BALDOR • RELIANCE

Customer information packet

GNEM3614T

2HP//1.5KW, 1175//970RPM, 3PH, 60//50HZ, 184
Class - None
Division - Not Applicable

12/22/2025 2:37:54 PM

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
	1.500 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CE
	WEEE
	UKCA
	CURUSEEV
	IE3
	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	7.600 A @ 190.0 V
	6.800 A @ 208.0 V
	6.600 A @ 230.0 V
	3.800 A @ 380.0 V

Part detail

Revision	A
Type	AC
Mech. spec.	36Q570
Base	
Status	PRD/A
Elec. spec.	36WGR900
Layout	36LYQ570
Eff. date	05-10-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	09-12-2023

	3.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.05 IN
Power Factor	64
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1175 rpm
	970 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

NP4304L										
CAT.NO.	GNEM3614T									
SPEC.	36Q570R900G1									
HP	2HP//1.5KW				**PH**	3				
VOLTS	208-230/460//190/380									
AMPS	6.8-6.6/3.3//7.6/3.8									
R.P.M. (1/MIN)	1175//970				**WT.**	46KG	**KG**			
FRAME	184T	**HZ**	60//50		**I.P.**	44				
SER.F.	1.15	**CODE**	L	**DES.**	B	**CLASS**	F			
NOM.EFF.	88.5//82.5	**% (100%)**								
P.F.	64	IC411, 10:1 VT								
RATING	40C AMB-S1 CONT			**CC**	010A					
DE	6206	**ODE**	6205							
ENCL	TEFC	**SN**								
	SFA 7.6-7.2/3.6//8.4/4.2									
	IE3-50HZ 88.3(75%),87.3(50%)									
	IE3-60HZ 88.2(75%),86.1(50%)									

AC Induction Motor Performance Data
Record # 101009
Typical performance - not guaranteed values

Winding: 36WGR900-R016	**Type:** 3646M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			2
Volts			208-230/460//190/380
Full Load Amps			6.8-6.6/3.3//7.6/3.8
R.P.M.			1175//970
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	88.5	**Power Factor**	64
Rating - Duty			40C AMB-CONT
S.F. Amps			7.6-7.2/3.6//8.4/4.2

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	8.92 LB-FT
Start Configuration	direct on line
Breakdown Torque	36.4 LB-FT
Pull-up Torque	19.5 LB-FT
Locked-rotor Torque	25.4 LB-FT
Starting Current	25 A
No-load Current	2.19 A
Line-line Res. @ 25ºC	4.66 Ω
Temp. Rise @ Rated Load	34°C
Temp. Rise @ S.F. Load	40°C
Locked-rotor Power Factor	29.2
Rotor inertia	0.432 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	43	55	64	69	72	67
Efficiency	77.9	86.1	88.2	88.8	88.5	87.5	88.6
Speed	1196	1190	1184	1177	1170	1162	1173
Line amperes	2.28	2.53	2.89	3.32	3.83	4.42	3.63

