

BALDOR • RELIANCE

Customer information packet

VJPFPM2550T

100//75HP, 3530//2940RPM, 3PH, 60//50HZ, 365

Specifications

Enclosure	OPSB
Frame	365JP
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ 75.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 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	248.000 A @ 208.0 V 226.000 A @ 230.0 V 206.000 A @ 190.0 V 113.000 A @ 460.0 V 103.000 A @ 380.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part detail

Revision	E
Type	AC
Mech. spec.	42E361
Base	
Status	PRD/A
Elec. spec.	42WGW975
Layout	42LYE361
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	02
Leads	12#6
Proprietary	False
Created date	03-20-2017

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	103.0 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	4260M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	33.50 IN
Power Factor	89
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 3530 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.	VJPFPM2550T	CUST P/N		I.P.	23
SPEC.	42E361W975H2	SER.NO.		FRAME	365JP
HZ	60	HP	100	RPM	3530
				HZ	50
				HP	75
				RPM	2940
VOLTS	230/460	CODE	F	VOLTS	190/380
		CODE	G		
AMPS	226/113	DES	B	AMPS	206/103
		DES	B		
EFF	93	SER.F.	1.15	PF	89
				EFF	92.4
				SER.F.	1.15
				PF	89
RATING	40C AMB-CONT	DE BRG	6313	GREASE	POLYREX EM
BLANK		ODE BRG	6311	MTR. WT.	553
		CLASS	F	PH	3
		ENCL	OPSB	CC	010A
HTR-VOLTS		HTR-AMPS		HTR-WATTS	

AC Induction Motor Performance Data

Record # 52862

Typical performance - not guaranteed values

Winding: 42WGW975-R001		Type: 4260M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	100//75		Full Load Torque	148 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	226/113//206/103		Breakdown Torque	508 LB-FT	
R.P.M.	3530//2940		Pull-up Torque	202 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	246 LB-FT
NEMA Design Code	B KVA Code		F	Starting Current	690 A
Service Factor (S.F.)			1.15	No-load Current	26.8 A
NEMA Nom. Eff.	93	Power Factor	89	Line-line Res. @ 25°C	0.0651 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	57°C
S.F. Amps				Temp. Rise @ S.F. Load	69°C
				Locked-rotor Power Factor	21.2
				Rotor inertia	4.69 LB-FT ²

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	83	87	89	88	87	88
Efficiency	91.8	94	93.8	93.1	92	90.5	92.4
Speed	3587	3572	3555	3536	3515	3491	3523
Line amperes	38.9	60.5	86	113	143	175	131

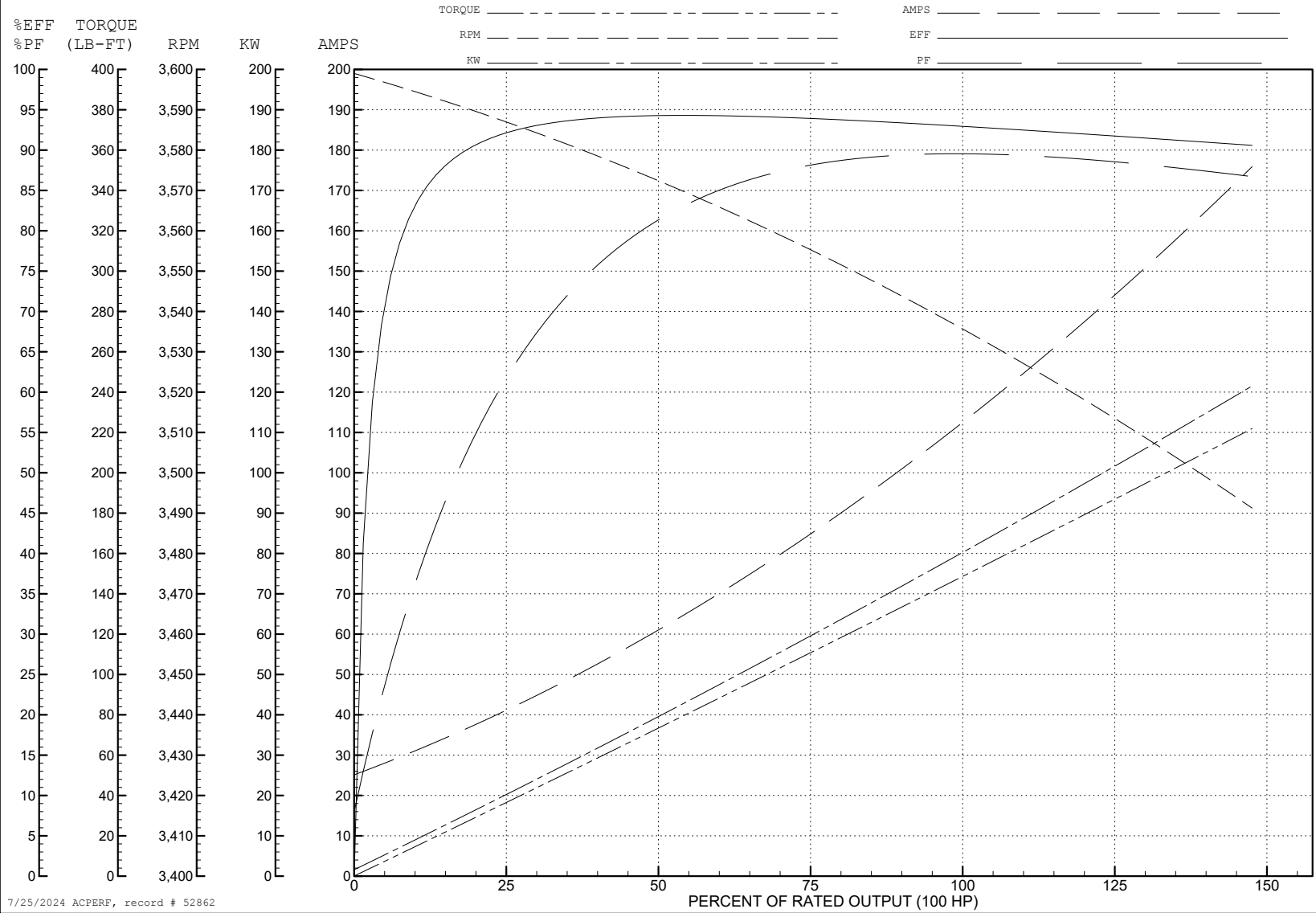
ABB Motors and Mechanical Inc.

