

**BALDOR • RELIANCE**

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# Customer information packet

## VXM14242T

2//1.5HP, 1760//1456RPM, 3PH, 60//50HZ, 143T

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

Enclosure	XPFC
Frame	143TC
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	1.500 HP @ 50 HZ 2.000 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	3
Current @ Voltage	5.800 A @ 208.0 V 5.600 A @ 230.0 V 5.200 A @ 190.0 V 2.800 A @ 460.0 V 2.600 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

## Part detail

Revision	D
Type	AC
Mech. spec.	35E380
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYE380
Eff. date	10-27-2022
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-01-2021

Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	2.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.21 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1465 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>	35E380G073G1	<b>INV.TYPE</b>			
<b>CAT.NO.</b>	VXM14242T	<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>HP</b>	2//1.5	<b>CT HZ FROM</b>	3	<b>CT HZ TO</b>	60
<b>VOLTS</b>	230/460//190/380	<b>VT HZ FROM</b>	3	<b>VT HZ TO</b>	60
<b>AMPS</b>	5.6/2.8//5.2/2.6	<b>MAG CUR</b>	3.2/1.6		
<b>RPM</b>	1760//1465	<b>MX RPM</b>	2700		
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F
		<b>NOM.EFF.</b>	86.5		
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>SL HZ</b>	1.3
		<b>WK2</b>	0.202		
<b>FRAME</b>	143TC	<b>RATING</b>	40C AMB-CONT		

**AC Induction Motor Performance Data**

Record # 87414

Typical performance - not guaranteed values

<b>Winding: 35WGG073-R008</b>		<b>Type: 3528M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	2//1.5		<b>Full Load Torque</b>	5.99 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	5.6/2.8//5/2.5		<b>Breakdown Torque</b>	20.5 LB-FT	
<b>R.P.M.</b>	1760//1456		<b>Pull-up Torque</b>	13.8 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	15 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		L	<b>Starting Current</b>	22.5 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	1.62 A
<b>NEMA Nom. Eff.</b>	86.5	<b>Power Factor</b>	74	<b>Line-line Res. @ 25°C</b>	9.54 Ω
<b>Rating - Duty</b>	40C AMB-CONT			<b>Temp. Rise @ Rated Load</b>	64°C
				<b>Locked-rotor Power Factor</b>	57.9
				<b>Rotor inertia</b>	0.202 lb-ft <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 2 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>	35	55	68	76	81	84
<b>Efficiency</b>	78.2	85.3	86.8	86.5	85.4	83.6
<b>Speed</b>	1791	1782	1771	1760	1748	1734
<b>Line amperes</b>	1.71	1.97	2.34	2.82	3.36	3.97

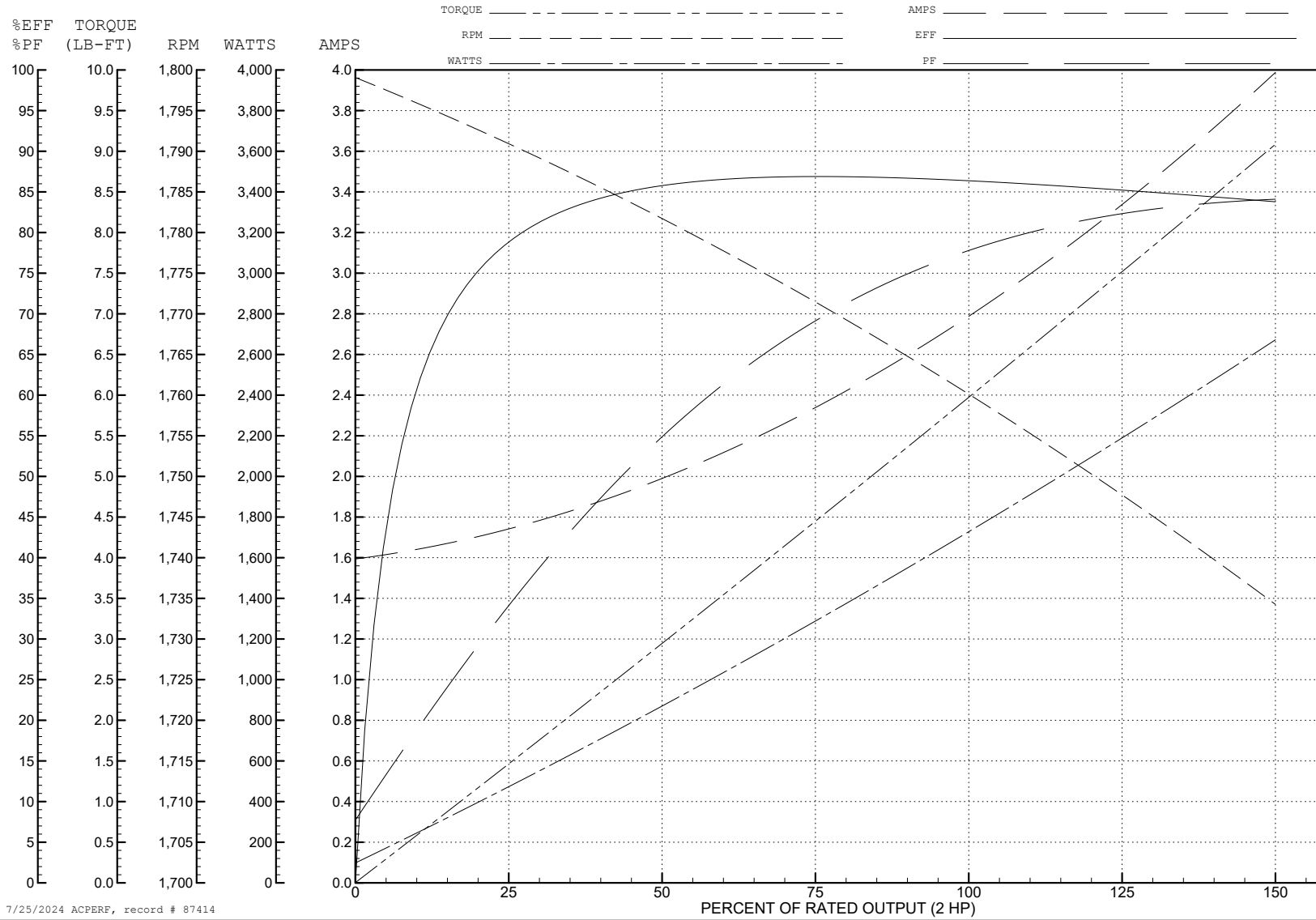
ABB Motors and Mechanical Inc.

WINDING # 35WGG073

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5



7/25/2024 ACPERF, record # 87414

**AC Induction Motor Performance Data**

Record # 87415

Typical performance - not guaranteed values

<b>Winding:</b> 35WGG073-R008		<b>Type:</b> 3528M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	2//1.5		<b>Full Load Torque</b>	5.4 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	5.6/2.8//5/2.5		<b>Breakdown Torque</b>	18.6 LB-FT	
<b>R.P.M.</b>	1760//1456		<b>Pull-up Torque</b>	13.3 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	14.4 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		L	<b>Starting Current</b>	21 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	1.58 A
<b>NEMA Nom. Eff.</b>	86.5	<b>Power Factor</b>	74	<b>Line-line Res. @ 25°C</b>	9.54 Ω
<b>Rating - Duty</b>	40C AMB-CONT			<b>Temp. Rise @ Rated Load</b>	58°C
				<b>Locked-rotor Power Factor</b>	63.3
				<b>Rotor inertia</b>	0.202 lb-ft <sup>2</sup>

**Load Characteristics 380 V, 50 Hz, 1.5 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>	33	53	67	75	81	84
<b>Efficiency</b>	75.7	83.6	85.4	85.3	84.1	82.2
<b>Speed</b>	1492	1484	1474	1464	1453	1440
<b>Line amperes</b>	1.66	1.88	2.2	2.63	3.12	3.68



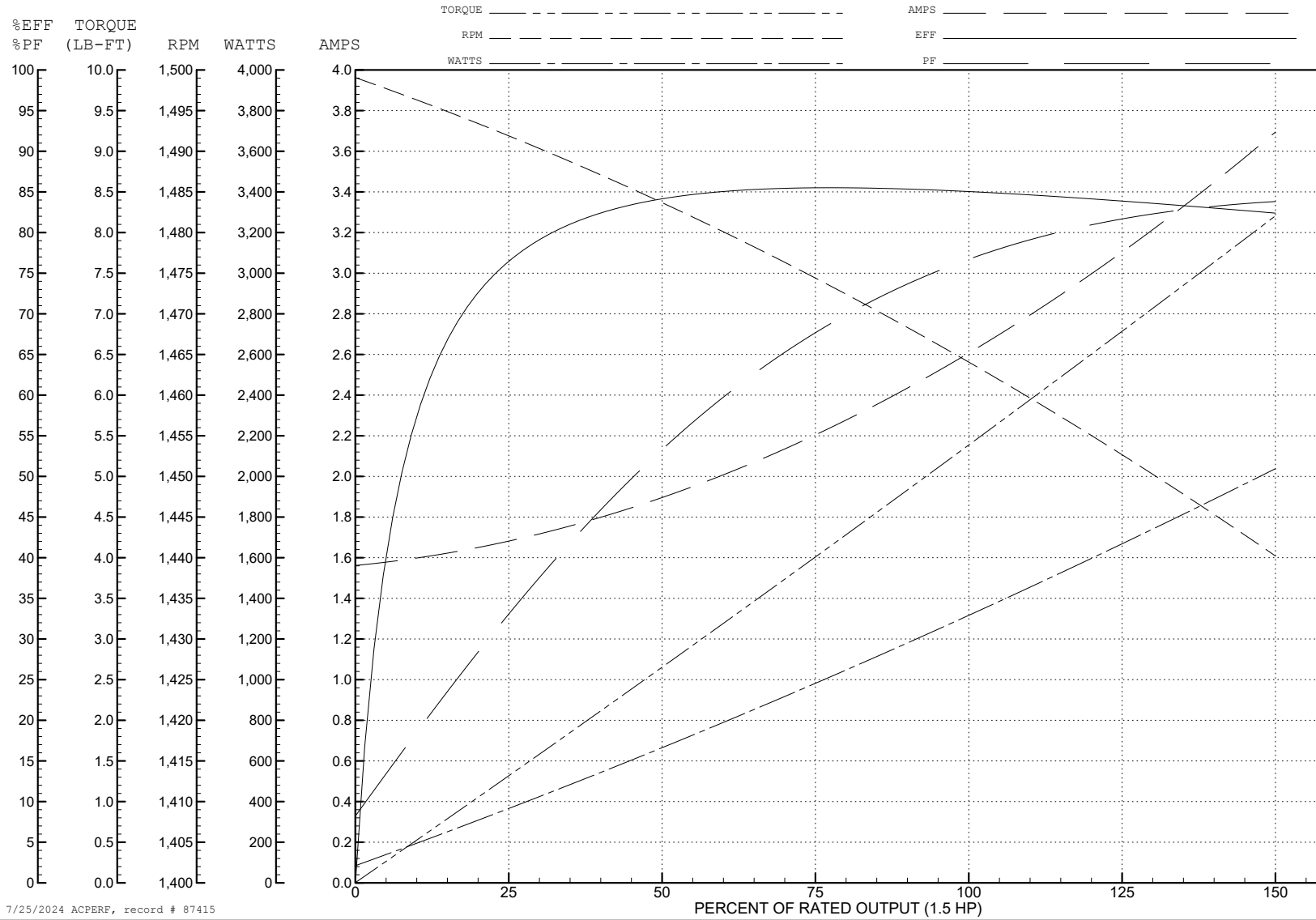
ABB Motors and Mechanical Inc.

