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# Customer information packet

## CCPX32546T

76M 4P XPFC HOR 326TCY TSTAT CP FEAT INV

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

## Specifications

Enclosure	XPFC
Frame	326TCY
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ 40.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
XP Class and Group	CLI GP C,D; CLII GP E,F,G
XP Division	Division I
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	6
Current @ Voltage	114.000 A @ 190.0 V 118.000 A @ 230.0 V 57.000 A @ 380.0 V 59.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

## Part detail

Revision	H
Type	AC
Mech. spec.	12J224
Base	
Status	PRD/A
Elec. spec.	12WGY585
Layout	12LYJ224
Eff. date	08-01-2023
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	04-18-2019

Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1276M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	84
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1475 rpm

	1775 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
<b>XP Temp Code</b>	T3C

**Nameplate**

NP2033XPSLEV										
<b>NO.</b>		<b>CC</b>	010A							
<b>S/N</b>		<b>TEMP CODE</b>	T3C							
<b>SPEC.</b>	12J224Y585G2		<b>INV.TYPE</b>	PWM						
<b>CAT.NO.</b>	CCPX32546T		<b>C HP FR</b>	60	<b>C HP TO</b>	90				
<b>HP</b>	50//40		<b>CT HZ FROM</b>	6	<b>CT HZ TO</b>	60				
<b>VOLTS</b>	230/460//190/380		<b>VT HZ FROM</b>	6	<b>VT HZ TO</b>	60				
<b>AMPS</b>	118/59//114/57		<b>MAG CUR</b>	50/25						
<b>RPM</b>	1775//1475		<b>MX RPM</b>	2700						
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F	<b>NOM.EFF.</b>	94.5			
<b>SER.F.</b>	1.00	<b>DES</b>	A	<b>SL HZ</b>	0.83	<b>WK2</b>	10.1			
<b>FRAME</b>	326TCY	<b>RATING</b>	40C AMB-CONT							
<b>BLANK</b>	55C AMB @ 1.0 SF, 60C RISE									
	1.15SF ON SINEWAVE		NEMA MG-1 PT.5,IP55							

**AC Induction Motor Performance Data**

Record # 60172

Typical performance - not guaranteed values

<b>Winding:</b> 12WGY585-R008		<b>Type:</b> 1276M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	50		<b>Full Load Torque</b>	148 LB-FT	
<b>Volts</b>	230/460		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	118/59		<b>Breakdown Torque</b>	561 LB-FT	
<b>R.P.M.</b>	1775		<b>Pull-up Torque</b>	236 LB-FT	
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	279 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	475 A
<b>Service Factor (S.F.)</b>	1		<b>No-load Current</b>	25 A	
<b>NEMA Nom. Eff.</b>	94.5	<b>Power Factor</b>	84	<b>Line-line Res. @ 25°C</b>	0.096885 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	56°C	
			<b>Locked-rotor Power Factor</b>	26.4	
			<b>Rotor inertia</b>	10.1 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 50 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>	46	68	78	84	85	87
<b>Efficiency</b>	90	93.7	94.6	94.7	94.4	93.9
<b>Speed</b>	1794	1789.1	1784.4	1779.2	1773.7	1767.4
<b>Line amperes</b>	28.6	36.9	47.3	59.1	72.4	86.3