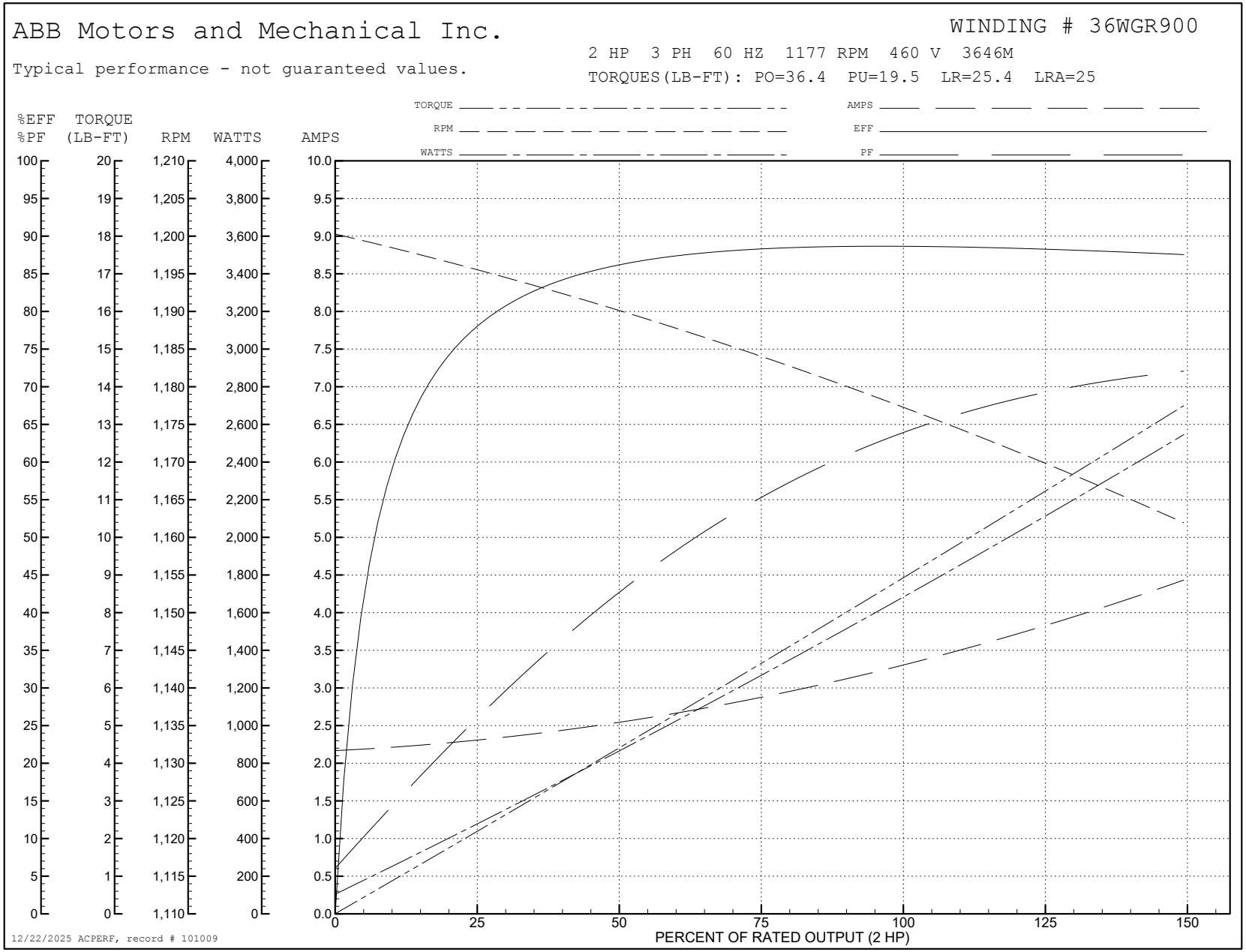


ABB Motors and Mechanical Inc.
WINDING # 36WGR900
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1177 RPM 460 V 3646M
TORQUES(LB-FT): PO=36.4 PU=19.5 LR=25.4 LRA=25
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
12/22/2025 ACPERF, record # 101009

AC Induction Motor Performance Data
Record # 101010
Typical performance - not guaranteed values

Winding: 36WGR900-R016	**Type:** 3646M	**Enclosure:** TEFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	10.81 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			6.8-6.6/3.3//7.6/3.8	**Breakdown Torque**	34.9 LB-FT
R.P.M.			1175//970	**Pull-up Torque**	20.5 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	26.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	24.4 A
Service Factor (S.F.)			1.15	**No-load Current**	2.17 A
NEMA Nom. Eff.	88.5	**Power Factor**	64	**Line-line Res. @ 25ºC**	4.66 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	42°C
S.F. Amps			7.6-7.2/3.6//8.4/4.2	**Temp. Rise @ S.F. Load**	52°C
				Locked-rotor Power Factor	33
				Rotor inertia	0.432 LB-FT2