WINDING # 35WGG073

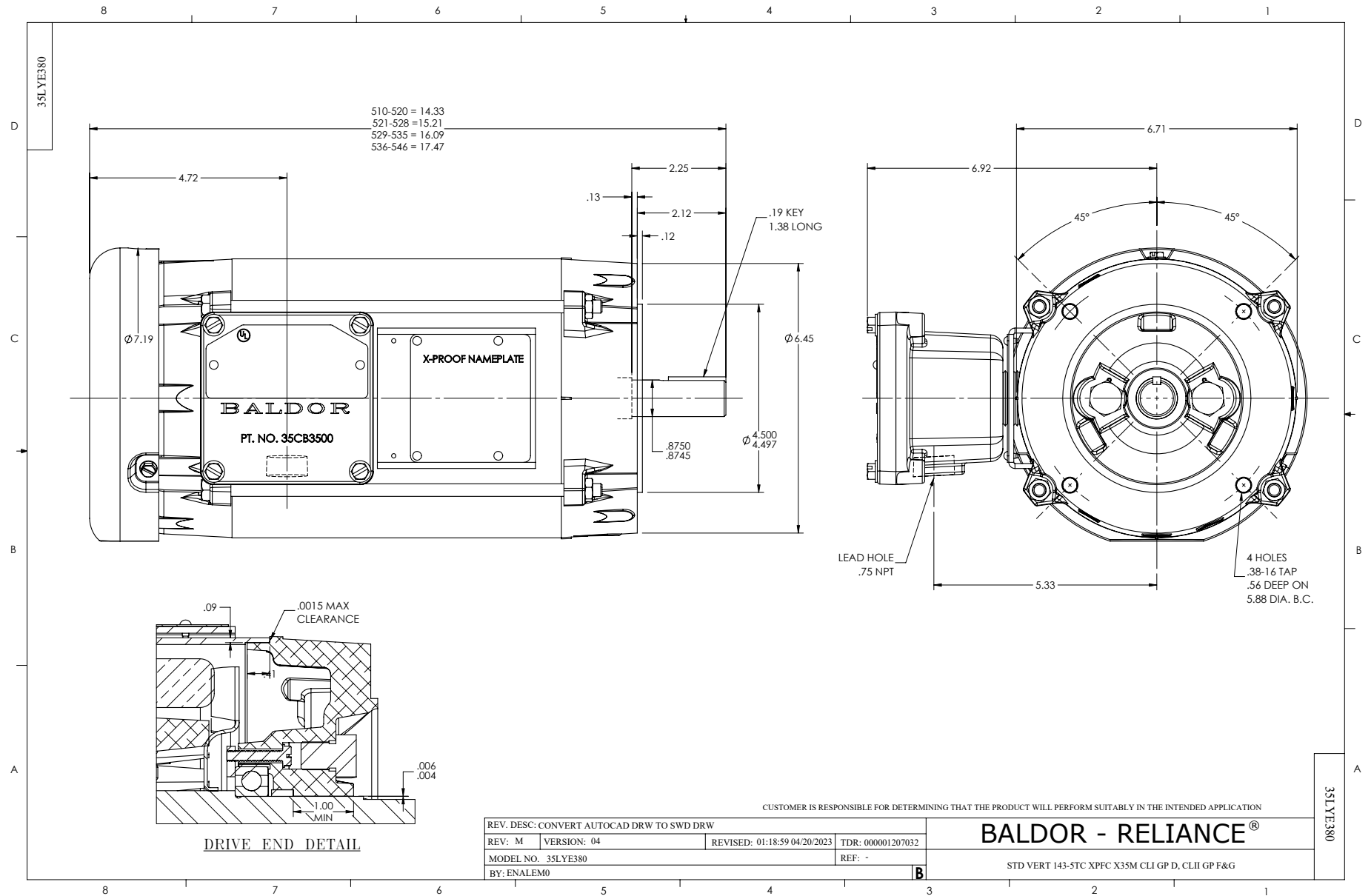
Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 1464 RPM 380 V 3528M

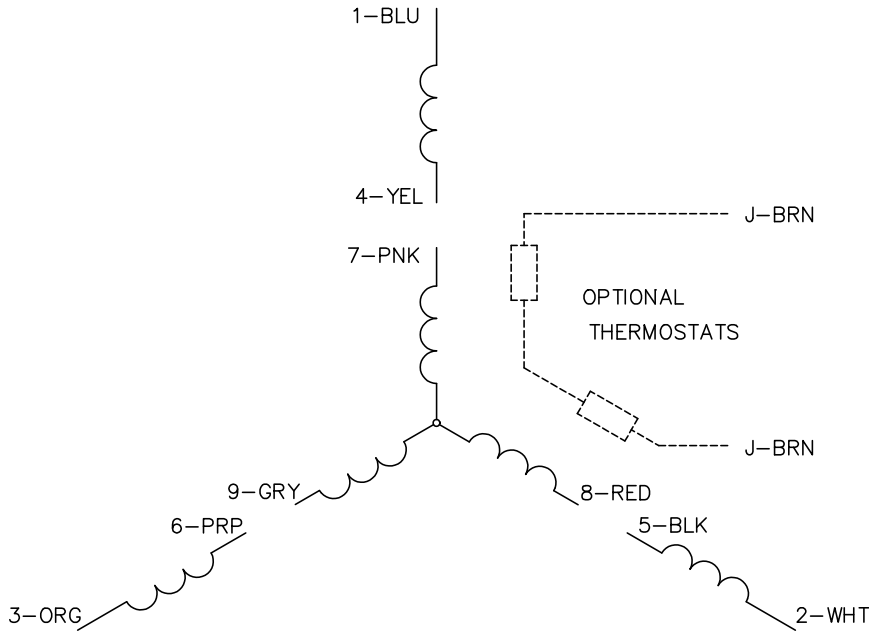
TORQUES (LB-FT): PO=18.6 PU=13.3 LR=14.4 LRA=21



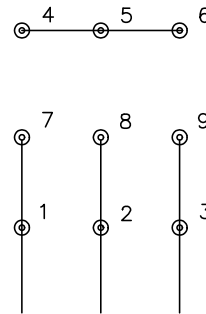
7/25/2024 ACPERF, record # 87415



CD0005

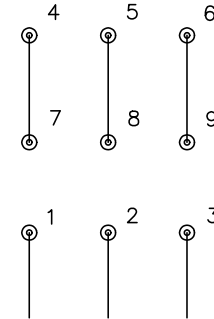


LOW VOLTAGE  
(2Y)



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

500000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS