

BALDOR • RELIANCE

Customer information packet

VJPFPM2549T

75//60HP, 3535//2940RPM, 3PH, 60//50HZ, 364J

Specifications

Enclosure	OPSB
Frame	364JP
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	3000 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	84.000 A @ 460.0 V 82.000 A @ 380.0 V 168.000 A @ 230.0 V 164.000 A @ 190.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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.	42WGW976
Layout	42LYE361
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	02
Leads	12#6
Proprietary	False
Created date	03-20-2017

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	82.0 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 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4250M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	32.50 IN
Power Factor	90
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	2940 rpm 3535 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3454L

CAT.NO.	VJPFPM2549T	CUST P/N		I.P.	23
SPEC.	42E361W976H2	SER.NO.		FRAME	364JP
HZ	60	HP	75	RPM	3535
				HZ	50
				HP	60
				RPM	2940
VOLTS	230/460	CODE	F	VOLTS	190/380
		CODE	F		
AMPS	168/84	DES	B	AMPS	164/82
		DES	B		
EFF	93	SER.F.	1.15	PF	90
				EFF	93
				SER.F.	1.15
				PF	90
RATING	40C AMB-CONT	DE BRG	6313	GREASE	POLYREX EM
BLANK		ODE BRG	6311	MTR. WT.	472
		CLASS	F	PH	3
		ENCL	OPSB	CC	010A
HTR-VOLTS		HTR-AMPS		HTR-WATTS	

AC Induction Motor Performance Data

Record # 54693

Typical performance - not guaranteed values

Winding: 42WGW976-R001		Type: 4250M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	75//60		Full Load Torque	112 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	168/84//164/82		Breakdown Torque	381 LB-FT	
R.P.M.	3535//2940		Pull-up Torque	111 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	148 LB-FT
NEMA Design Code	B KVA Code		F	Starting Current	509 A
Service Factor (S.F.)			1.15	No-load Current	19.8 A
NEMA Nom. Eff.	93	Power Factor	90	Line-line Res. @ 25°C	0.092782 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	41°C
S.F. Amps				Temp. Rise @ S.F. Load	52°C
				Locked-rotor Power Factor	21.3

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	84	89	90	90	89	90
Efficiency	92.4	94.5	94.5	93.8	92.8	91.5	93.2
Speed	3584.7	3571.7	3556.4	3538.6	3518	3495.6	3526
Line amperes	28.3	44.4	63	83.9	106	130	97.2

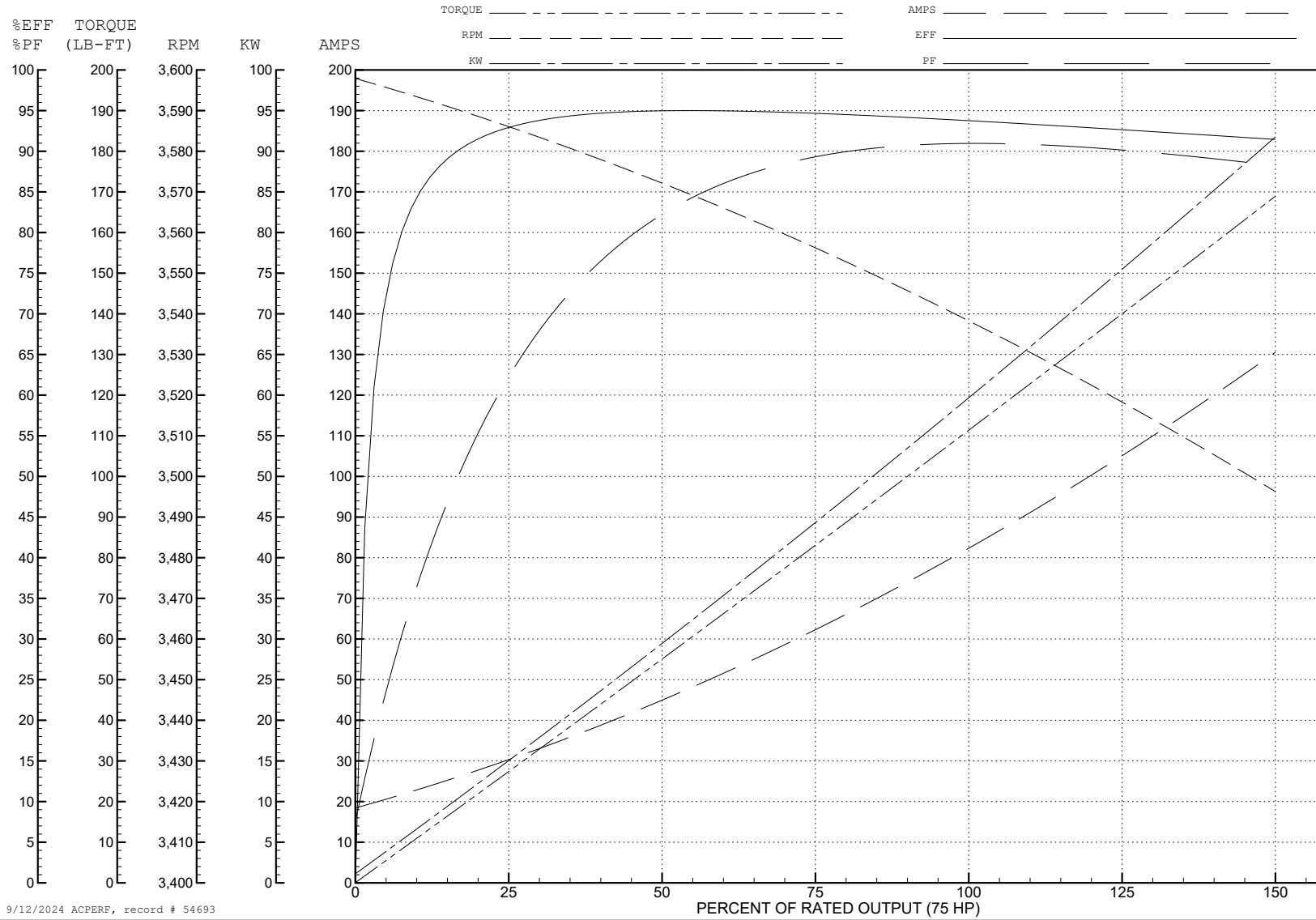
ABB Motors and Mechanical Inc.