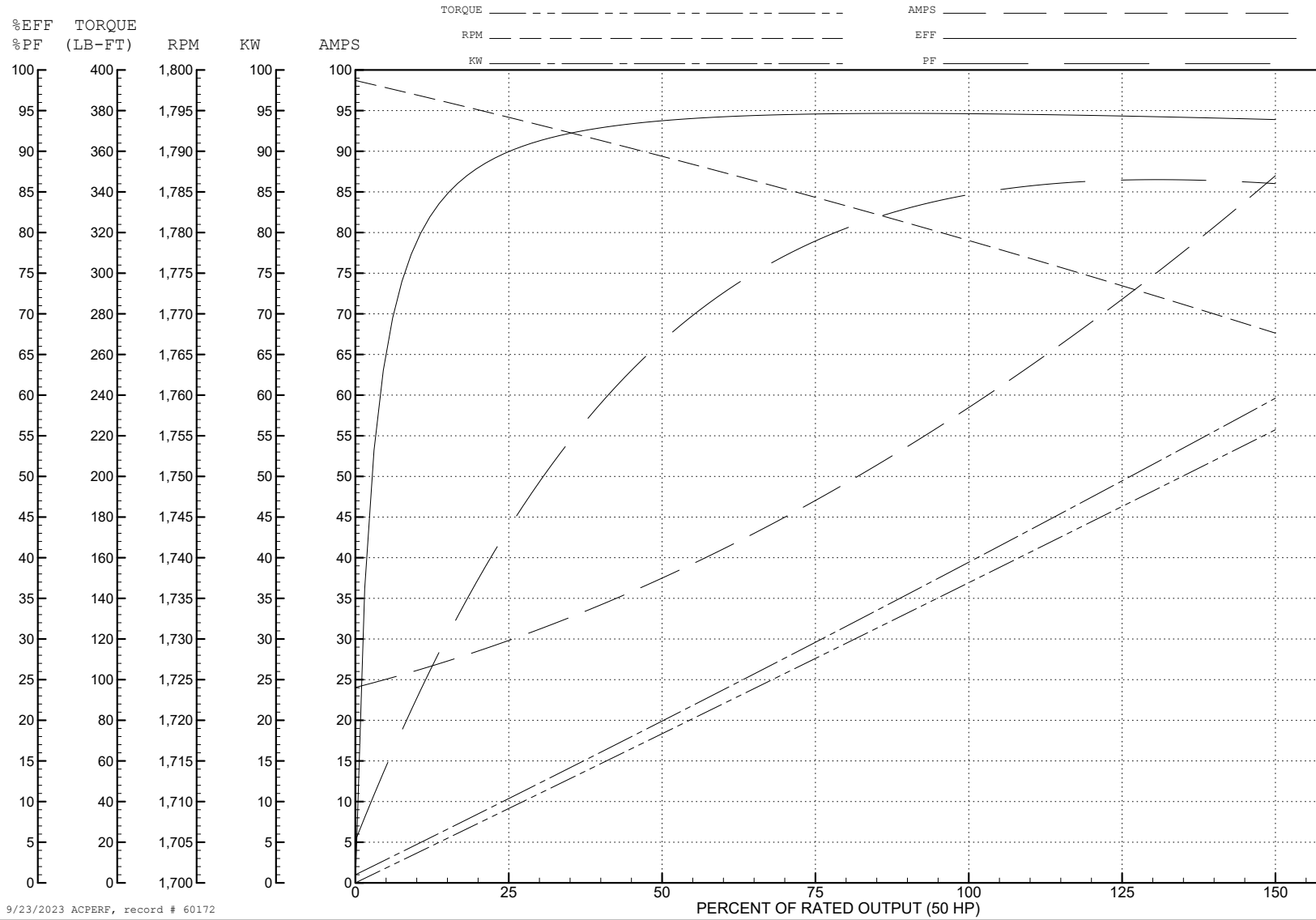
ABB Motors and Mechanical Inc.

WINDING # 12WGY585

Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1775 RPM 460 V 1276M

TORQUES (LB-FT): PO=561 PU=236 LR=279 LRA=475



9/23/2023 ACPERF, record # 60172

**AC Induction Motor Performance Data**

Record # 75507

Typical performance - not guaranteed values

<b>Winding: 12WGY585-R011</b>		<b>Type: 1276M</b>		<b>Enclosure: XPFC</b>		
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>			
<b>Rated Output (HP)</b>	50//40		<b>Full Load Torque</b>	142 LB-FT		
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	118/59//114/57		<b>Breakdown Torque</b>	544 LB-FT		
<b>R.P.M.</b>	1775//1475		<b>Pull-up Torque</b>	248 LB-FT		
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	293 LB-FT	
<b>NEMA Design Code</b>	A		<b>KVA Code</b>	J	<b>Starting Current</b>	465 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	24.51 A	
<b>NEMA Nom. Eff.</b>	94.5	<b>Power Factor</b>	84	<b>Line-line Res. @ 25°C</b>	0.0936 Ω	
<b>Rating - Duty</b>	40C		AMB-CONT	<b>Temp. Rise @ Rated Load</b>	52°C	
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	63°C	
				<b>Locked-rotor Power Factor</b>	29.3	
				<b>Rotor inertia</b>	10.1 LB-FT <sup>2</sup>	

**Load Characteristics 380 V, 50 Hz, 40 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>	45	67	78	84	86	87
<b>Efficiency</b>	90.3	93.7	94.6	94.3	94.2	93.2
<b>Speed</b>	1494	1490	1485	1480	1475	1469
<b>Line amperes</b>	27.9	35.86	45.89	57.36	70.22	83.76



