ABB BALDOR RELIANCE

Customer information packet

CEM2549T

75HP, 3540RPM, 3PH, 60HZ, 364TSC, OPSB, F1

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11/16/2026 6:41:08 AM

Specifications

Enclosure	OPSB
Frame	364TSC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	82.000 A @ 460.0 V
	164.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	82.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WGW903
Layout	42LY-000-021
Eff. date	02-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	03-06-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4254M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.81 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2138L												
CAT.NO.	CEM2549T		**P/N**			**ENCLOSURE**	OPSB					
SPEC.	42-0000843	**CC**	010A	**FRAME**	364TSC	**S/N**						
HP	75		**CLASS**	F	**HZ**	60						
RPM	3540		**PH**	3	**DES**	A						
VOLT	230/460				**KVA-CODE**	G	**ODE BRG**	6311	**DE BRG**	6313		
AMP	164/82											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	93.6	**PF**	91	**SER.F.**	1.15							
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 33387
Typical performance - not guaranteed values

Winding: 42WGW903-R001	**Type:** 4254M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			75	**Full Load Torque**	111 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			164/82	**Breakdown Torque**	382 LB-FT
R.P.M.			3540	**Pull-up Torque**	135 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	172 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	556 A
Service Factor (S.F.)			1.15	**No-load Current**	18.5 A
NEMA Nom. Eff.	93.6	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.0817 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	42°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C
				Locked-rotor Power Factor	22
				Rotor inertia	4.22 LB-FT2

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	86	90	91	90	89	90
Efficiency	93	95.1	95	94.3	93.7	92.6	94
Speed	3588	3574	3558	3540	3521	3500	3529
Line amperes	26.4	43	61.6	81.5	103	126	94.4

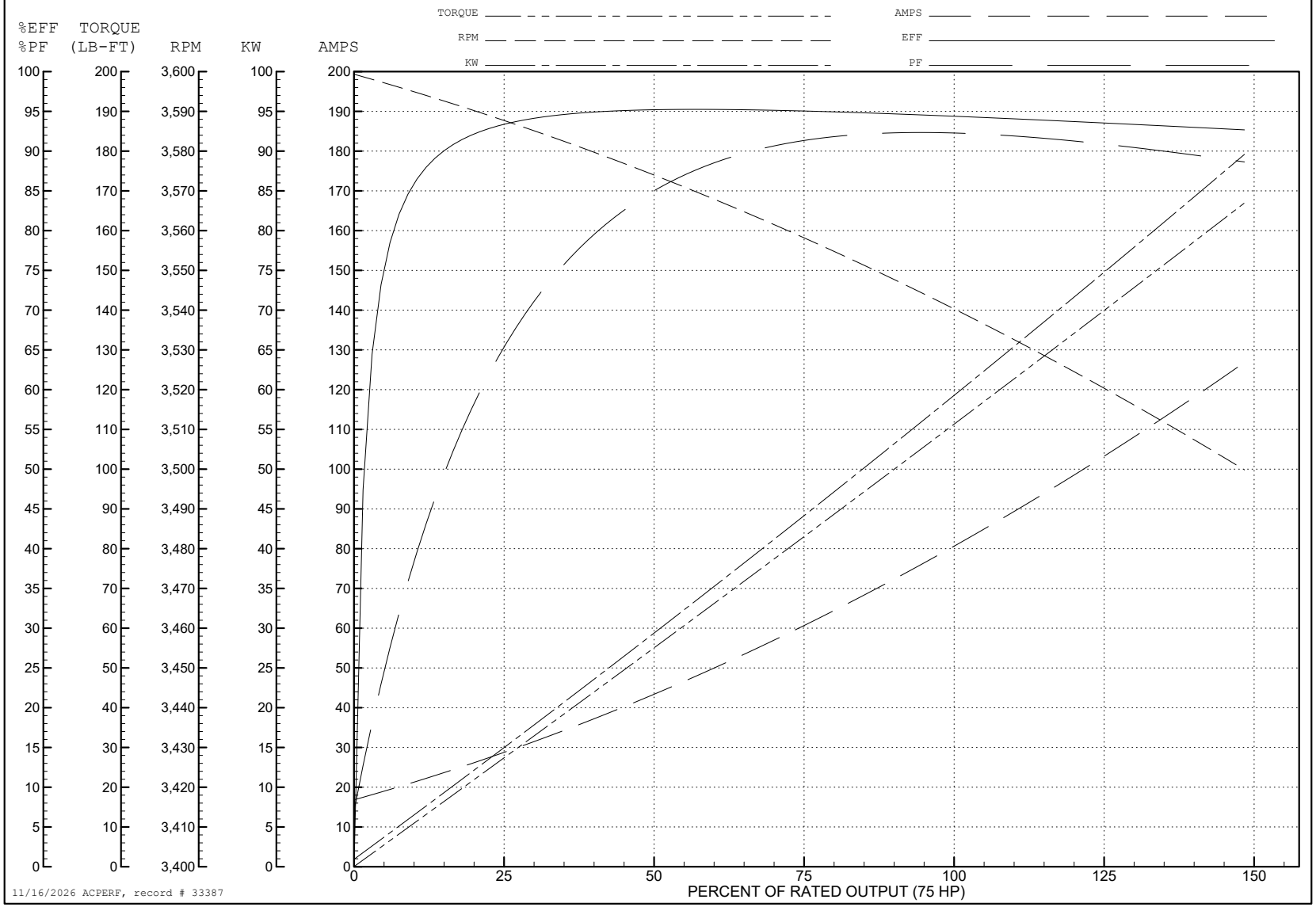
ABB Motors and Mechanical Inc.

