ABB BALDOR RELIANCE

Customer information packet

M3546T

1HP, 1750RPM, 3PH, 60HZ, 143T, 3516M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	143T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	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	3.380 A @ 208.0 V
	3.120 A @ 230.0 V
	1.560 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	F
Type	AC
Mech. spec.	35A001
Base	
Status	NLA/A
Elec. spec.	35WGP674
Layout	35LYA001
Eff. date	06-24-2009
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-02-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 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 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.31 IN
Power Factor	73
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	0.875 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

NP1256L									
CAT.NO.	M3546T								
SPEC.	35A001P674H1								
HP	1								
VOLTS	208-230/460								
AMP	3.38-3.12/1.56								
RPM	1750								
FRAME	143T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	82.5	**PF**	73						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 25215
Typical performance - not guaranteed values

Winding: 35WGP674-R001	**Type:** 3516M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	2.99 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			3.38-3.12/1.56	**Breakdown Torque**	17.8 LB-FT
R.P.M.			1750	**Pull-up Torque**	8.32 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	10.4 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	13.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.04 A
NEMA Nom. Eff.	82.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	16.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	63
				Rotor inertia	0.0946 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	50	63	73	79	83	77
Efficiency	66.7	77.9	81.3	82.6	82.6	81.6	82.6
Speed	1788	1776	1764	1750	1735	1719	1741
Line amperes	1.11	1.2	1.36	1.56	1.77	2.06	1.69

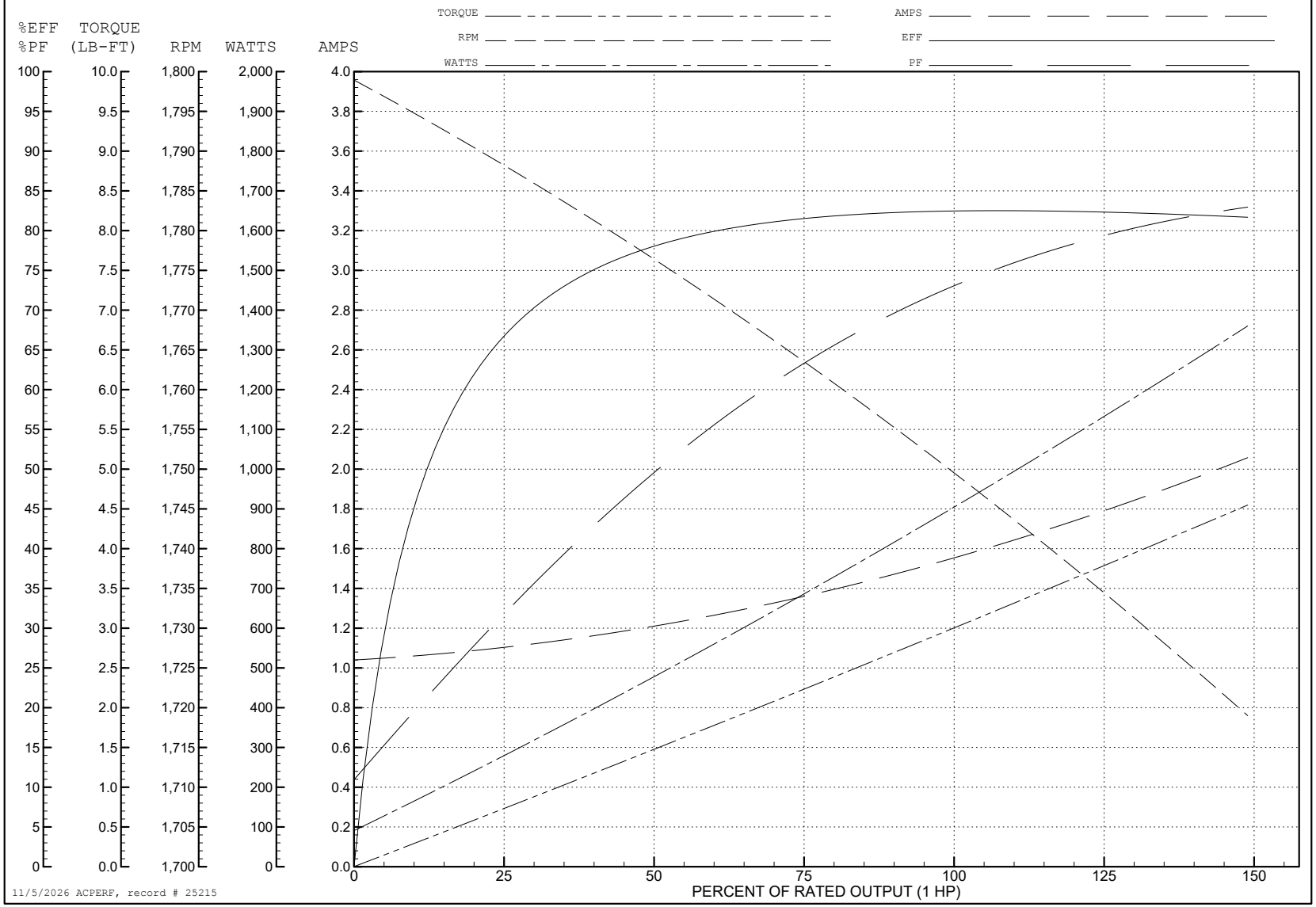
ABB Motors and Mechanical Inc.

WINDING # 35WGP674

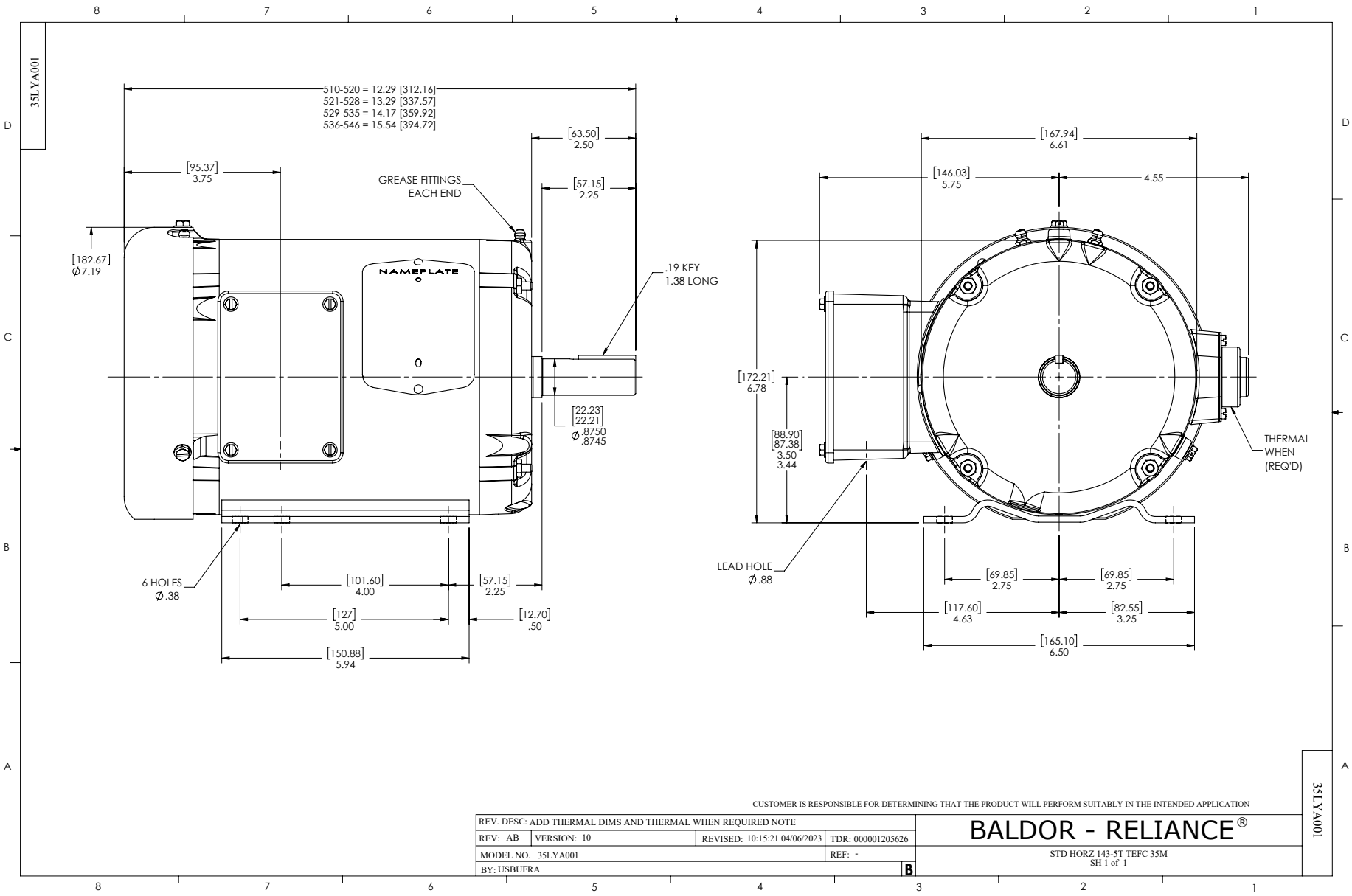
1 HP 3 PH 60 HZ 1750 RPM 460 V 3516M

Typical performance - not guaranteed values.