WINDING # 42WGW976

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 3538.6 RPM 460 V 4250M

TORQUES (LB-FT): PO=381 PU=111 LR=148 LRA=509



9/12/2024 ACPERF, record # 54693

AC Induction Motor Performance Data

Record # 54695

Typical performance - not guaranteed values

Winding: 42WGW976-R001		Type: 4250M		Enclosure: OPSB	
Nameplate Data			380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	75//60		Full Load Torque	108 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	168/84//164/82		Breakdown Torque	368 LB-FT	
R.P.M.	3535//2940		Pull-up Torque	118 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	157 LB-FT
NEMA Design Code	B KVA Code		F	Starting Current	498 A
Service Factor (S.F.)			1.15	No-load Current	19.2 A
NEMA Nom. Eff.	93	Power Factor	90	Line-line Res. @ 25°C	0.0928 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	40°C
S.F. Amps				Temp. Rise @ S.F. Load	50°C
				Locked-rotor Power Factor	24
				Rotor inertia	3.91 LB-FT ²

Load Characteristics 380 V, 50 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	68	84	89	90	90	89	90
Efficiency	90.6	93.4	93.6	93.3	92.1	90.2	92.6
Speed	2985	2973	2958	2941	2922	2901	2930
Line amperes	27.6	43.3	61.5	81.8	103	127	94.5

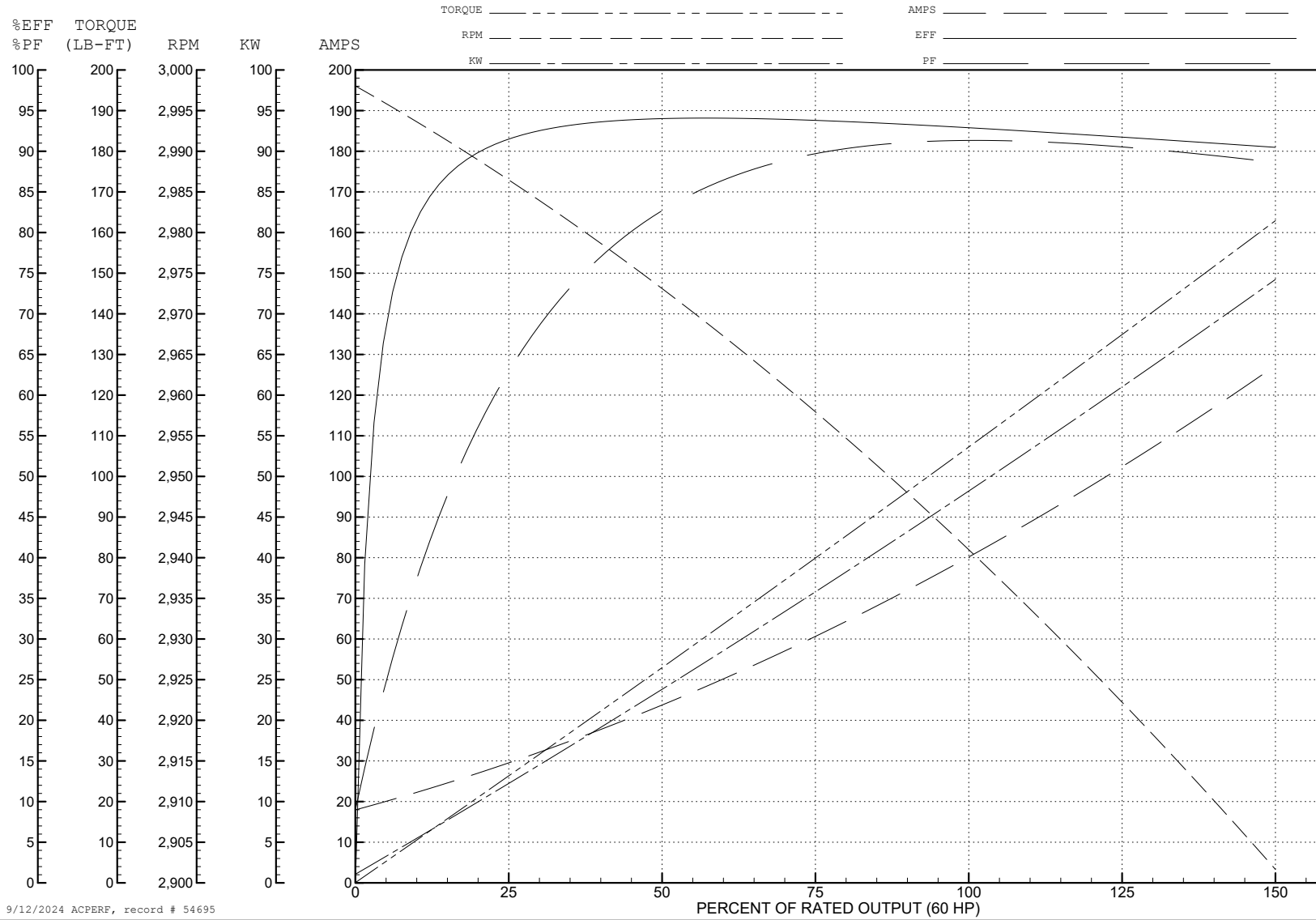
ABB Motors and Mechanical Inc.