WINDING # 42WGW903

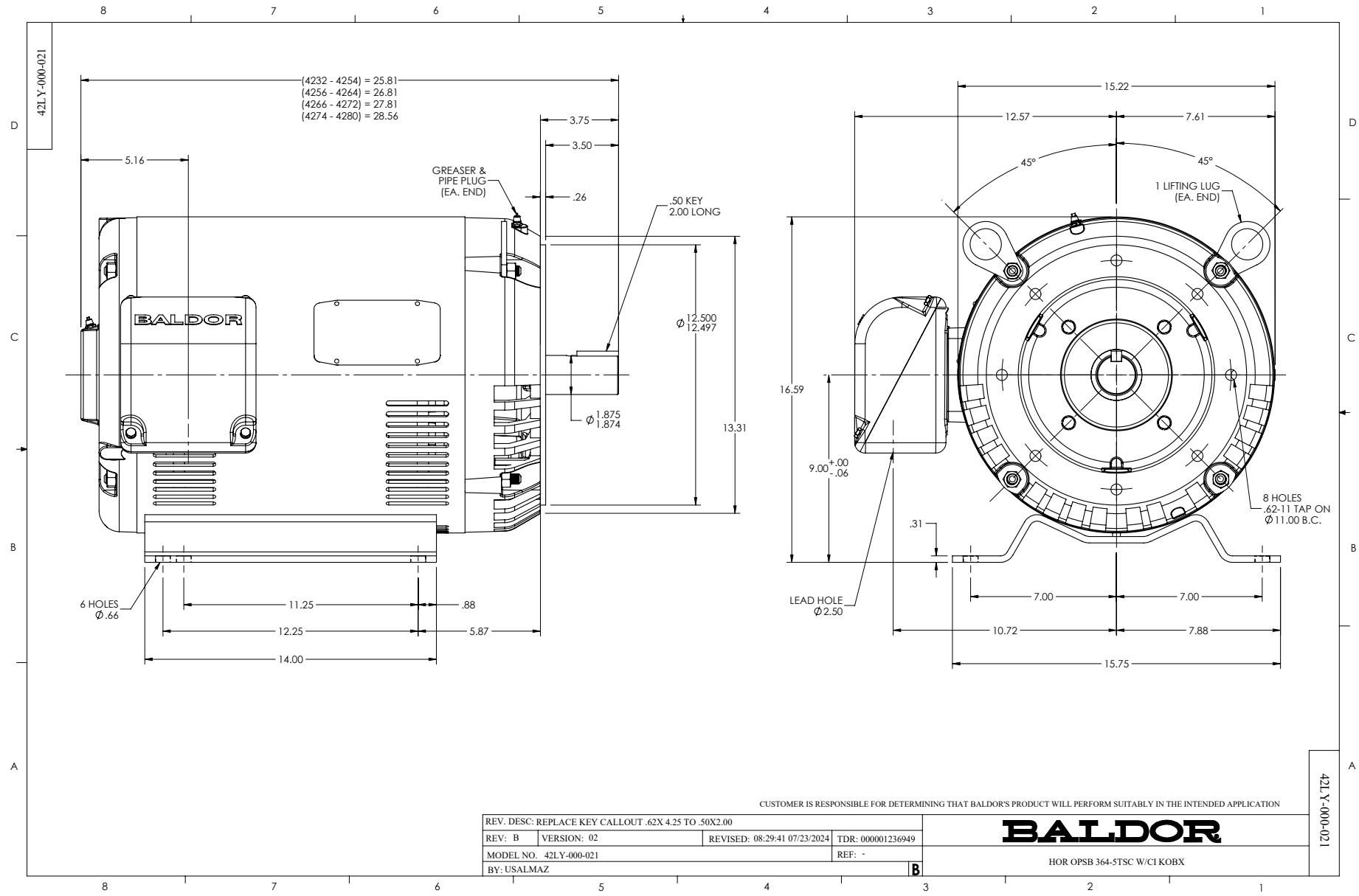
75 HP 3 PH 60 HZ 3540 RPM 460 V 4254M

Typical performance - not guaranteed values.

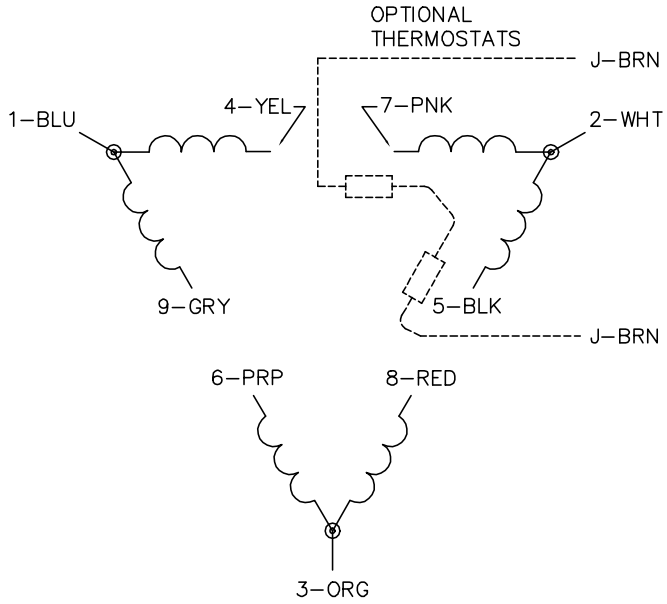
TORQUES(LB-FT): PO=382 PU=135 LR=172 LRA=556

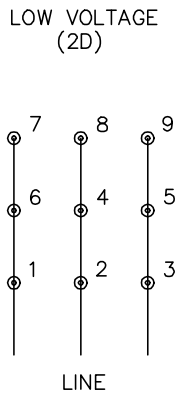


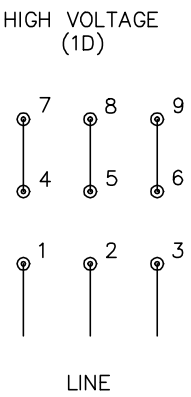
11/16/2026 ACPERF, record # 33387


42LY-000-021
(4232 - 4254) = 25.81
(4256 - 4264) = 26.81
(4266 - 4272) = 27.81
(4274 - 4280) = 28.56
3.75
3.50
5.16
GREASER & PIPE PLUG (EA. END)
.26
.50 KEY 2.00 LONG
BALDOR
Ø 12.500 12.497
Ø 1.875 1.874
13.31
6 HOLES Ø .66
11.25
.88
12.25
5.87
14.00
15.22
12.57
7.61
45°
45°
1 LIFTING LUG (EA. END)
16.59
9.00 +.00 -.06
8 HOLES .62-11 TAP ON Ø11.00 B.C.
.31
LEAD HOLE Ø2.50
7.00
7.00
10.72
7.88
15.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REPLACE KEY CALLOUT .62X 4.25 TO .50X2.00
REV: B
VERSION: 02
REVISED: 08:29:41 07/23/2024
TDR: 000001236949
MODEL NO. 42LY-000-021
REF: -
BY: USALMAZ
B
BALDOR
HOR OPSB 364-5TSC W/CI KOBX
42LY-000-021

CD0180







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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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