WINDING # 42WGW975

100 HP 3 PH 60 HZ 3536 RPM 460 V 4260M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=508 PU=202 LR=246 LRA=690



7/25/2024 ACPERF, record # 52862

AC Induction Motor Performance Data

Record # 52863

Typical performance - not guaranteed values

Winding: 42WGW975-R001		Type: 4260M	Enclosure: OPSB			
Nameplate Data			380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)	100//75		Full Load Torque	133 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	226/113//206/103		Breakdown Torque	492 LB-FT		
R.P.M.	3530//2940		Pull-up Torque	214 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	261 LB-FT	
NEMA Design Code	B		KVA Code	F	Starting Current	676 A
Service Factor (S.F.)	1.15		No-load Current	26.3 A		
NEMA Nom. Eff.	93	Power Factor	89		Line-line Res. @ 25°C	0.0651 Ω
Rating - Duty	40C		AMB-CONT	Temp. Rise @ Rated Load	49°C	
S.F. Amps				Temp. Rise @ S.F. Load	60°C	
				Locked-rotor Power Factor	23.9	
				Rotor inertia	4.69 LB-FT ²	

Load Characteristics 380 V, 50 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	82	87	89	88	88	88
Efficiency	91.9	94	93.8	92.7	91.9	90.1	92.2
Speed	2988	2975	2960	2943	2925	2904	2932
Line amperes	36.6	55.7	78.6	103	130	158	119

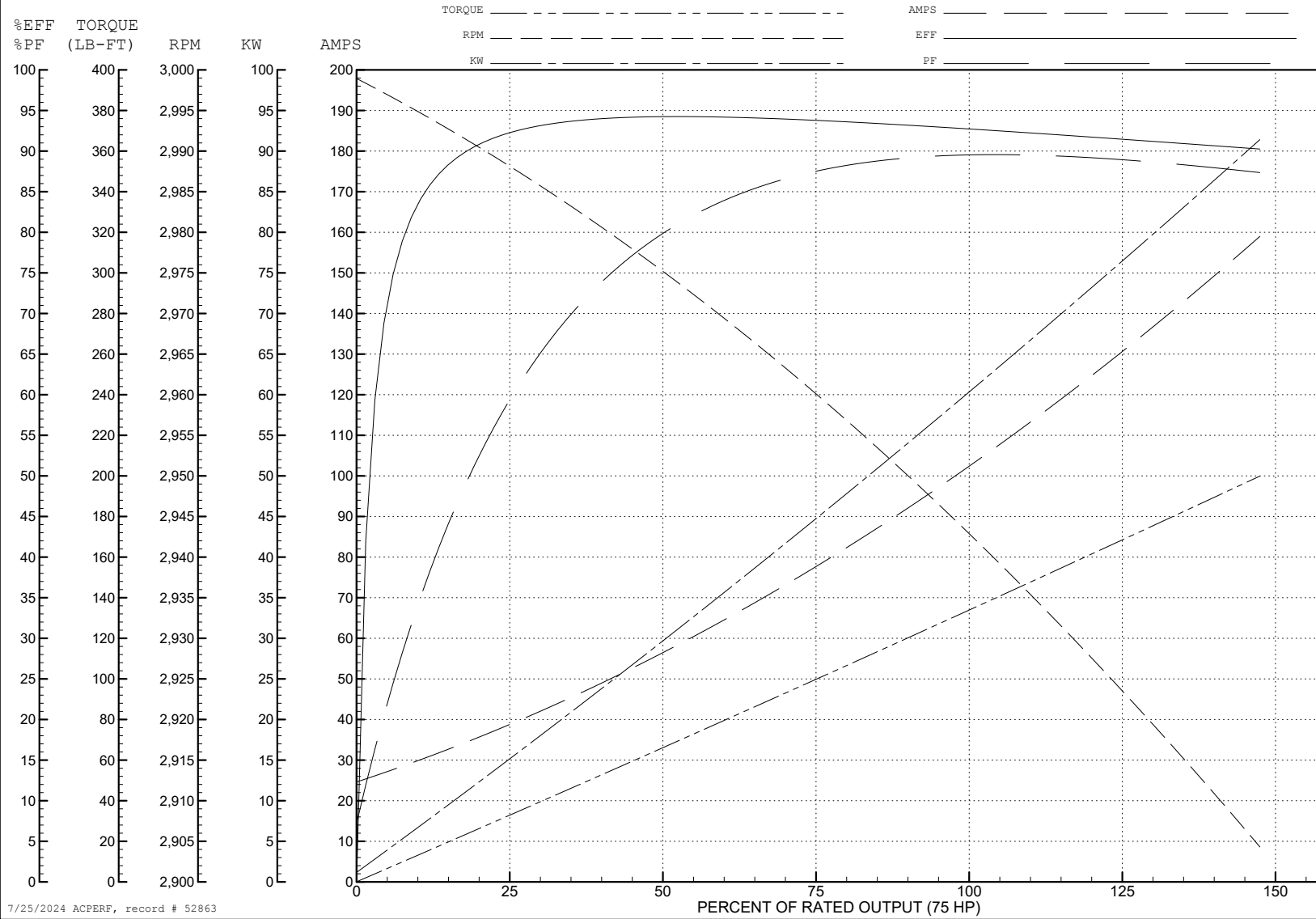
ABB Motors and Mechanical Inc.

