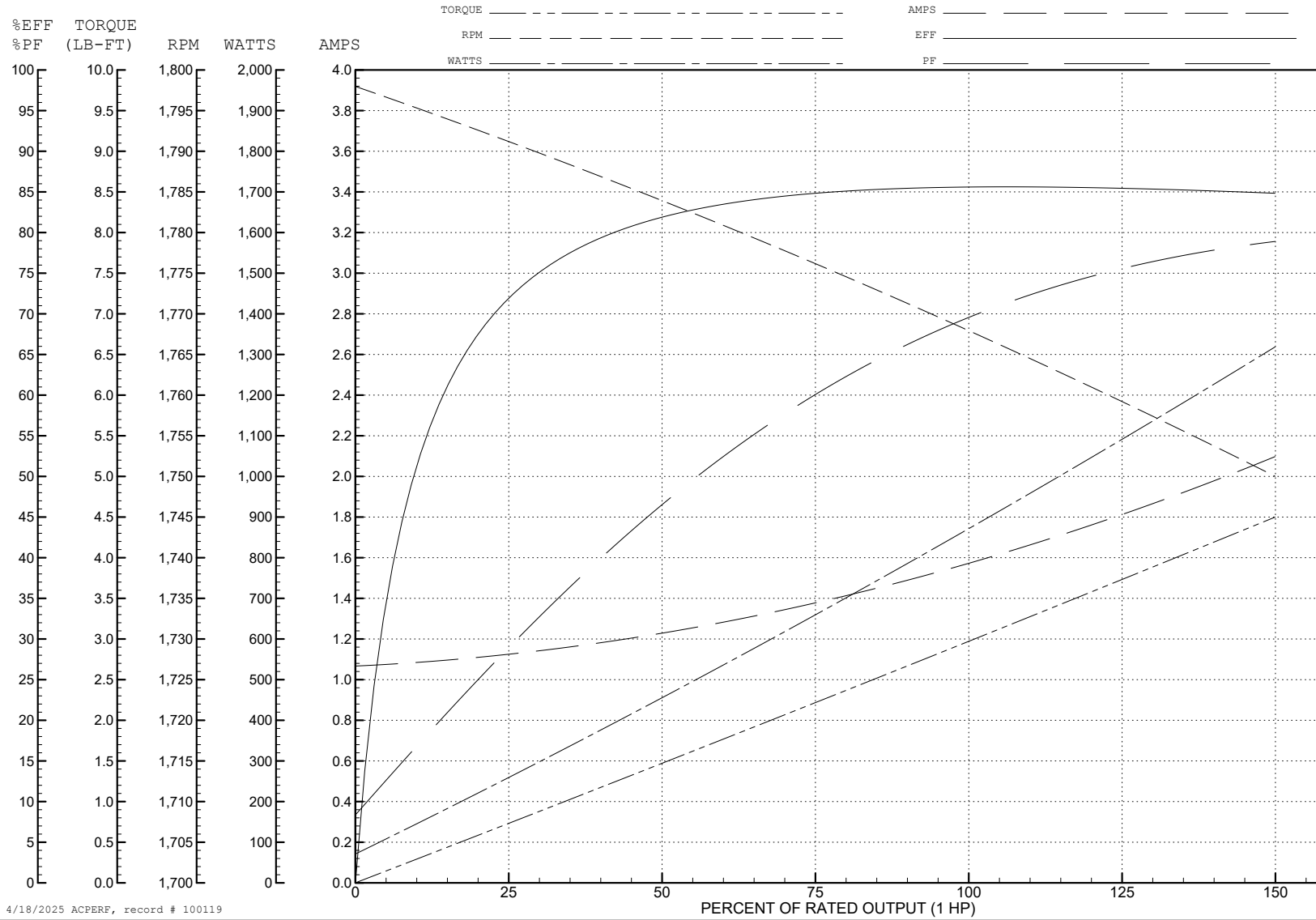
ABB Motors and Mechanical Inc.

