ABB BALDOR RELIANCE

Customer information packet

M3616T

7.5HP, 3450RPM, 3PH, 60HZ, 184T, 3640M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184T
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	17.400 A @ 230.0 V
	18.500 A @ 208.0 V
	8.700 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Q
Type	AC
Mech. spec.	36A001
Base	
Status	NLA/A
Elec. spec.	36WGX875
Layout	36LYA001
Eff. date	05-06-2009
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	8.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	2
Overall Length	18.04 IN
Power Factor	93
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	3450 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

NP1256L											
CAT.NO.	M3616T										
SPEC.	36A001X875H1										
HP	7.5										
VOLTS	208-230/460										
AMP	18.5-17.4/8.7										
RPM	3450										
FRAME	184T	**HZ**	60			**PH**	3				
SER.F.	1.15	**CODE**	M	**DES**	A	**CLASS**	F				
NEMA-NOM-EFF	88.5	**PF**	93								
RATING	40C AMB-CONT										
CC	010A										
DE	6206	**ODE**	6205								
ENCL	TEFC	**SN**									

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

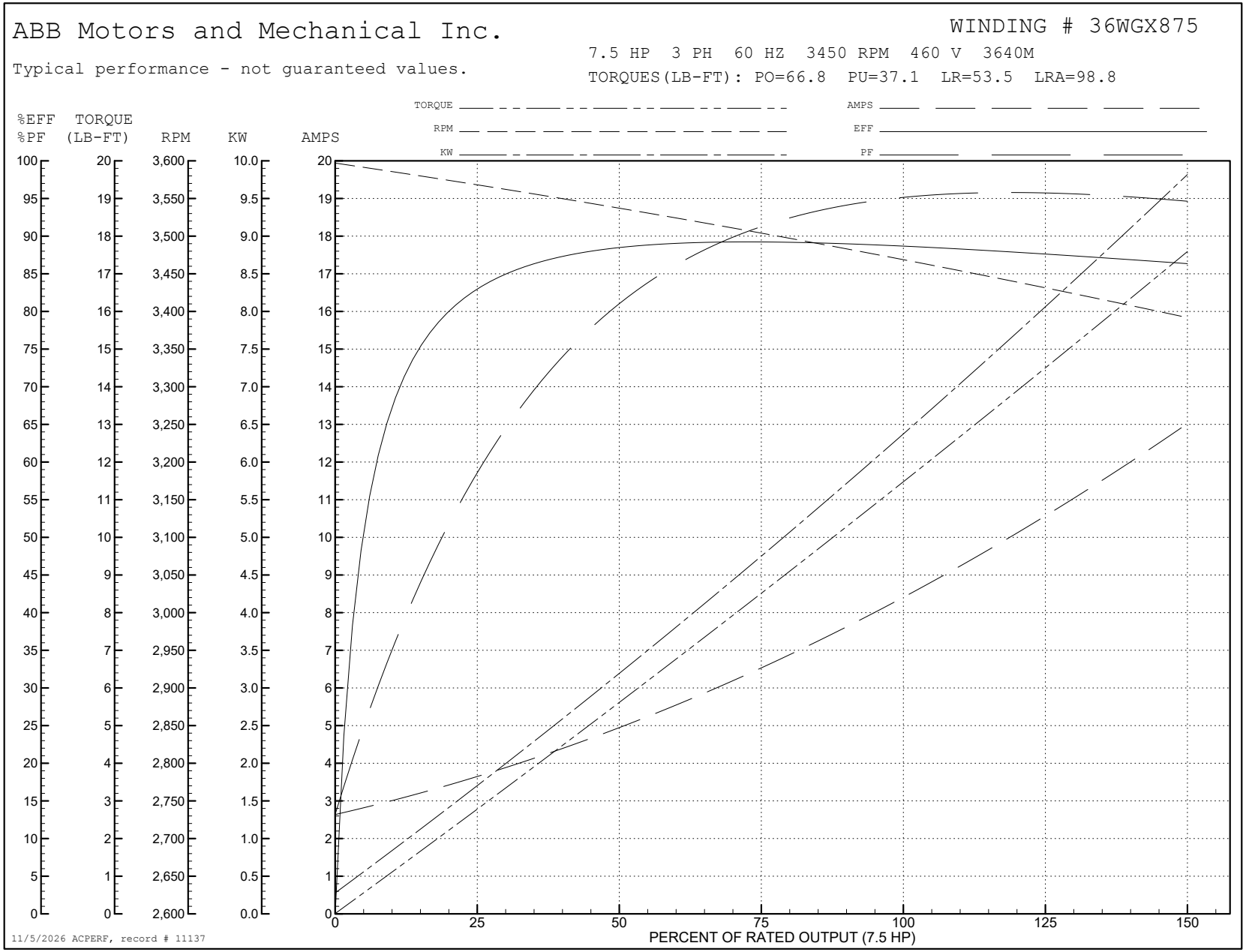
AC Induction Motor Performance Data
Record # 11137
Typical performance - not guaranteed values

Winding: 36WGX875-R001	**Type:** 3640M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.5 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			18.5-17.4/8.7	**Breakdown Torque**	66.8 LB-FT
R.P.M.			3450	**Pull-up Torque**	37.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.5 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	98.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.78 A
NEMA Nom. Eff.	88.5	**Power Factor**	93	**Line-line Res. @ 25ºC**	1.45 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps				**Temp. Rise @ S.F. Load**	91°C
				Locked-rotor Power Factor	48
				Rotor inertia	0.178 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	83	91	94	95	96	95
Efficiency	83.3	88.4	89.3	88.7	87.6	86.1	88
Speed	3564	3535	3506	3468	3432	3391	3446
Line amperes	3.51	4.89	6.61	8.52	10.7	12.9	9.83


ABB Motors and Mechanical Inc.
WINDING # 36WGX875
7.5 HP 3 PH 60 HZ 3450 RPM 460 V 3640M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=66.8 PU=37.1 LR=53.5 LRA=98.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/5/2026 ACPERF, record # 11137

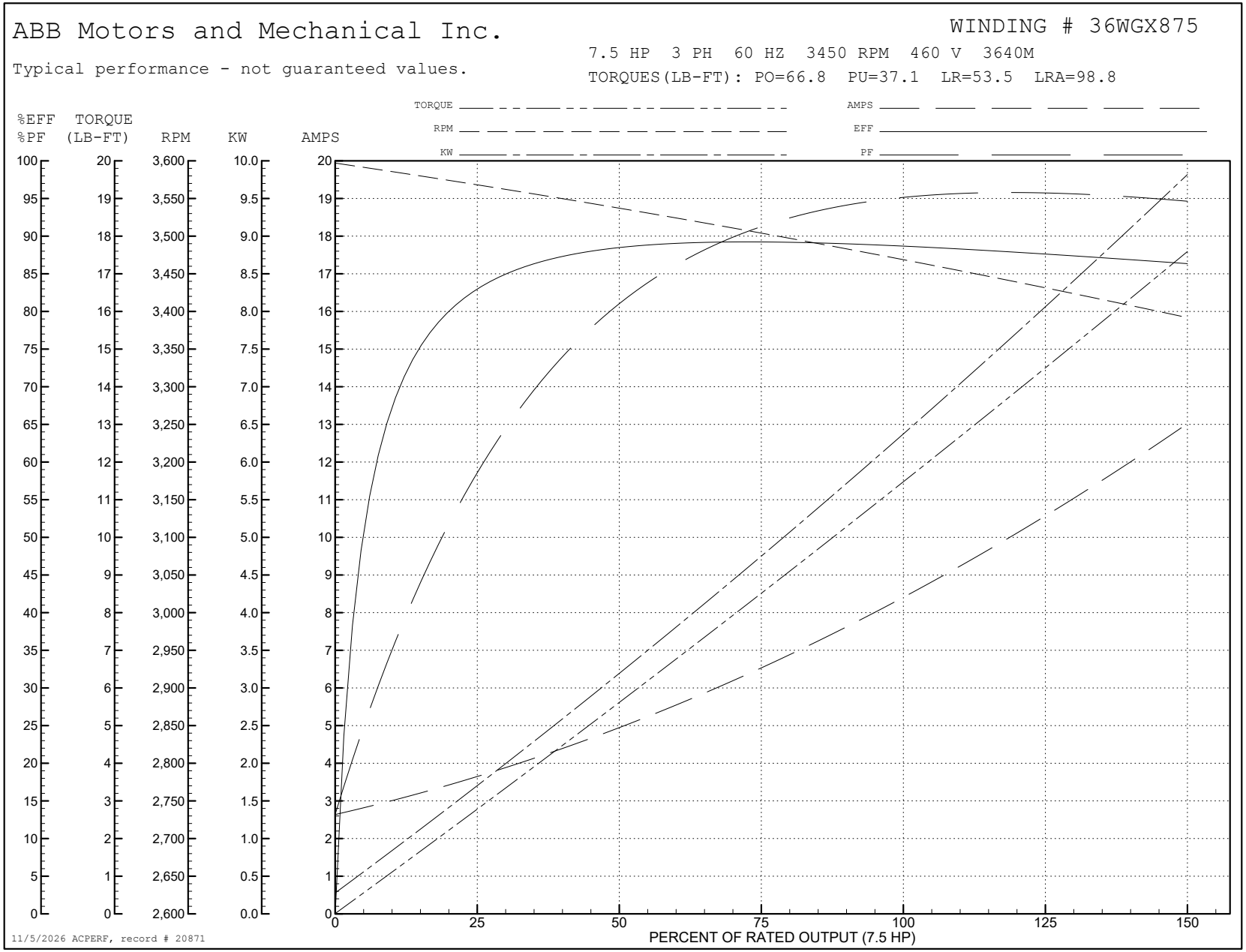
AC Induction Motor Performance Data
Record # 20871
Typical performance - not guaranteed values

