

BALDOR • RELIANCE

Customer information packet

CEM2549T

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

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	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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
Current @ Voltage	164.000 A @ 230.0 V 82.000 A @ 460.0 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

Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WG903
Layout	42LY-000-021
Eff. date	02-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	03-06-2020

IP Rating	NONE
KVA Code	G
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. @ 25°C	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-FT ²	

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

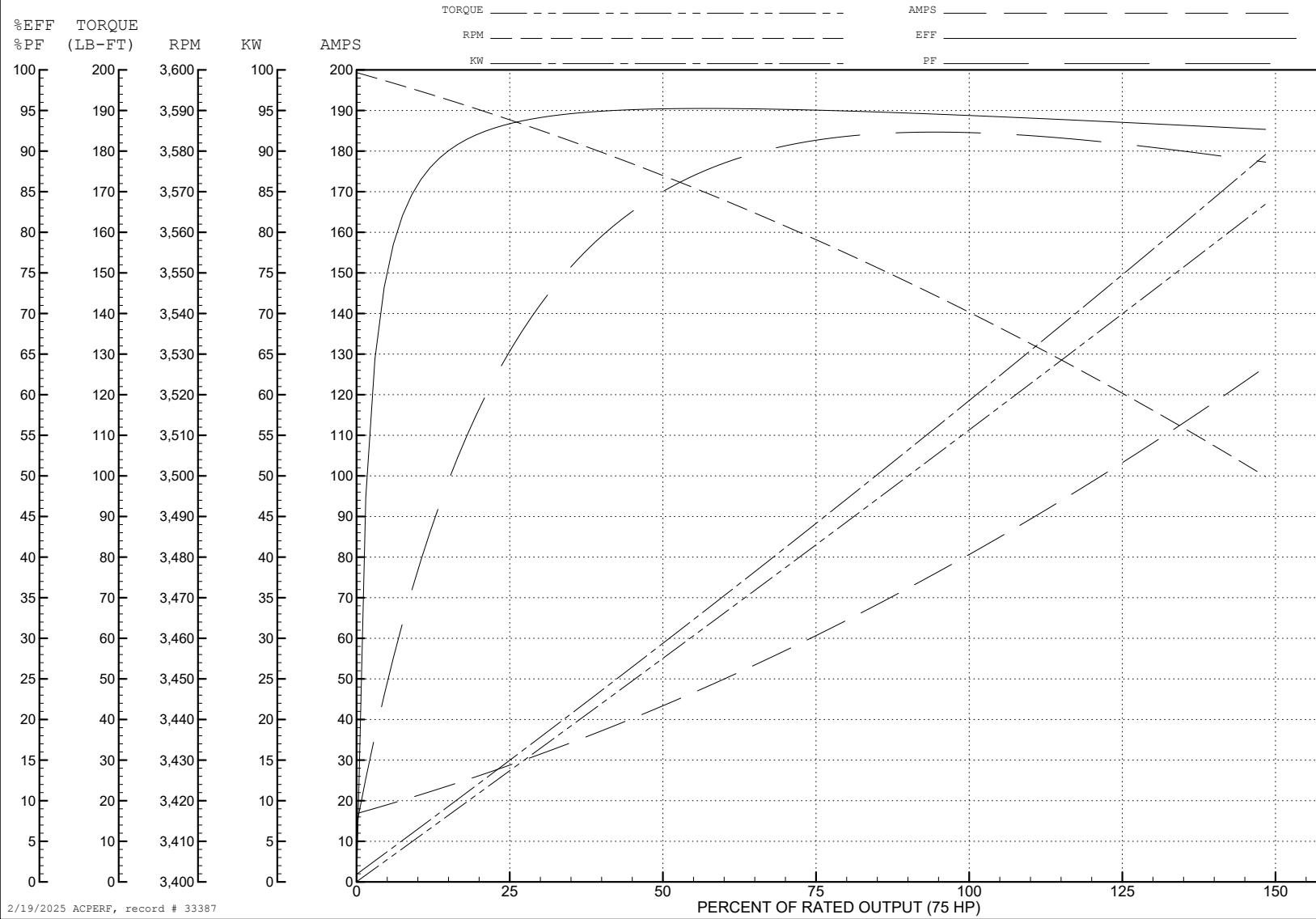
ABB Motors and Mechanical Inc.

WINDING # 42WGW903

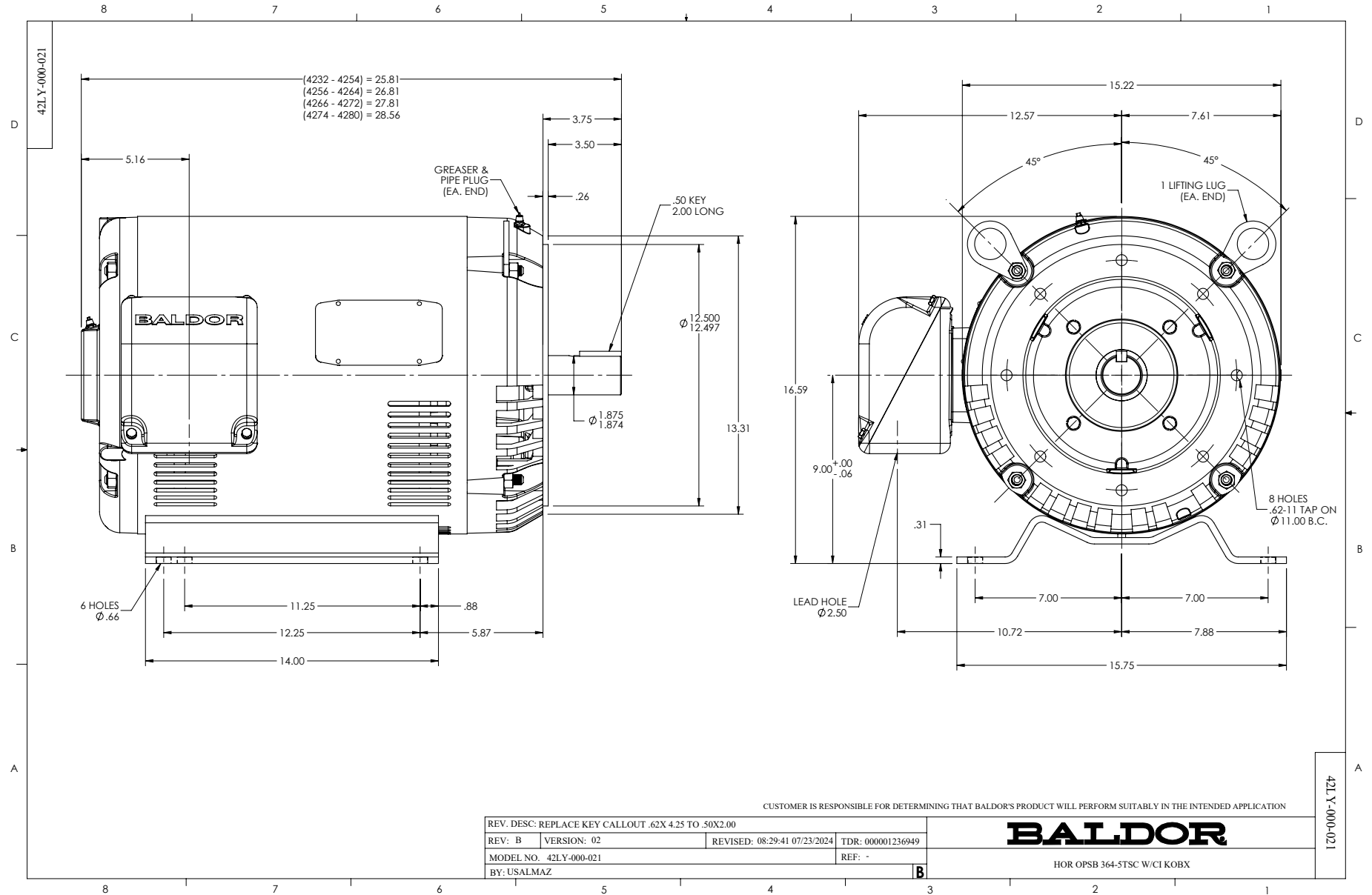
Typical performance - not guaranteed values.

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

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



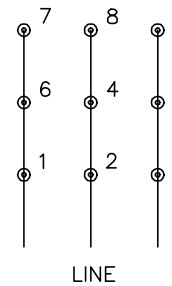
2/19/2025 ACPERF, record # 33387



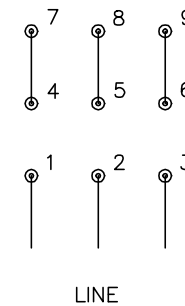
CD0180



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		
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3PH, DV, 9 LEADS, DELTA CONNECTION

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