ABB BALDOR RELIANCE

Customer information packet

VEBM3248T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3640M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.600 A @ 460.0 V
	14.000 A @ 208.0 V
	13.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	36E035
Base	
Status	PRD/A
Elec. spec.	36WGS270
Layout	36LYE035
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	10-12-2015

High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.07 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

	NP1259L									
CAT.NO.	VEBM3248T									
SPEC.	36E035S270G2									
HP	5									
VOLTS	230/460									
AMP	13.2/6.6									
RPM	1750									
FRAME	184TC	**HZ**	60				**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F			
NEMA-NOM-EFF	89.5	**PF**	80							
RATING	40C AMB-CONT									
CC	010A									
DE	6206	**ODE**	6205							
ENCL	OPEN	**SN**								
	SFA 15.0/7.5									

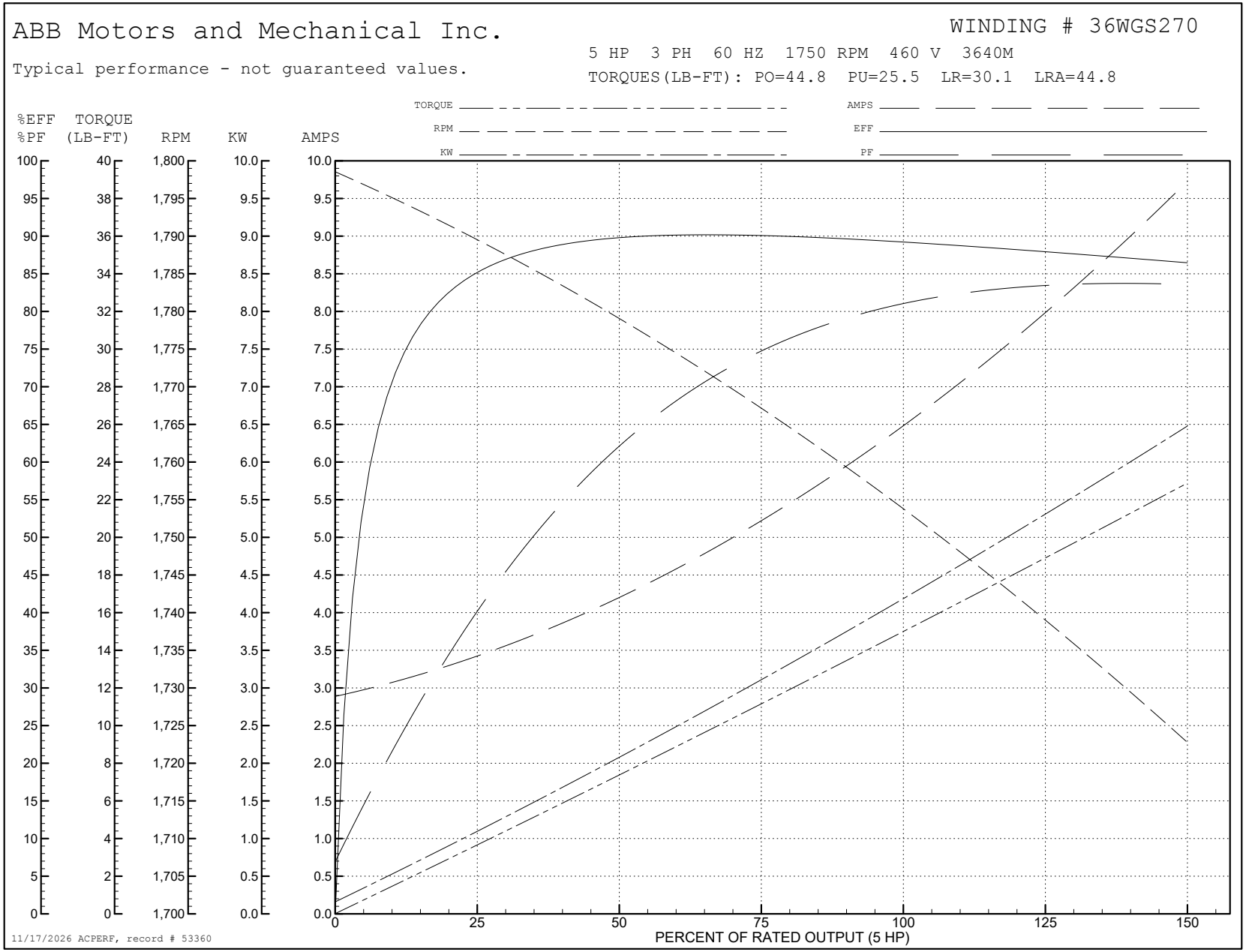
AC Induction Motor Performance Data
Record # 53360
Typical performance - not guaranteed values

Winding: 36WGS270-R004	**Type:** 3640M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15.05 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.2/6.6	**Breakdown Torque**	44.8 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	44.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.97 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	2.632 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	41
				Rotor inertia	0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	83	84	82
Efficiency	85.4	89.7	90.2	89.5	88.2	86.4	88.7
Speed	1789.2	1778.5	1766.9	1753.8	1739.5	1722.1	1745
Line amperes	3.33	4.14	5.26	6.59	8.05	9.68	7.47


ABB Motors and Mechanical Inc.
WINDING # 36WGS270
5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=44.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/17/2026 ACPERF, record # 53360

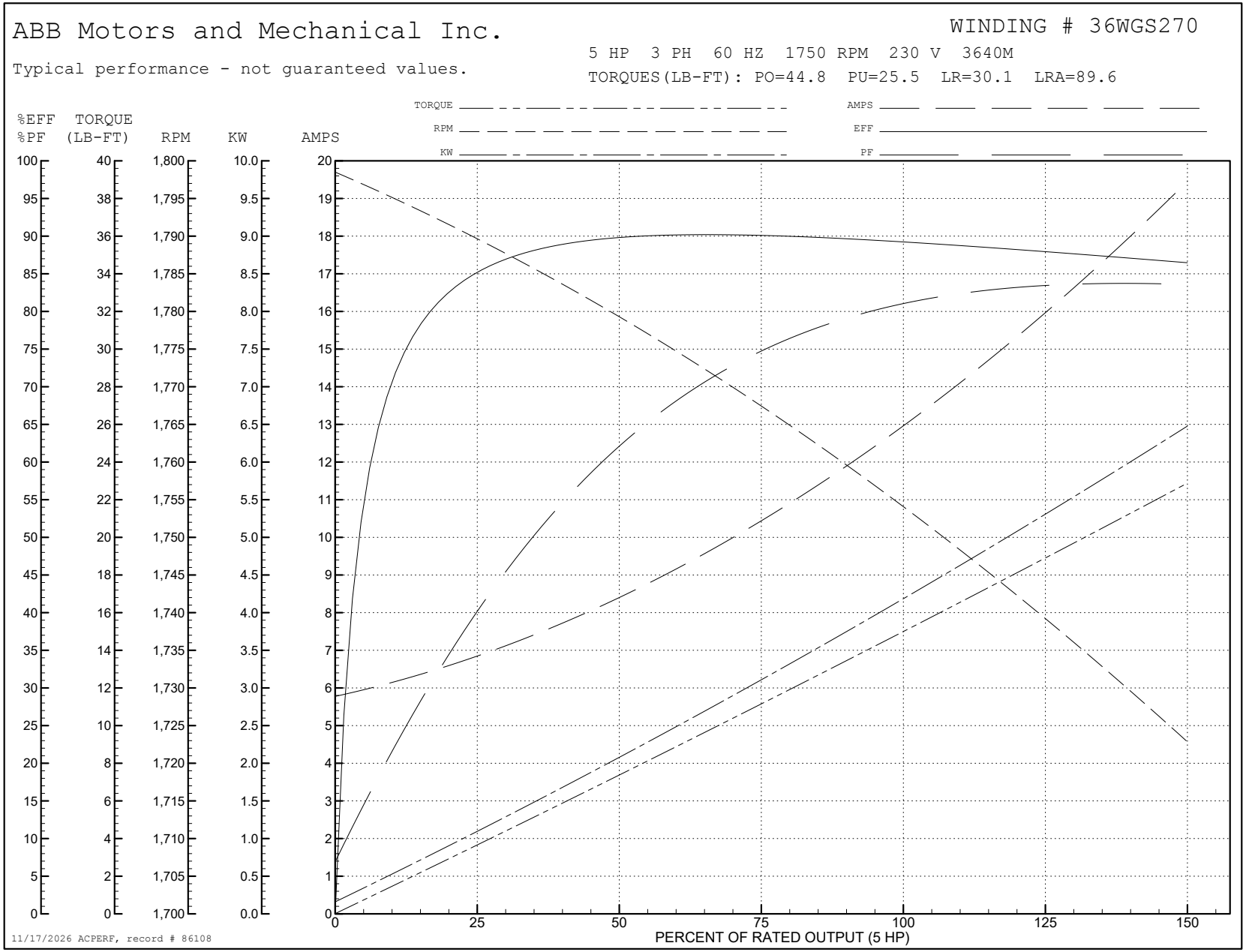
AC Induction Motor Performance Data
Record # 86108
Typical performance - not guaranteed values

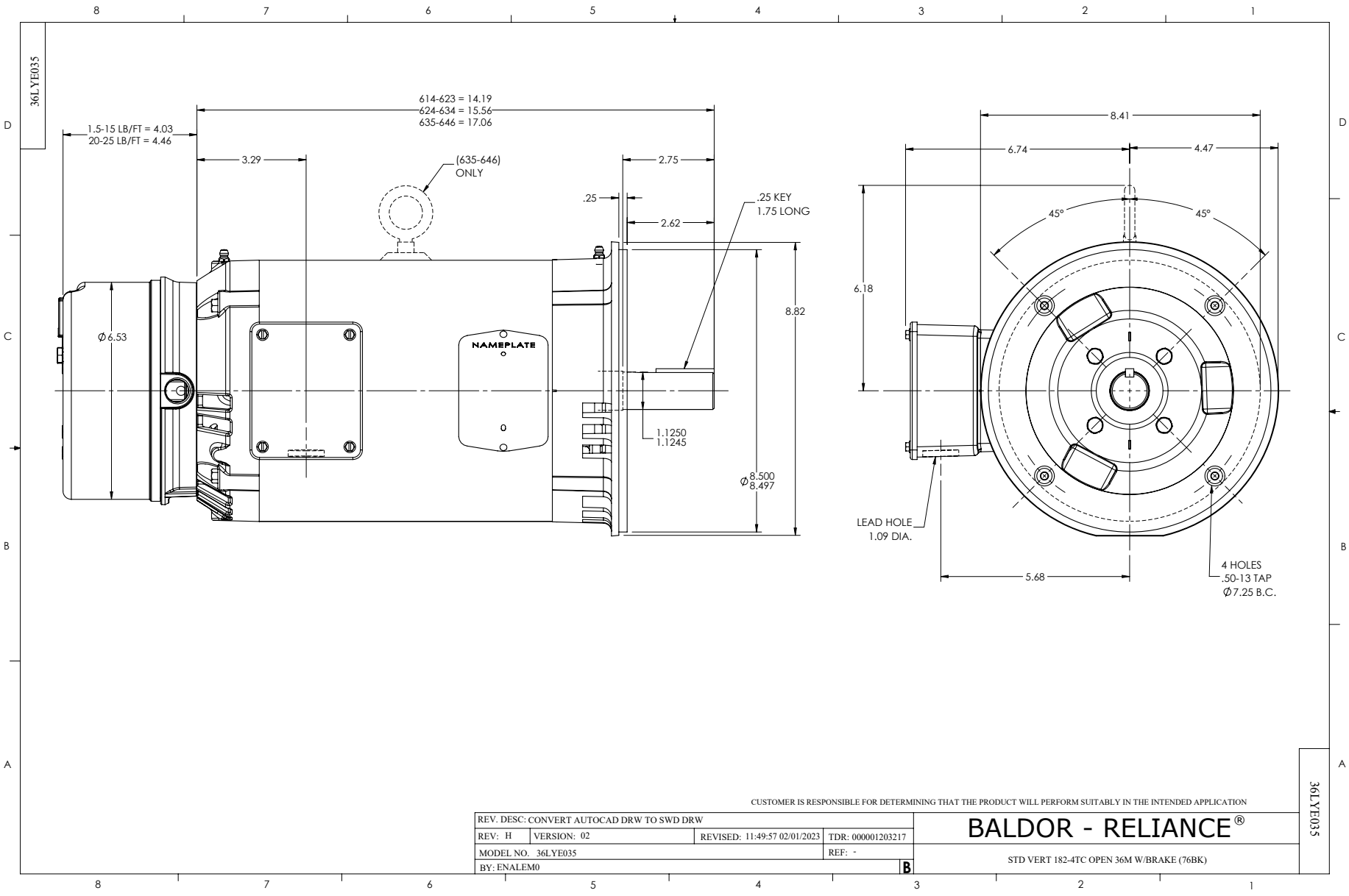
Winding: 36WGS270-R004	**Type:** 3640M	**Enclosure:** OPSB

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15.05 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.2/6.6	**Breakdown Torque**	44.8 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	89.6 A
Service Factor (S.F.)			1.15	**No-load Current**	5.94 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	0.656 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	40.8
				Rotor inertia	0.372 lb-ft²

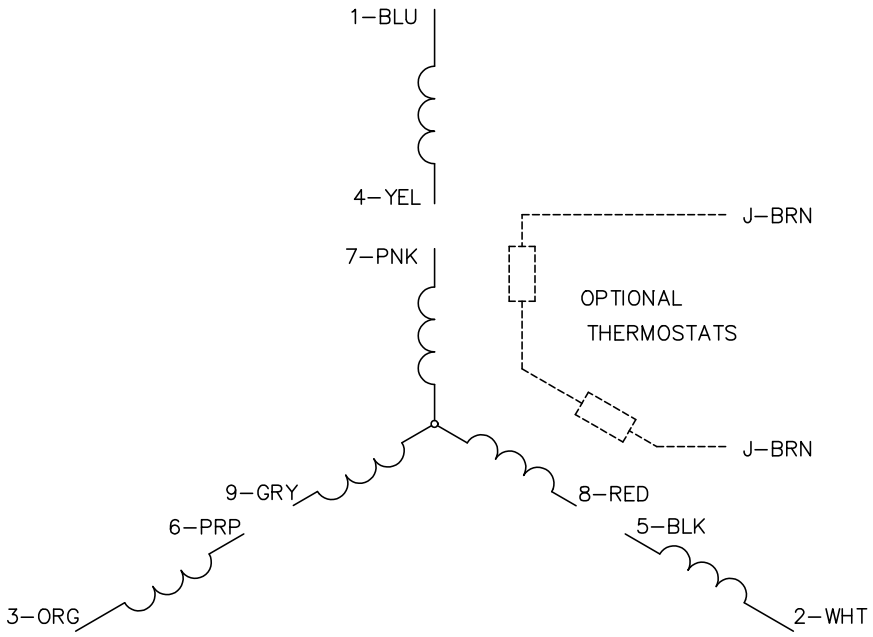
Load Characteristics 230 V, 60 Hz, 5 HP

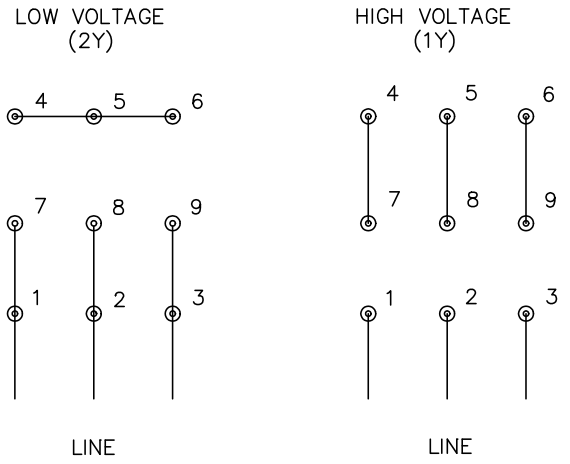
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	83	84	82
Efficiency	84.3	89.2	89.7	89.6	88.2	86.2	88.8
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	6.66	8.28	10.52	13.18	16.1	19.36	14.9


ABB Motors and Mechanical Inc.
WINDING # 36WGS270
5 HP 3 PH 60 HZ 1750 RPM 230 V 3640M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=89.6
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/17/2026 ACPERF, record # 86108


36LYE035
614-623 = 14.19
624-634 = 15.56
635-646 = 17.06
1.5-15 LB/FT = 4.03
20-25 LB/FT = 4.46
3.29
(635-646)
ONLY
2.75
.25
2.62
.25 KEY
1.75 LONG
8.82
Ø6.53
NAMEPLATE
1.1250
1.1245
Ø8.500
8.497
8.41
6.74
4.47
45°
45°
6.18
LEAD HOLE
1.09 DIA.
5.68
4 HOLES
.50-13 TAP
Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: H
VERSION: 02
REVISED: 11:49:57 02/01/2023
TDR: 000001203217
MODEL NO. 36LYE035
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 182-4TC OPEN 36M W/BRAKE (76BK)
36LYE035

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