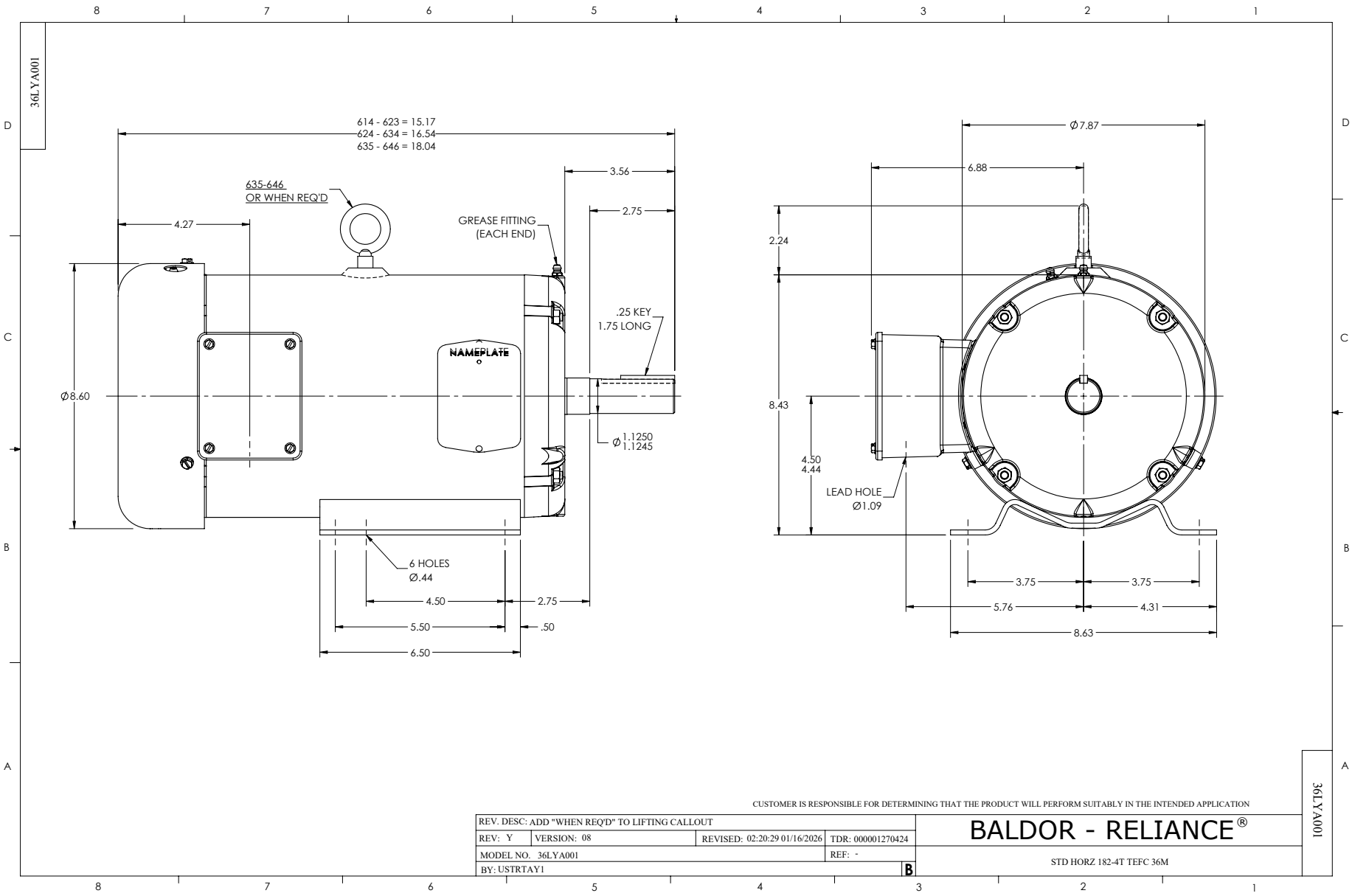
Winding: 36WGX875-R004	**Type:** 3640M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.5 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			18.5-17.4/8.7	**Breakdown Torque**	66.8 LB-FT
R.P.M.			3450	**Pull-up Torque**	37.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.5 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	98.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.78 A
NEMA Nom. Eff.	88.5	**Power Factor**	93	**Line-line Res. @ 25ºC**	1.45 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps				**Temp. Rise @ S.F. Load**	91°C
				Locked-rotor Power Factor	48
				Rotor inertia	0.178 LB-FT2

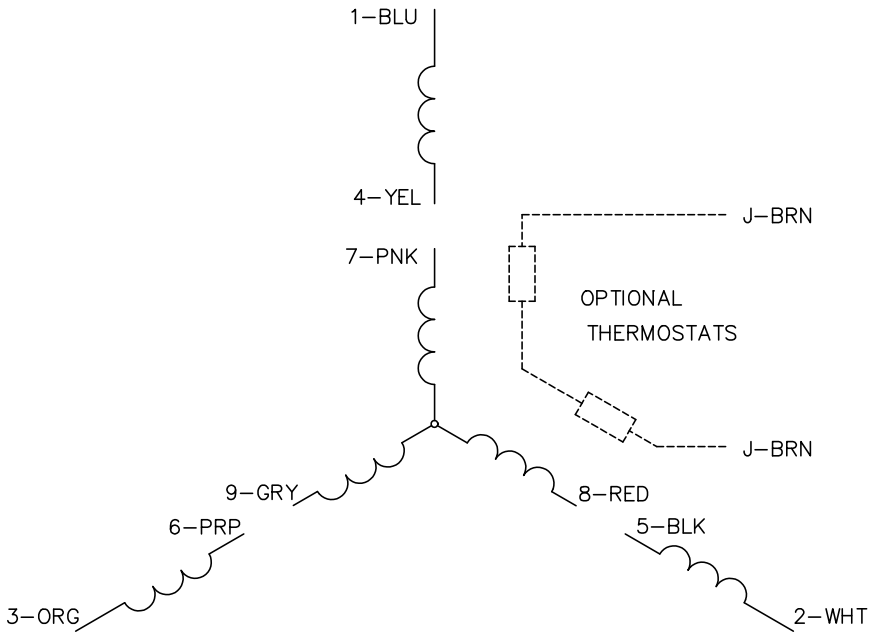
Load Characteristics 460 V, 60 Hz, 7.5 HP

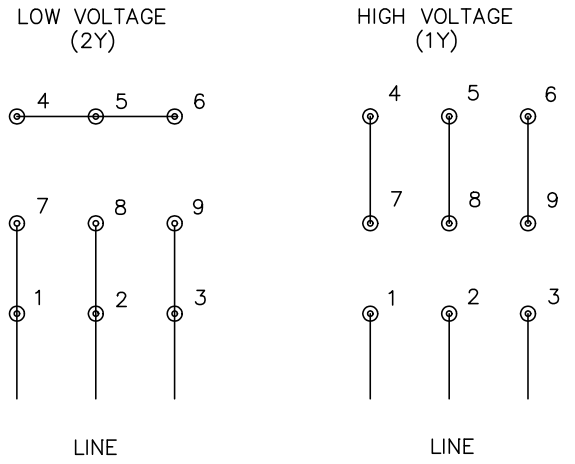
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	83	91	94	95	96	95
Efficiency	83.3	88.4	89.3	88.7	87.6	86.1	88
Speed	3564	3535	3506	3468	3432	3391	3446
Line amperes	3.51	4.89	6.61	8.52	10.7	12.9	9.83


ABB Motors and Mechanical Inc.
WINDING # 36WGX875
7.5 HP 3 PH 60 HZ 3450 RPM 460 V 3640M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=66.8 PU=37.1 LR=53.5 LRA=98.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/5/2026 ACPERF, record # 20871


36LYA001
614 - 623 = 15.17
624 - 634 = 16.54
635 - 646 = 18.04
635-646
OR WHEN REQ'D
GREASE FITTING
(EACH END)
3.56
2.75
4.27
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.60
Ø 1.1250
1.1245
6 HOLES
Ø.44
4.50
2.75
5.50
.50
6.50
Ø7.87
6.88
2.24
8.43
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD "WHEN REQ'D" TO LIFTING CALLOUT
REV: Y
VERSION: 08
REVISED: 02:20:29 01/16/2026
TDR: 000001270424
MODEL NO. 36LYA001
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M
36LYA001

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