WINDING # 42WGW976

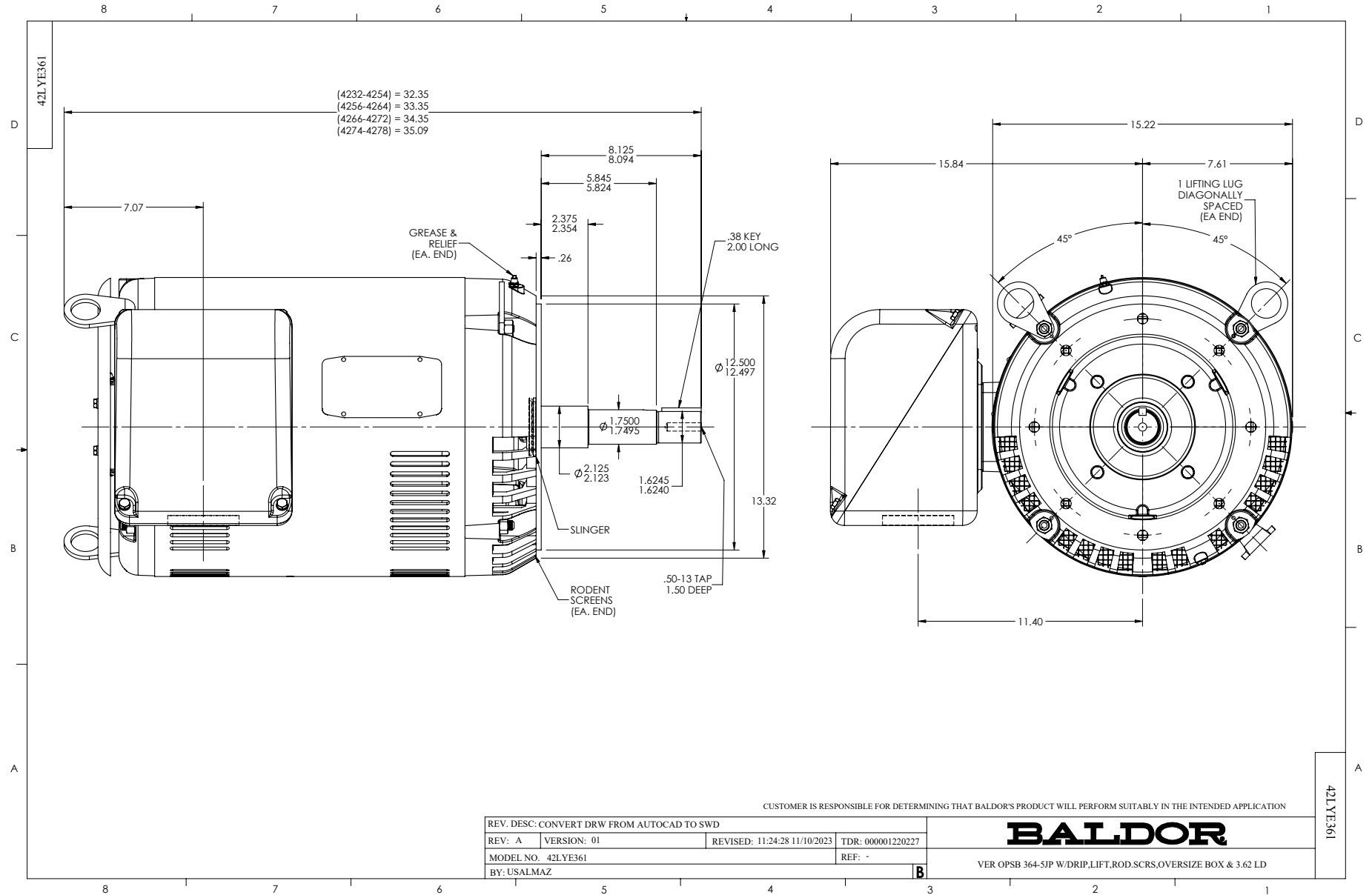
60 HP 3 PH 50 HZ 2941 RPM 380 V 4250M

Typical performance - not guaranteed values.

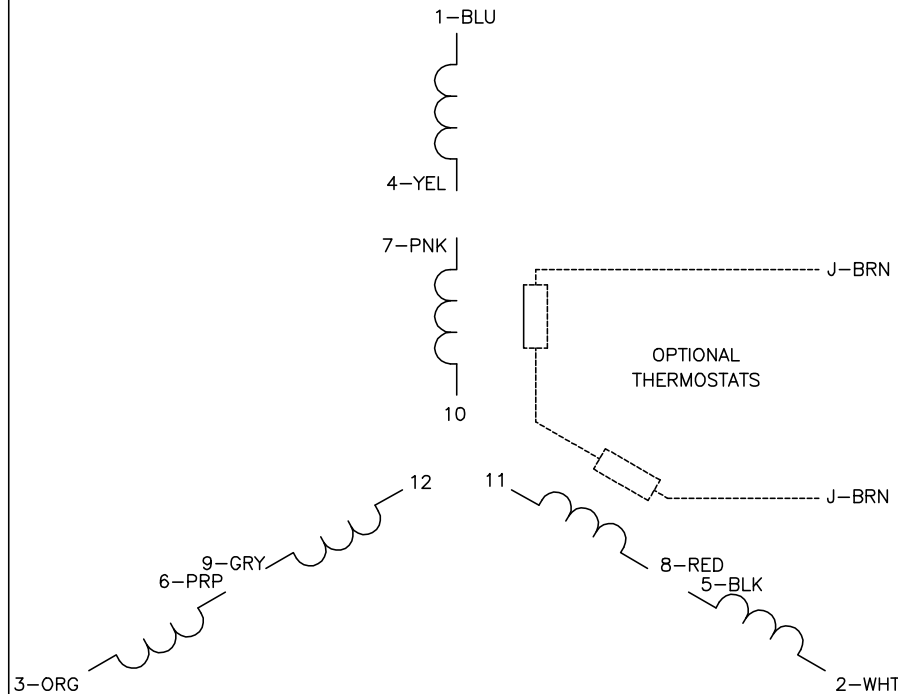
TORQUES (LB-FT): PO=368 PU=118 LR=157 LRA=498



9/12/2024 ACPERF, record # 54695

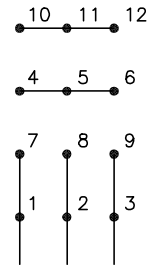


CD0104



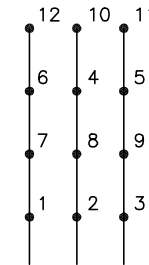
LOW VOLTAGE

START (2Y)



LINE

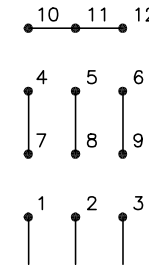
RUN (2D)



LINE

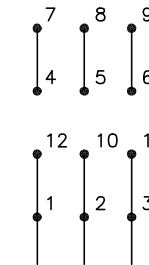
HIGH VOLTAGE

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

REV. DESC: ADD CLASS CONN00000007		
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FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, DV, 12 LEADS, Y START/D RUN

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