WINDING # 42WGW975

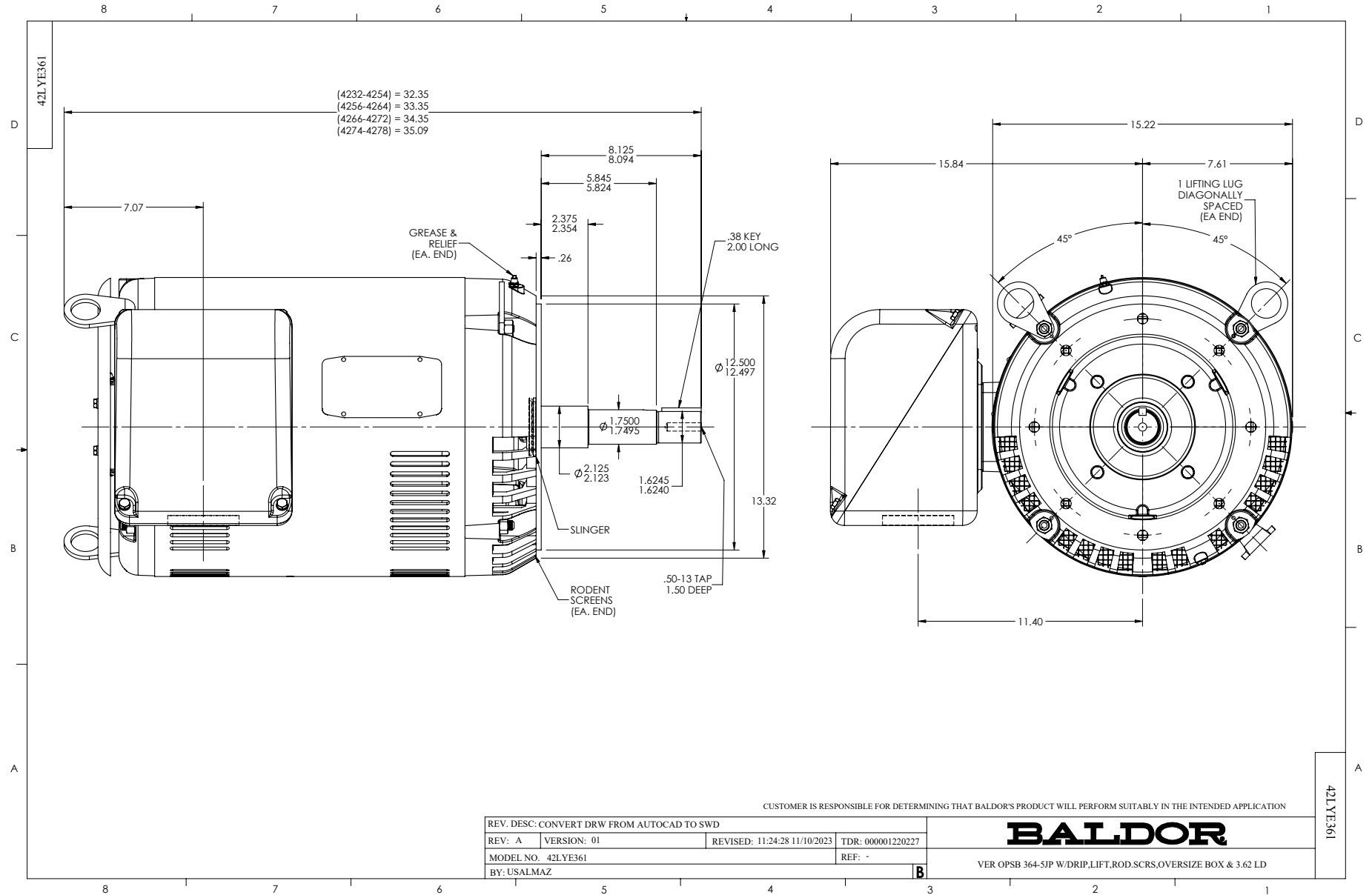
75 HP 3 PH 50 HZ 2943 RPM 380 V 4260M

Typical performance - not guaranteed values.

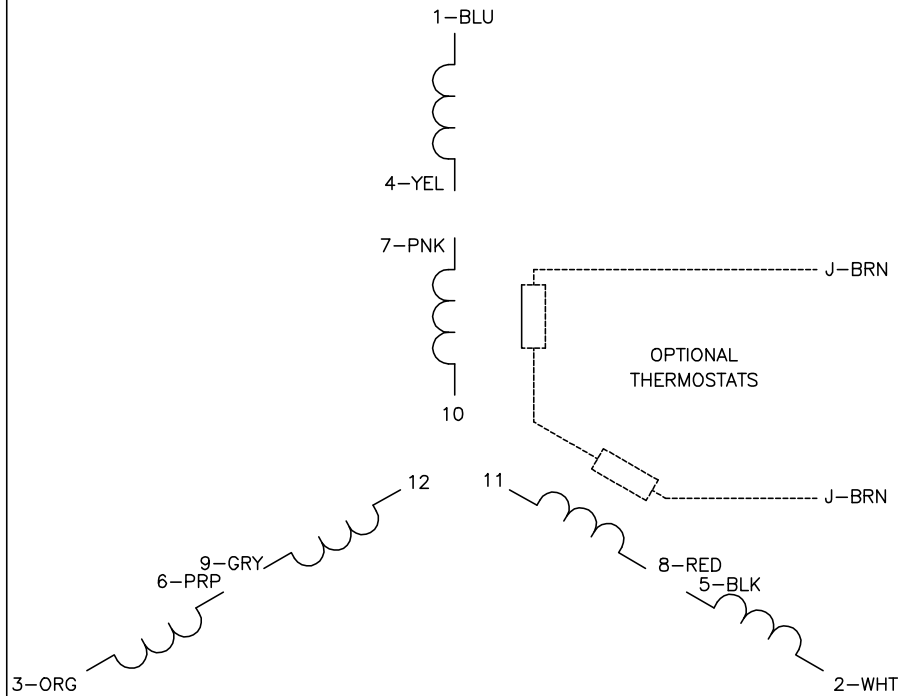
TORQUES (LB-FT): PO=492 PU=214 LR=261 LRA=676



7/25/2024 ACPERF, record # 52863

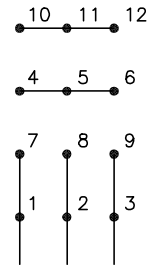


CD0104



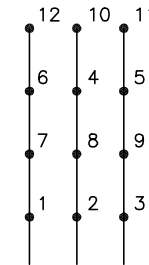
LOW VOLTAGE

START (2Y)



LINE

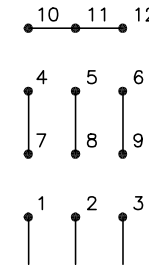
RUN (2D)



LINE

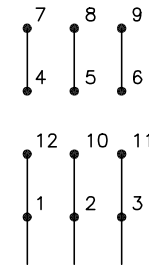
HIGH VOLTAGE

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		
REV. LTR: D	VERSION: 01	TDR: 000001099922
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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