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	49	61	69	73	75	71
Efficiency	80.9	87.3	88.3	87.9	86.6	84.4	87.1
Speed	994	987	979	970	960	948	964
Line amperes	2.29	2.64	3.15	3.75	4.49	5.37	4.19

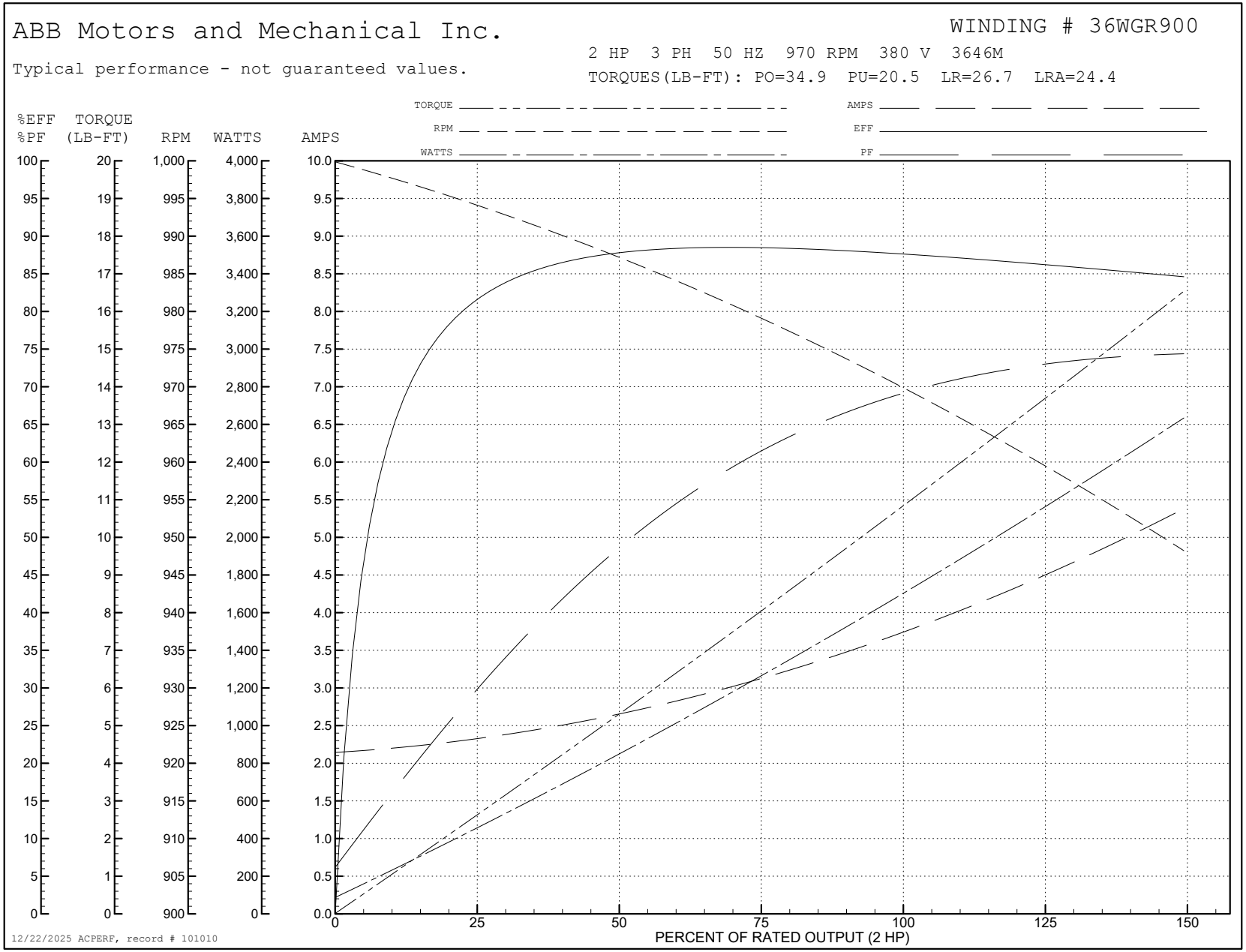
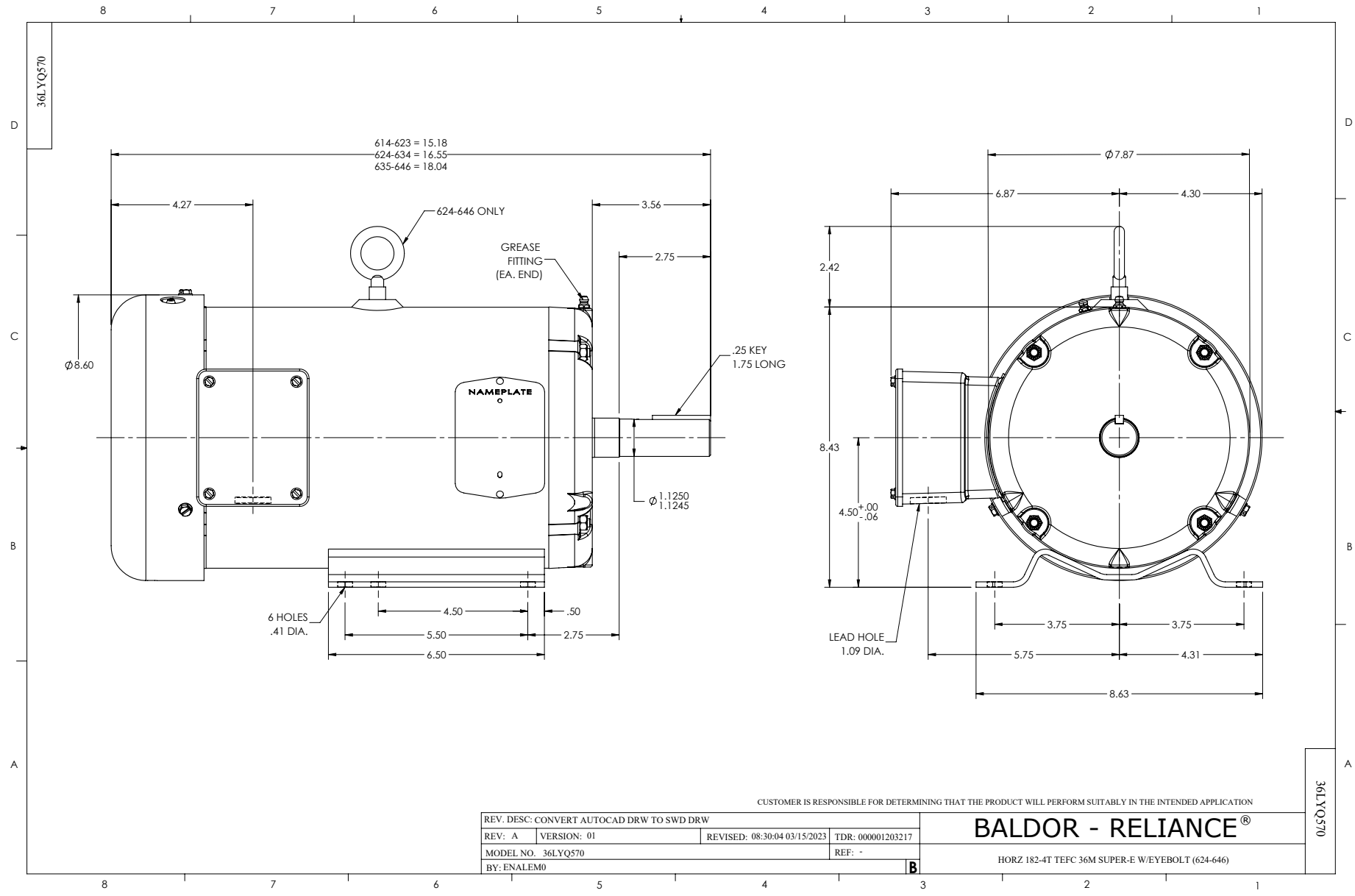
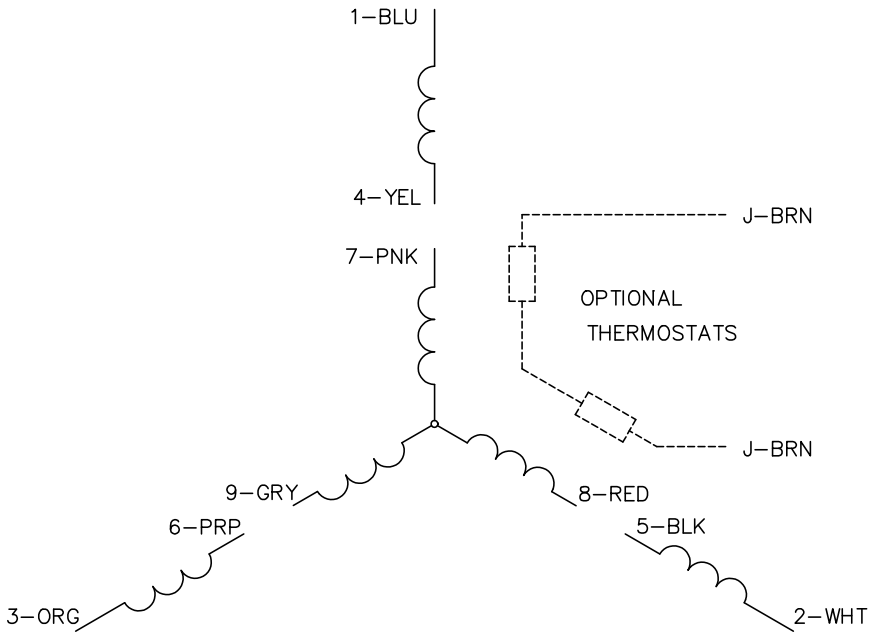
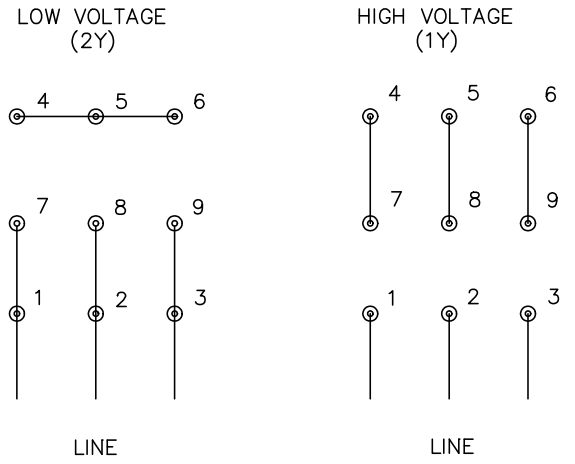


ABB Motors and Mechanical Inc.
WINDING # 36WGR900
Typical performance - not guaranteed values.
2 HP 3 PH 50 HZ 970 RPM 380 V 3646M
TORQUES(LB-FT): PO=34.9 PU=20.5 LR=26.7 LRA=24.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
12/22/2025 ACPERF, record # 101010


36LYQ570
614-623 = 15.18
624-634 = 16.55
635-646 = 18.04
4.27
624-646 ONLY
3.56
GREASE FITTING (EA. END)
2.75
.25 KEY
1.75 LONG
Ø8.60
NAMEPLATE
Ø1.1250
1.1245
6 HOLES
.41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
6.87
4.30
2.42
8.43
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75
5.75
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 08:30:04 03/15/2023
TDR: 000001203217
MODEL NO. 36LYQ570
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4T TEFC 36M SUPER-E W/EYEBOLT (624-646)
36LYQ570

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS