ABB BALDOR RELIANCE

Customer information packet

M1707T

3/1.5HP, 1725/850RPM, 3PH, 60HZ, 184T, 3640M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184T
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	3.000 HP @ 60 HZ
	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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	4.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AC
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGW675
Layout	36LYA001
Eff. date	05-20-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#16
Proprietary	False
Created date	01-01-0001

KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	18.04 IN
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	1725 rpm
	850 rpm
Speed Code	2S-1W-CT
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.	M1707T								
SPEC.	36A01W675								
HP	3/1.5								
VOLTS	460								
AMP	4.2/4.4								
RPM	1725/850								
FRAME	184T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	-	**CLASS**	F		
NEMA-NOM-EFF		**PF**							
RATING	40C AMB-CONT								
CC									
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 # 10816
Typical performance - not guaranteed values

Winding: 36WGW675-R001	**Type:** 3640M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			3/1.5	**Full Load Torque**	9.1 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			4.2/4.4	**Breakdown Torque**	32 LB-FT
R.P.M.			1725/850	**Pull-up Torque**	20 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31.5 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.7 A
Service Factor (S.F.)			1.15	**No-load Current**	1.8 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	6.13 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	83°C

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	68	78	84	87	89	86
Efficiency	74.1	81.5	82.9	82.3	80.9	78.5	81.5
Speed	1787	1772	1759	1742	1725	1702	1732
Line amperes	2.1	2.7	3.3	4.2	5	6	4.68

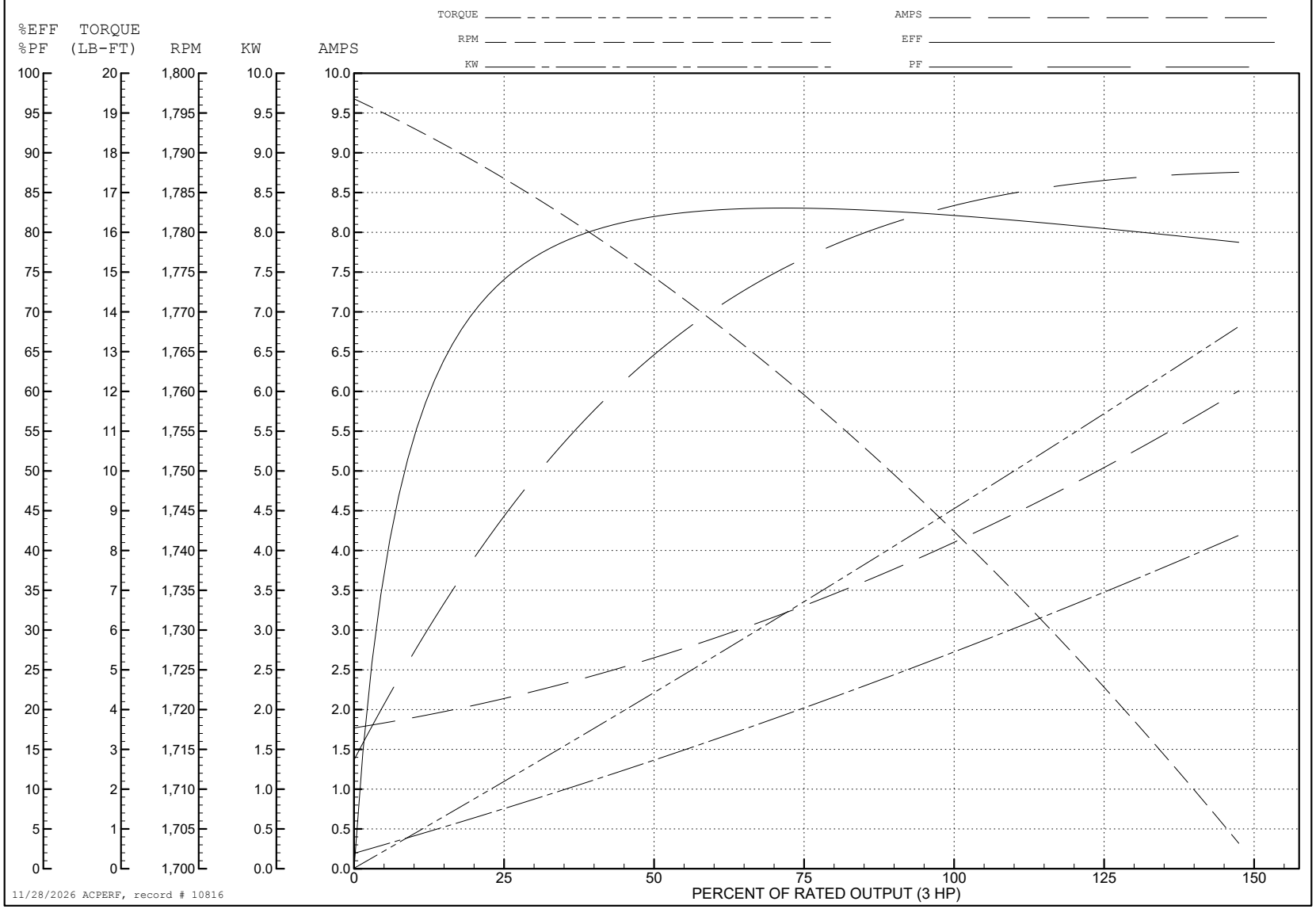
ABB Motors and Mechanical Inc.

WINDING # 36WGW675

3 HP 3 PH 60 HZ 1742 RPM 460 V 3640M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=32 PU=20 LR=31.5 LRA=32.7



11/28/2026 ACPERF, record # 10816

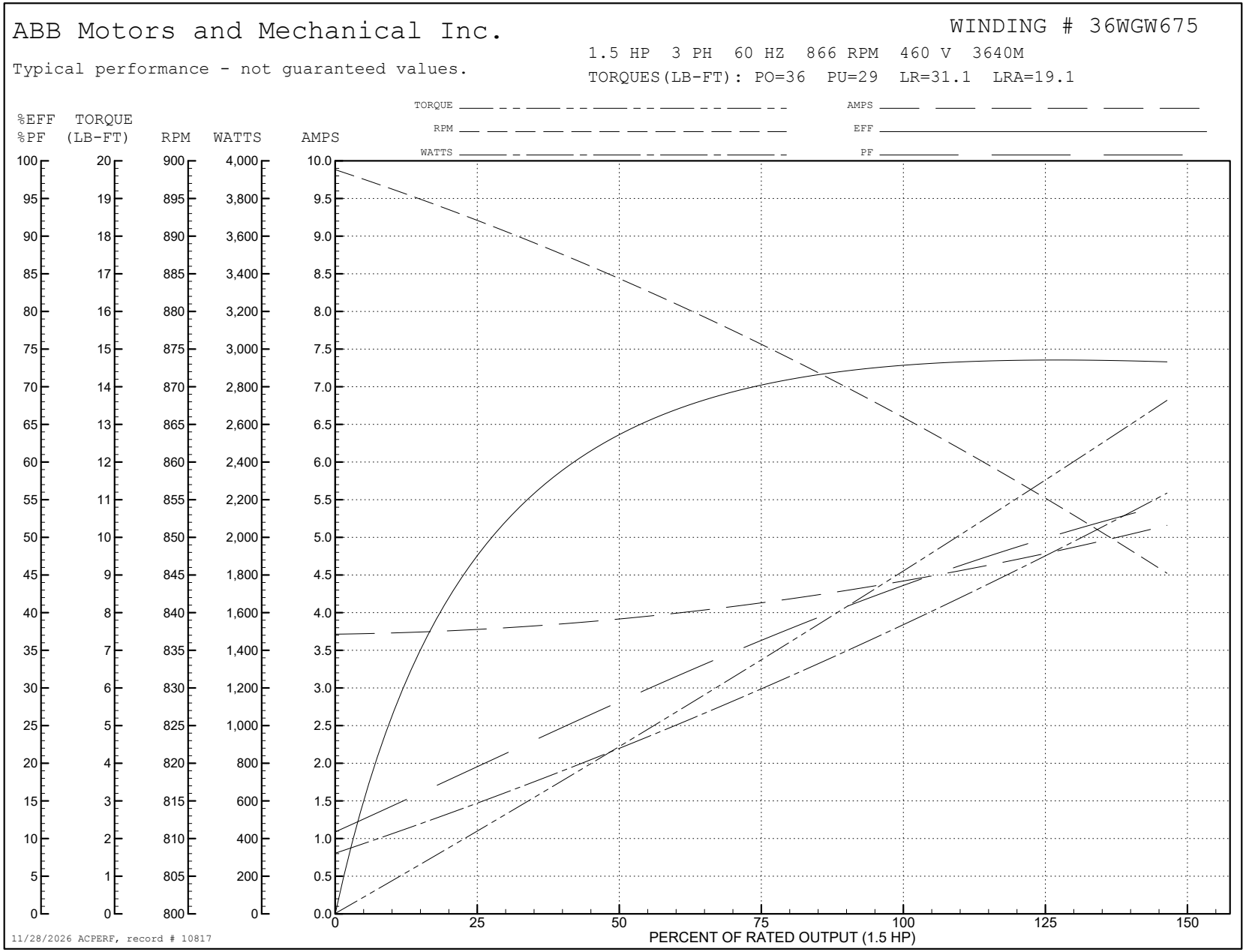
AC Induction Motor Performance Data
Record # 10817
Typical performance - not guaranteed values

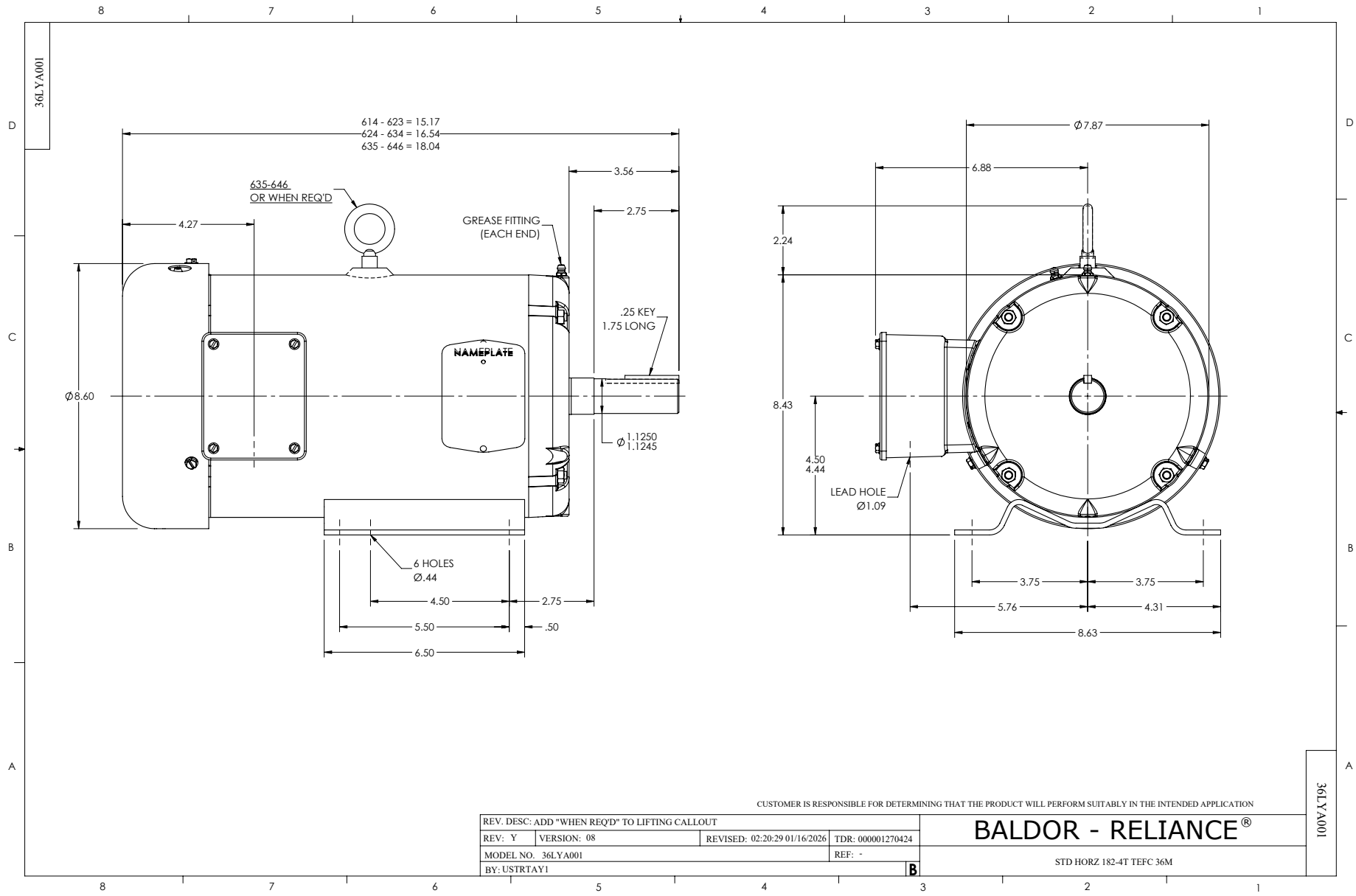
Winding: 36WGW675-R001	**Type:** 3640M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			3/1.5	**Full Load Torque**	9.1 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			4.2/4.4	**Breakdown Torque**	36 LB-FT
R.P.M.			1725/850	**Pull-up Torque**	29 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	19.1 A
Service Factor (S.F.)			1.15	**No-load Current**	3.7 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	8.34 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	89°C
S.F. Amps				**Temp. Rise @ S.F. Load**	98°C

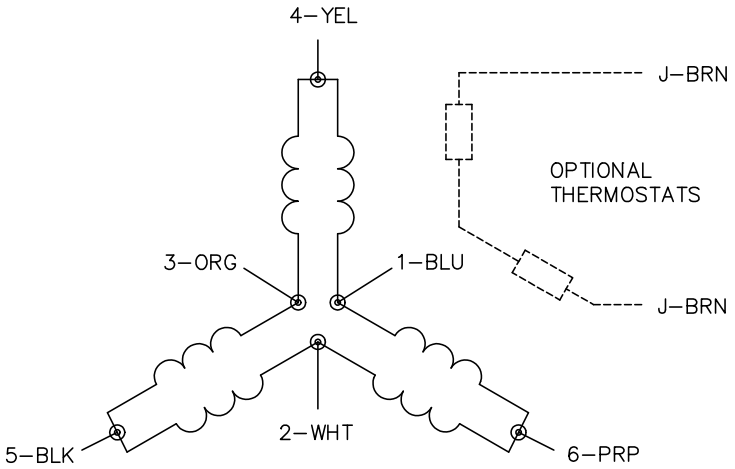
Load Characteristics 460 V, 60 Hz, 1.5 HP

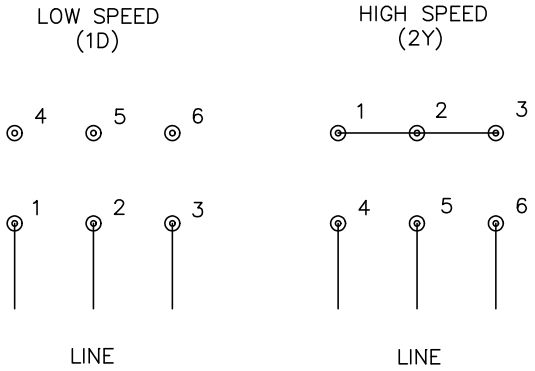
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	22	33	42	51	57	63	55
Efficiency	48.5	64.2	70.2	72.8	73.6	73.3	73.3
Speed	892	883	876	866	856	845	860
Line amperes	3.8	3.9	4.2	4.4	4.7	5.2	4.6


ABB Motors and Mechanical Inc.
WINDING # 36WGW675
1.5 HP 3 PH 60 HZ 866 RPM 460 V 3640M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=36 PU=29 LR=31.1 LRA=19.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/28/2026 ACPERF, record # 10817


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

CD0011





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.

CD0011

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
CD0011		FILE: DWG\142.wg	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING CONSTANT TORQUE