

**BALDOR • RELIANCE**

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# Customer information packet

## VJPFPM2551T

75//60HP, 1770//1470RPM, 3PH, 60//50HZ, 365J

## Specifications

Enclosure	OPSB
Frame	365JP
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ 60.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 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
Current @ Voltage	87.000 A @ 460.0 V 84.000 A @ 380.0 V 174.000 A @ 230.0 V 168.000 A @ 190.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

## Part detail

Revision	E
Type	AC
Mech. spec.	42E361
Base	
Status	PRD/A
Elec. spec.	42WGW977
Layout	42LYE361
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	04
Leads	12#8
Proprietary	False
Created date	03-20-2017

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	84.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.50 IN
Power Factor	86
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1470 rpm 1770 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None

<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP3454L**

<b>CAT.NO.</b>	VJPFPM2551T	<b>CUST P/N</b>		<b>I.P.</b>	23
<b>SPEC.</b>	42E361W977H2	<b>SER.NO.</b>		<b>FRAME</b>	365JP
<b>HZ</b>	60	<b>HP</b>	75	<b>RPM</b>	1770
				<b>HZ</b>	50
				<b>HP</b>	60
				<b>RPM</b>	1470
<b>VOLTS</b>	230/460	<b>CODE</b>	F	<b>VOLTS</b>	190/380
		<b>CODE</b>	F		
<b>AMPS</b>	174/87	<b>DES</b>	B	<b>AMPS</b>	168/84
		<b>DES</b>	B		
<b>EFF</b>	94.1	<b>SER.F.</b>	1.15	<b>PF</b>	86
				<b>EFF</b>	93.6
				<b>SER.F.</b>	1.15
				<b>PF</b>	86
<b>RATING</b>	40C AMB-CONT	<b>DE BRG</b>	6313	<b>GREASE</b>	POLYREX EM
<b>BLANK</b>		<b>ODE BRG</b>	6311	<b>MTR. WT.</b>	565
		<b>CLASS</b>	F	<b>PH</b>	3
		<b>ENCL</b>	OPSB	<b>CC</b>	010A
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>	

**AC Induction Motor Performance Data**

Record # 54269

Typical performance - not guaranteed values

<b>Winding: 42WGW977-R001</b>		<b>Type: 4272M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	75//60		<b>Full Load Torque</b>	222 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	174/87//168/84		<b>Breakdown Torque</b>	585 LB-FT	
<b>R.P.M.</b>	1770//1470		<b>Pull-up Torque</b>	301 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	348 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		F	<b>Starting Current</b>	502 A
<b>Service Factor (S.F.)</b>			1.15	<b>No-load Current</b>	27.1 A
<b>NEMA Nom. Eff.</b>	94.1	<b>Power Factor</b>	86	<b>Line-line Res. @ 25°C</b>	0.37298 Ω
<b>Rating - Duty</b>			40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	60°C
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	77°C

**Load Characteristics 460 V, 60 Hz, 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>S.F.</b>
<b>Power Factor</b>	56	76	83	86	86	86	86
<b>Efficiency</b>	93	94.9	94.9	94.3	93.3	92.1	93.7
<b>Speed</b>	1794.3	1787.6	1780.4	1772.3	1763.3	1752.3	1767
<b>Line amperes</b>	33.9	48.4	66.4	86.5	109	134	100

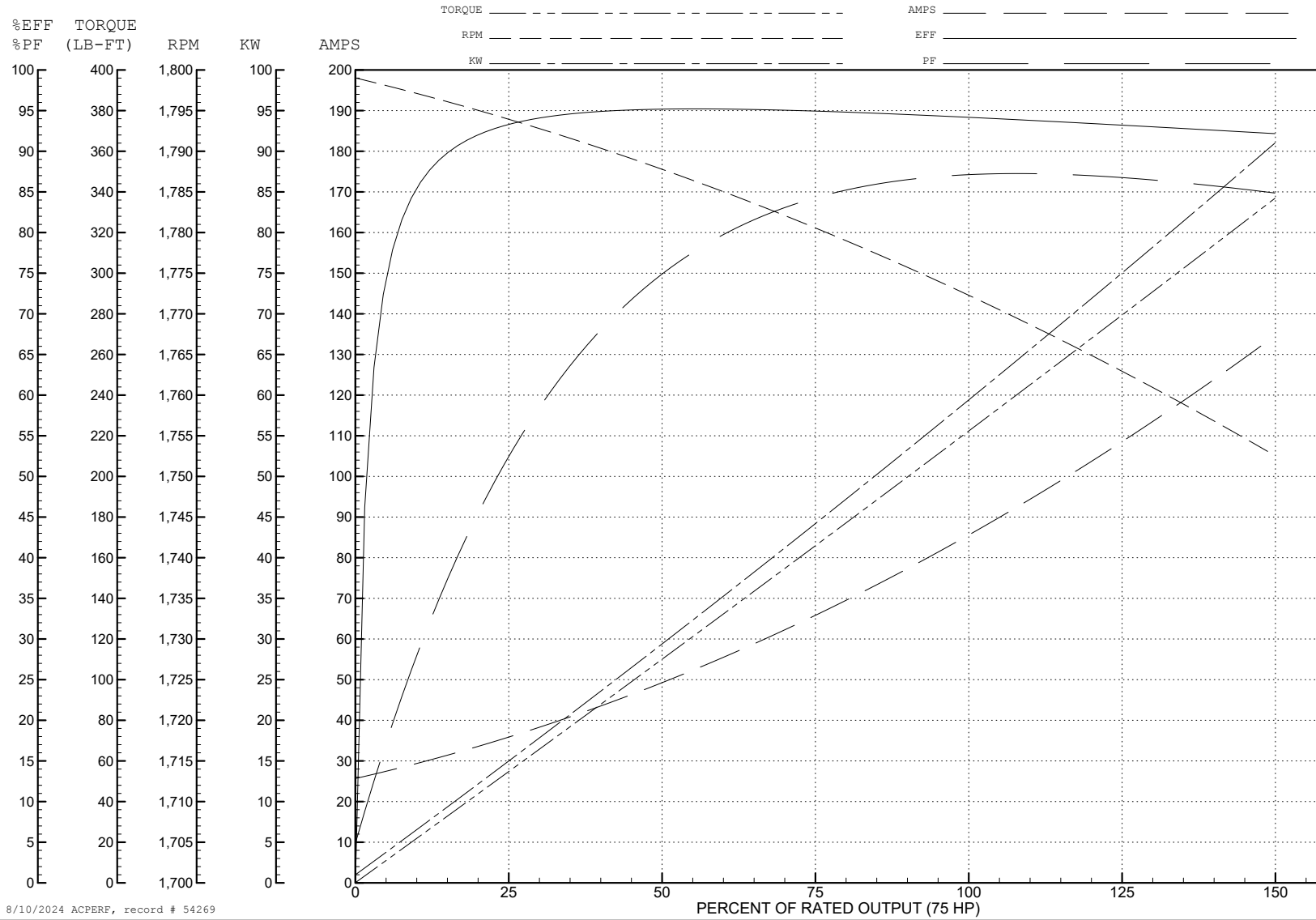
ABB Motors and Mechanical Inc.

WINDING # 42WGW977

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1772.3 RPM 460 V 4272M

TORQUES (LB-FT): PO=585 PU=301 LR=348 LRA=502



8/10/2024 ACPERF, record # 54269

**AC Induction Motor Performance Data**

Record # 54270

Typical performance - not guaranteed values

Winding: 42WGW977-R001		Type: 4272M	Enclosure: OPSB			
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>			
Rated Output (HP)	75//60		Full Load Torque	214 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	174/87//168/84		Breakdown Torque	567 LB-FT		
R.P.M.	1770//1470		Pull-up Torque	316 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	366 LB-FT	
NEMA Design Code	B		KVA Code	F	Starting Current	492 A
Service Factor (S.F.)	1.15		No-load Current	26.5 A		
NEMA Nom. Eff.	94.1	Power Factor	86		Line-line Res. @ 25°C	0.0893 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	58°C		
S.F. Amps			Temp. Rise @ S.F. Load	73°C		
			Locked-rotor Power Factor	29.4		
			Rotor inertia	9.59 LB-FT <sup>2</sup>		

**Load Characteristics 380 V, 50 Hz, 60 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	76	83	86	87	85	87
Efficiency	92.4	94.5	94.4	93.8	92.9	91.2	93.3
Speed	1494	1488	1481	1473	1465	1454	1468
Line amperes	33.1	47.1	64.6	84.2	106	131	97.3



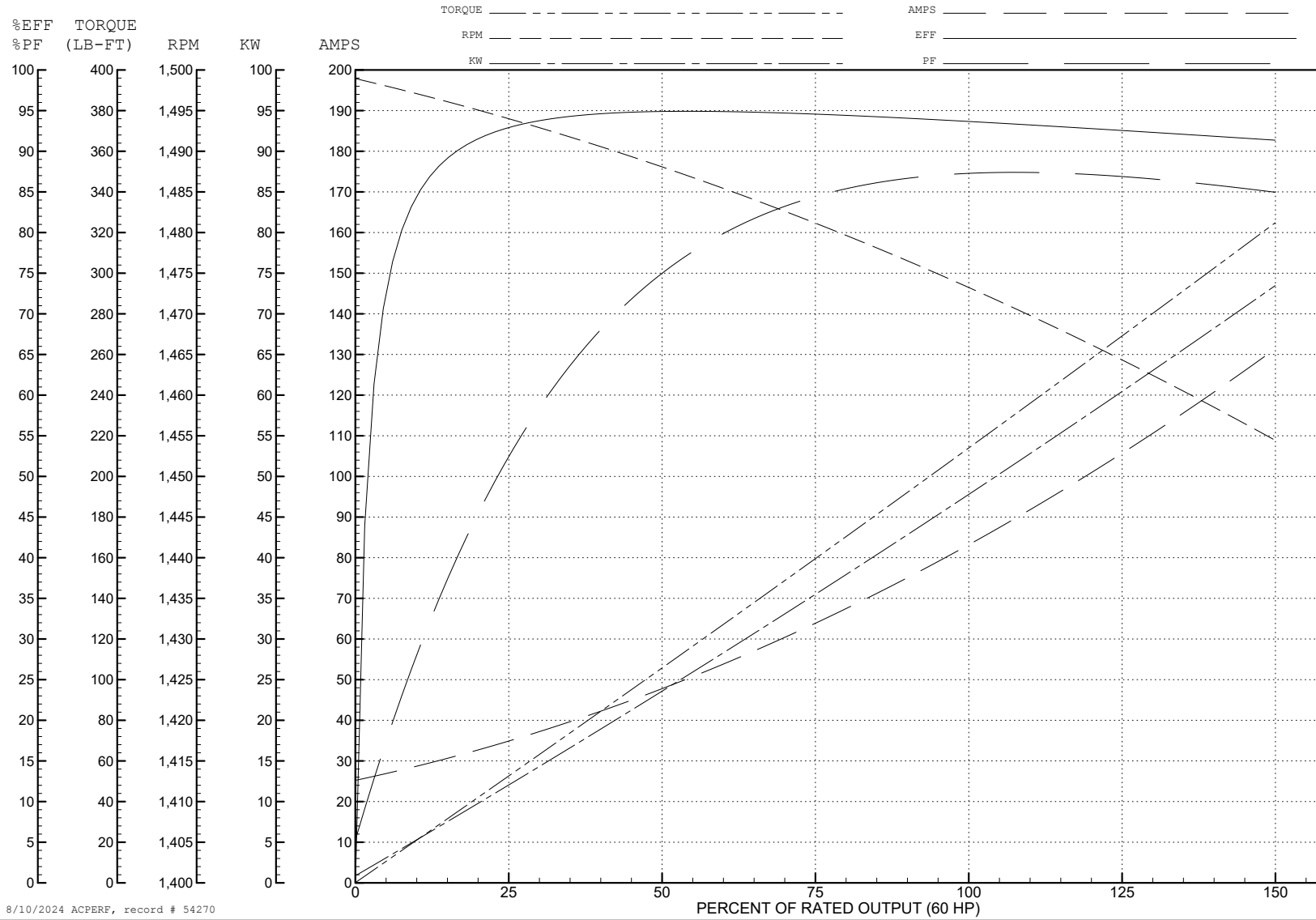
ABB Motors and Mechanical Inc.

WINDING # 42WGW977

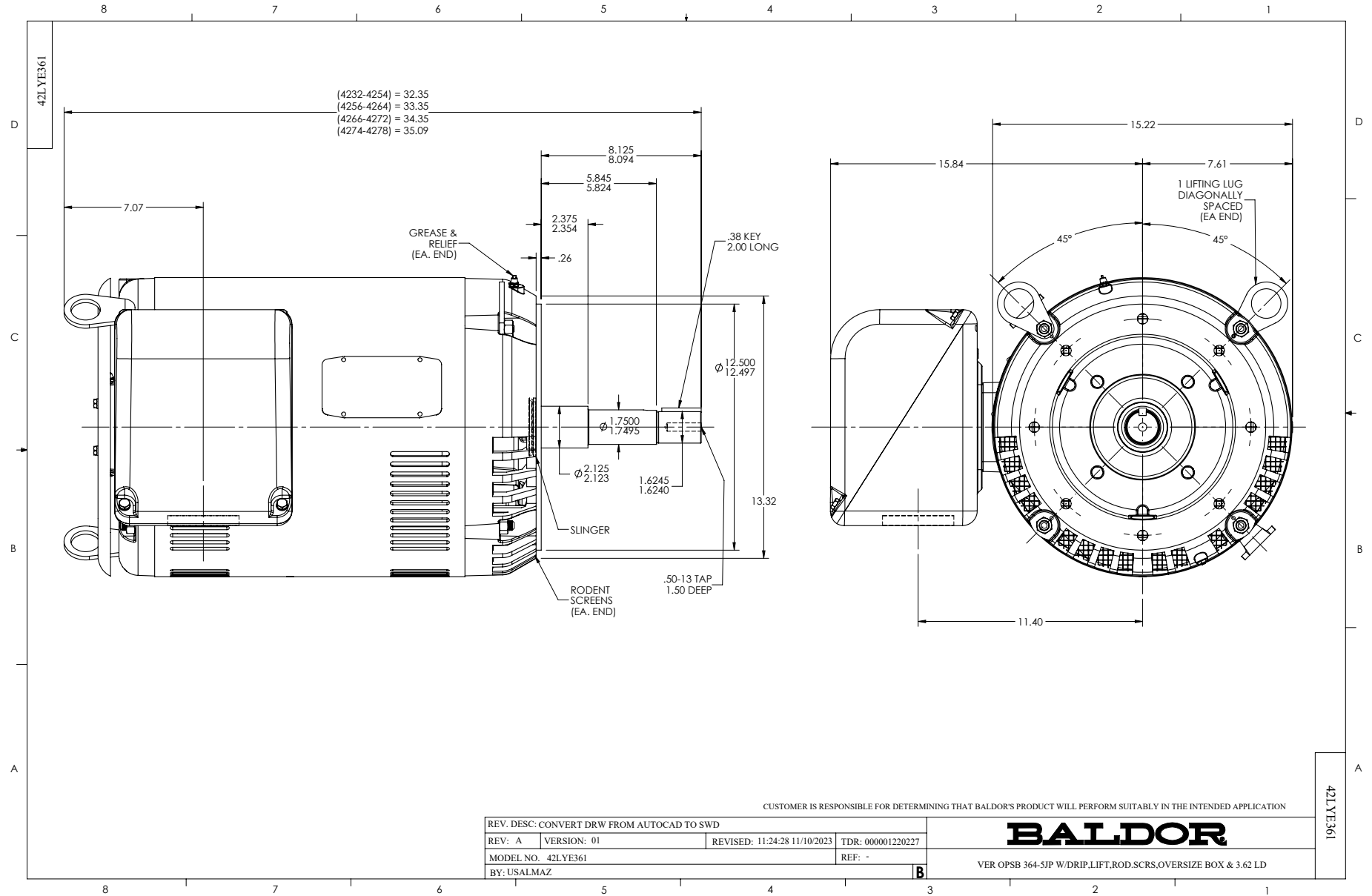
60 HP 3 PH 50 HZ 1473 RPM 380 V 4272M

Typical performance - not guaranteed values.

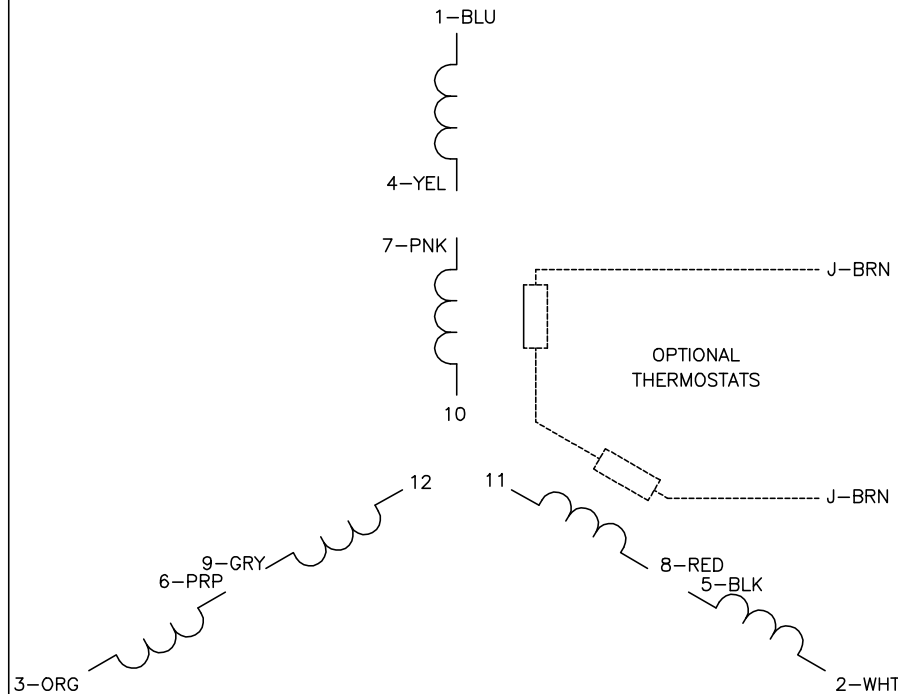
TORQUES (LB-FT): PO=567 PU=316 LR=366 LRA=492



8/10/2024 ACPERF, record # 54270

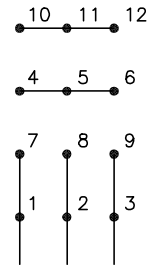


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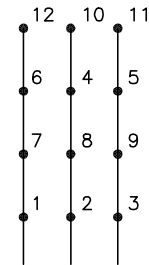
**LOW VOLTAGE**

START (2Y)



LINE

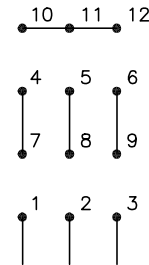
RUN (2D)



LINE

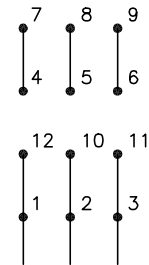
**HIGH VOLTAGE**

START (1Y)



LINE

RUN (1D)



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.

CD0104

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FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIRO
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3PH, DV, 12 LEADS, Y START/D RUN

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