WINDING # 35WGG004

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1768 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13



4/18/2025 ACPERF, record # 100119

**AC Induction Motor Performance Data**

Record # 100120

Typical performance - not guaranteed values

<b>Winding: 35WGG004-R037</b>		<b>Type: 3520M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1//.75		<b>Full Load Torque</b>	2.68 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	3.26/1.63//3.08/1.54		<b>Breakdown Torque</b>	12.31 LB-FT	
<b>R.P.M.</b>	1760//1475		<b>Pull-up Torque</b>	7.45 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	8.55 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		N	<b>Starting Current</b>	13.12 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	1.06 A
<b>NEMA Nom. Eff.</b>	85.5	<b>Power Factor</b>	67	<b>Line-line Res. @ 25°C</b>	16.9 Ω
<b>Rating - Duty</b>	40C AMB-CONT			<b>Temp. Rise @ Rated Load</b>	22°C
				<b>Locked-rotor Power Factor</b>	67.1
				<b>Rotor inertia</b>	0.144 lb-ft <sup>2</sup>

**Load Characteristics 380 V, 50 Hz, 0.75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	29	46	58	67	74	79
<b>Efficiency</b>	68.3	79	82.7	84	83.7	83.2
<b>Speed</b>	1492	1486	1479	1471	1463	1455
<b>Line amperes</b>	1.08	1.18	1.32	1.5	1.71	1.95



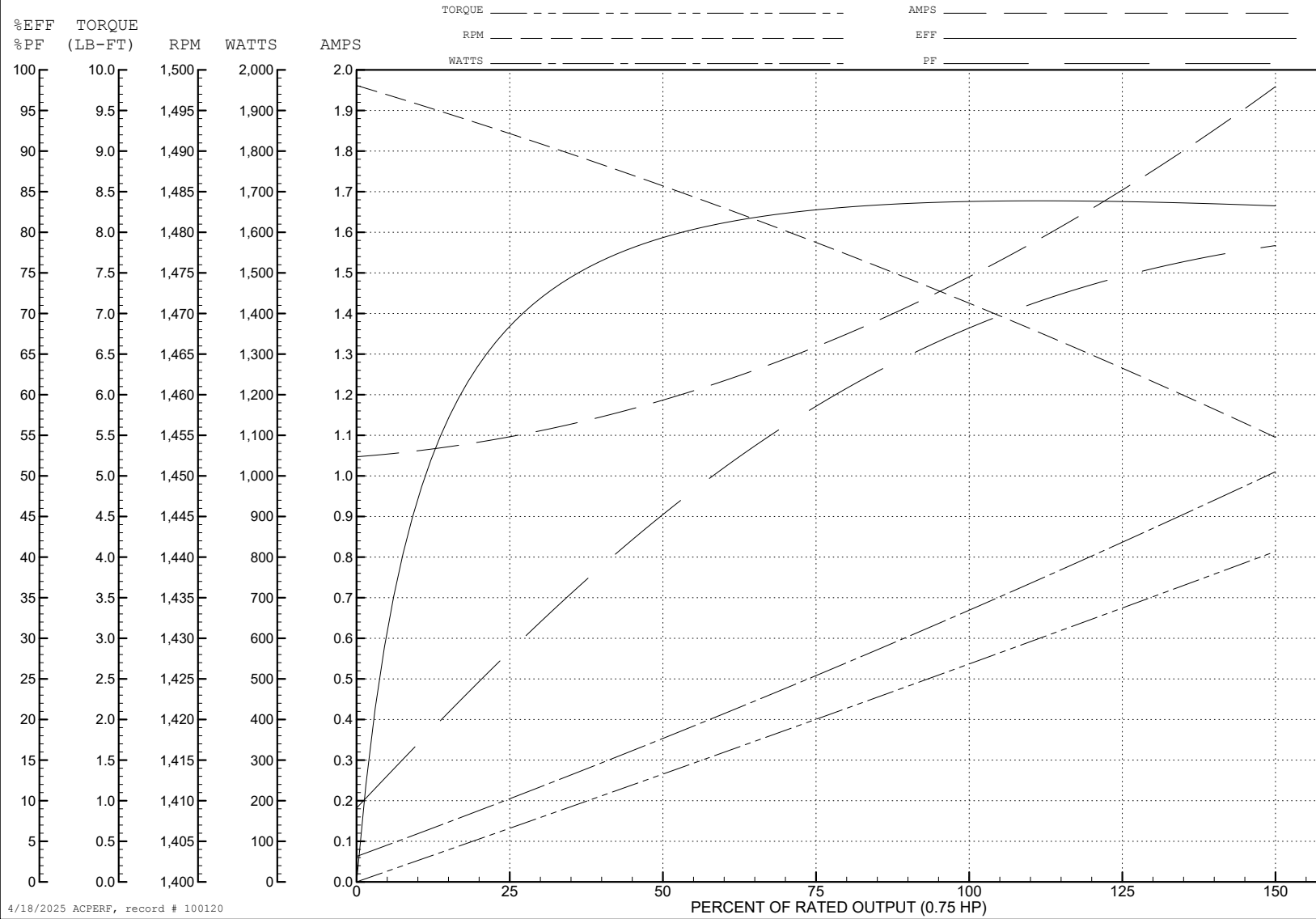
ABB Motors and Mechanical Inc.

WINDING # 35WGG004

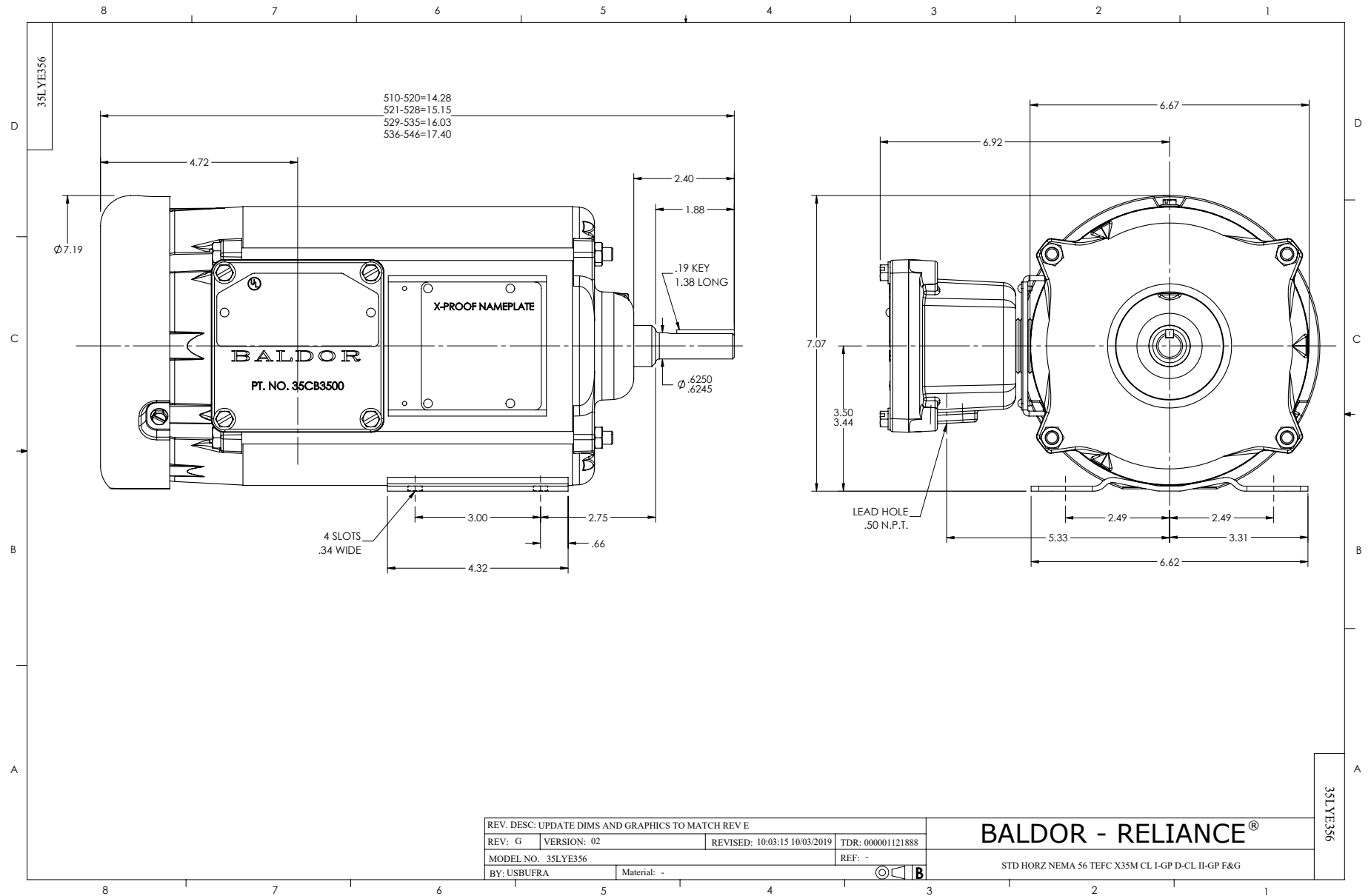
Typical performance - not guaranteed values.

0.75 HP 3 PH 50 HZ 1471 RPM 380 V 3520M

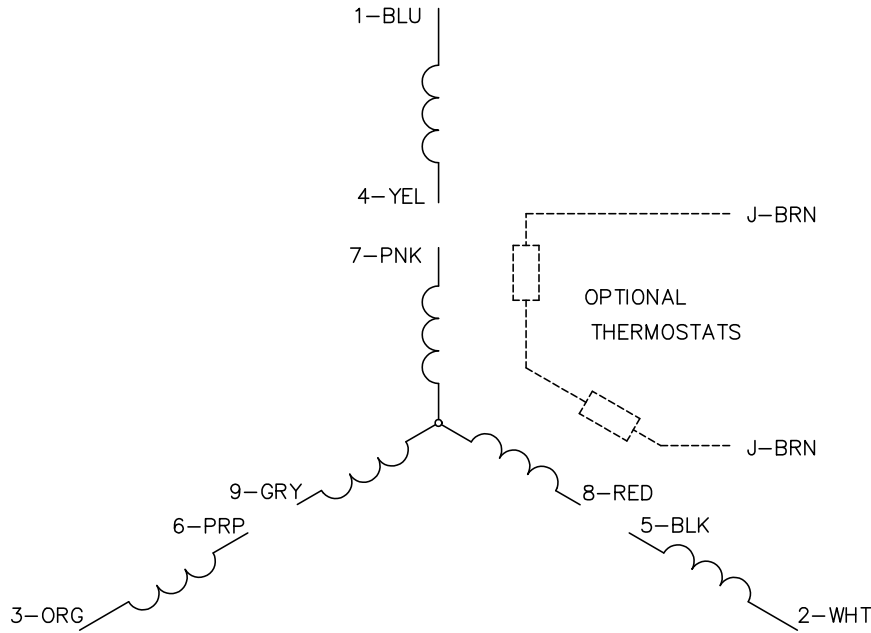
TORQUES (LB-FT): PO=12.31 PU=7.45 LR=8.55 LRA=13.12



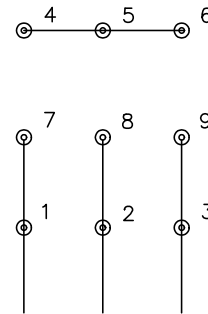
4/18/2025 ACPERF, record # 100120



CD0005

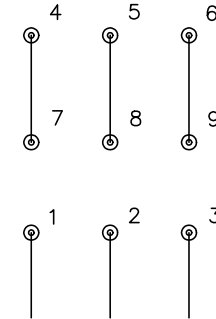


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS