

ABB BALDOR RELIANCE III

Customer information packet

CEM2549T-G

75HP, 3535RPM, 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 CSA EEV NEMA PREMIUM UR
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	168.000 A @ 230.0 V 84.000 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	84.0 a
Insulation Class	H
Inverter Code	Inverter Duty

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WGX343
Layout	42LY-000-037
Eff. date	06-27-2024
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	09-16-2020

IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4250M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.81 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3535 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

NP3554LUA												
CAT.NO.	CEM2549T-G				P/N						ENCL	OPSB
SPEC.	42-0000-0090	CC	010A	FRAME		364TSC	SER.NO.					
HP	75		CLASS		H	HZ	60					
RPM	3535		PH	3	DES		A					
VOLTS	230/460			CODE		F	ODE BRG	6311	DE BRG	6313		
AMPS	168/84											
RATING	40C AMB-CONT		NEMA-NOM-EFF				93.6	GREASE	POLYREX EM			
PF	90	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)							
USABLE AT	50HZ 60HP 190/380V 204/102A				SF1.0							
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.										

AC Induction Motor Performance Data

Record # 69619

Typical performance - not guaranteed values

Winding: 42WGX343-R001			Type: 4250M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		75		Full Load Torque		112 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		168/84		Breakdown Torque		381 LB-FT	
R.P.M.		3535		Pull-up Torque		111 LB-FT	
Hz	60	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.		93.6	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

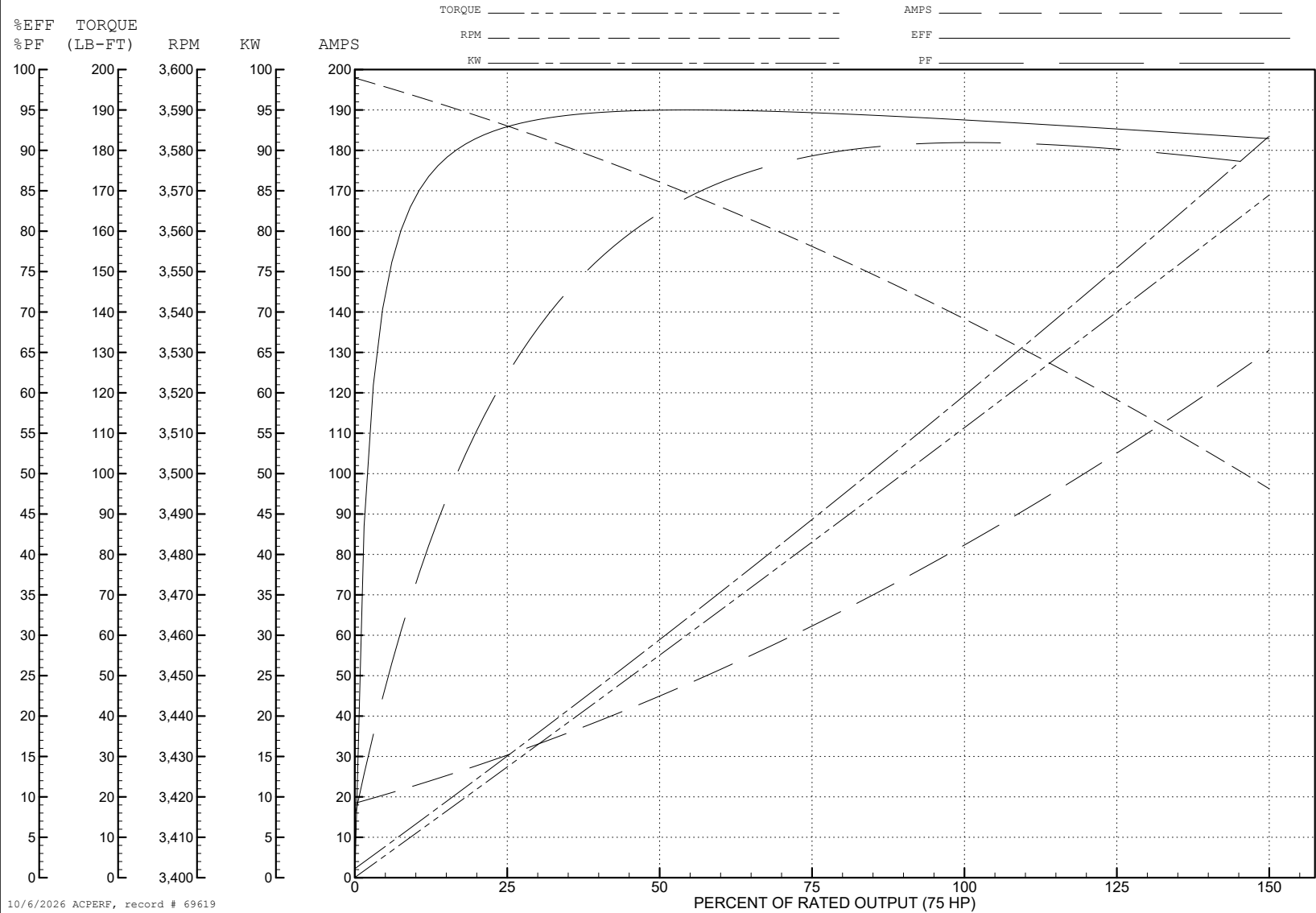
ABB Motors and Mechanical Inc.

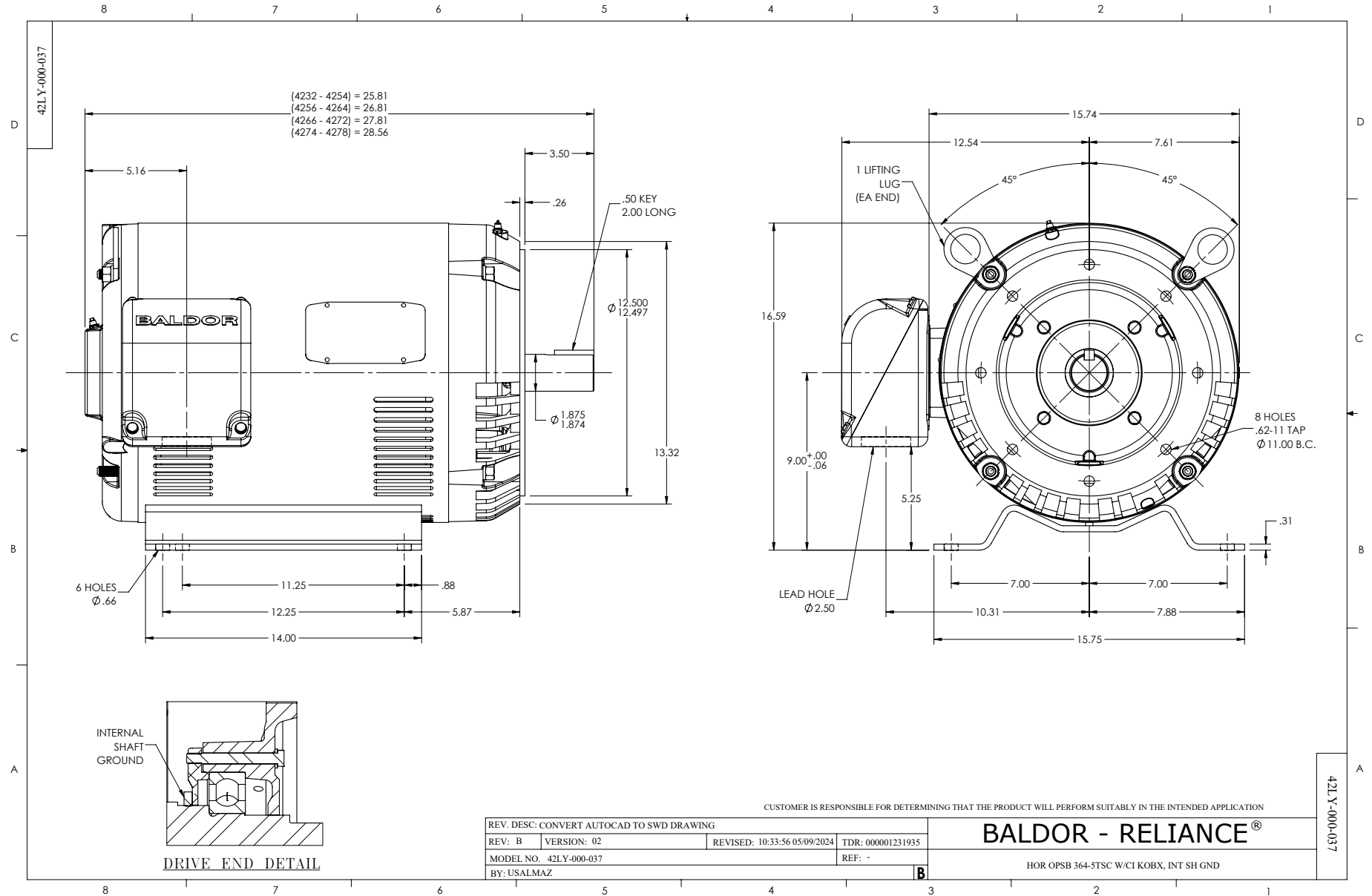
WINDING # 42WGX343

Typical performance - not guaranteed values.

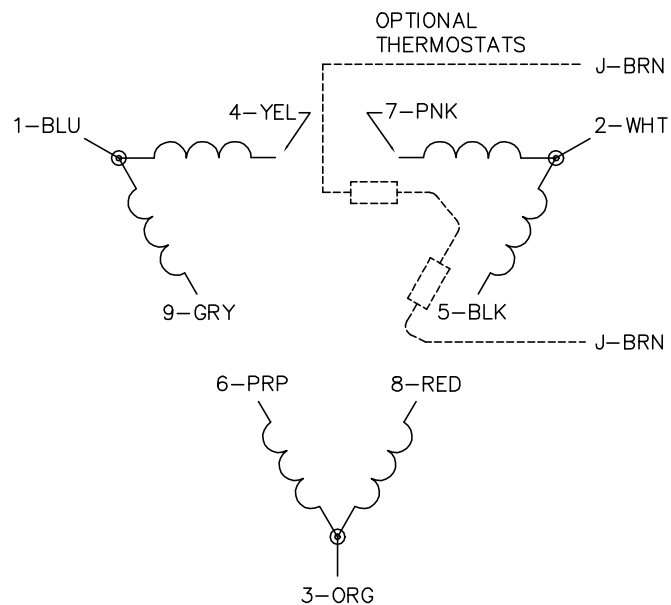
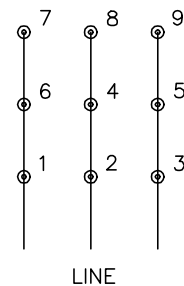
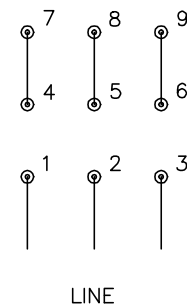
75 HP 3 PH 60 HZ 3535 RPM 460 V 4250M

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





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.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180