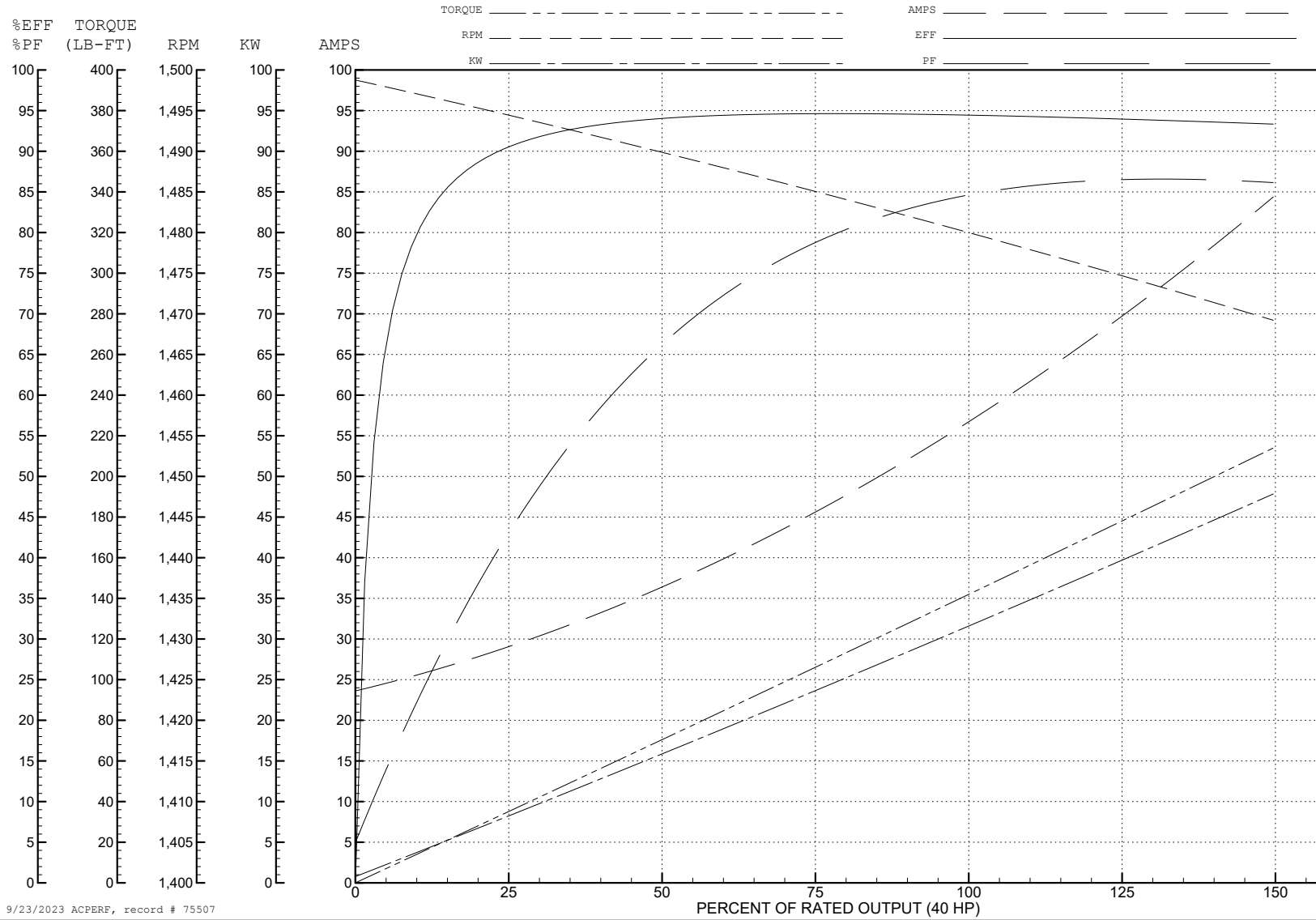
ABB Motors and Mechanical Inc.

WINDING # 12WGY585

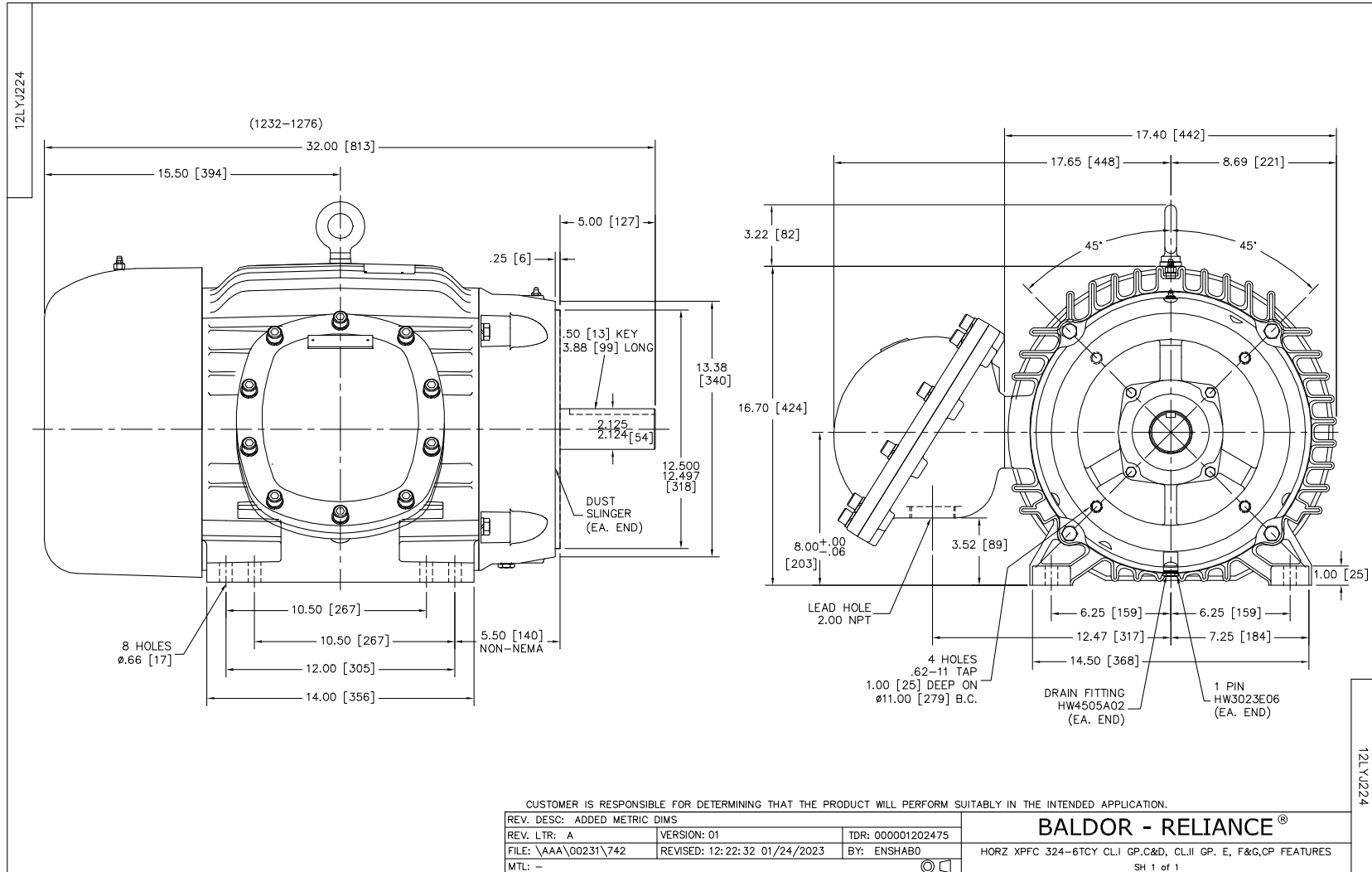
40 HP 3 PH 50 HZ 1480 RPM 380 V 1276M

Typical performance - not guaranteed values.

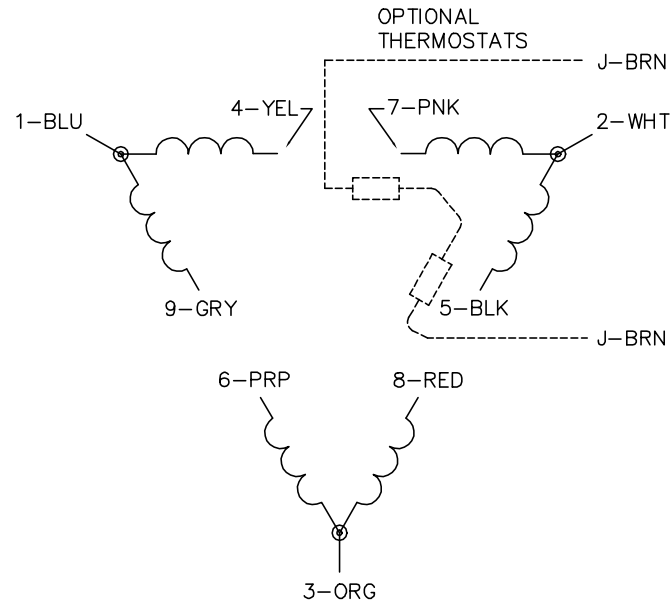
TORQUES (LB-FT): PO=544 PU=248 LR=293 LRA=465



9/23/2023 ACPERF, record # 75507



CD0180



LOW VOLTAGE (2D)



HIGH VOLTAGE (1D)



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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

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