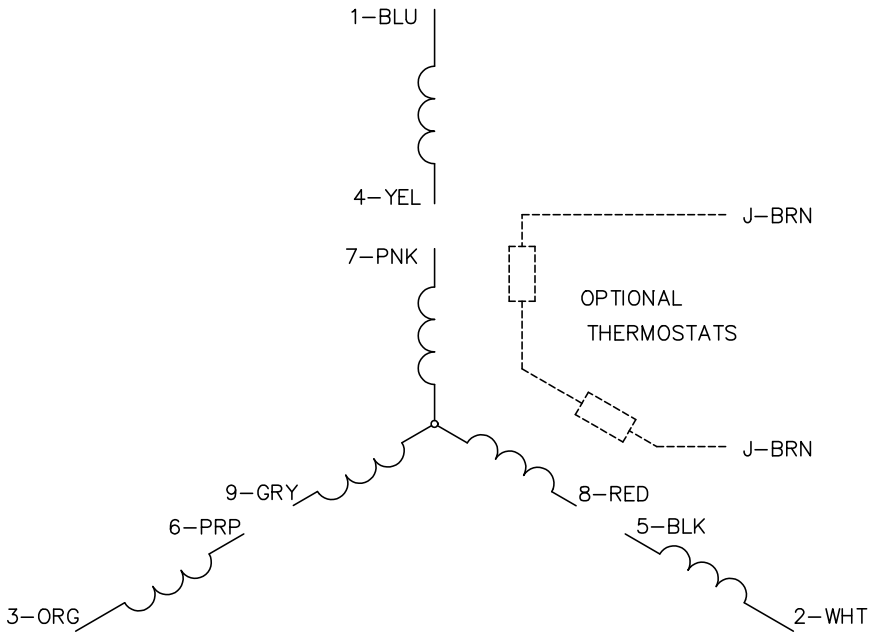
TORQUES(LB-FT): PO=17.8 PU=8.32 LR=10.4 LRA=13.2

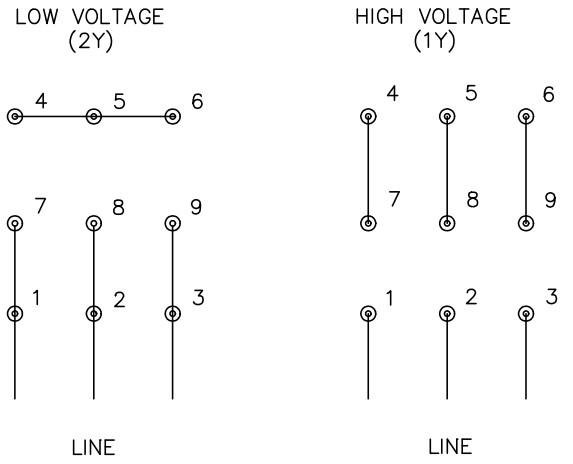


11/5/2026 ACPERF, record # 25215


35LYA001
510-520 = 12.29 [312.16]
521-528 = 13.29 [337.57]
529-535 = 14.17 [359.92]
536-546 = 15.54 [394.72]
[63.50] 2.50
[95.37] 3.75
GREASE FITTINGS EACH END
[57.15] 2.25
[182.67] Ø7.19
NAMEPLATE
.19 KEY 1.38 LONG
[22.23] [22.21] Ø.8750 Ø.8745
6 HOLES Ø.38
[101.60] 4.00
[57.15] 2.25
[127] 5.00
[12.70] .50
[150.88] 5.94
[167.94] 6.61
[146.03] 5.75
4.55
[172.21] 6.78
[88.90] [87.38] 3.50 3.44
THERMAL WHEN (REQ'D)
LEAD HOLE Ø.88
[69.85] 2.75
[69.85] 2.75
[117.60] 4.63
[82.55] 3.25
[165.10] 6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: AB
VERSION: 10
REVISED: 10:15:21 04/06/2023
TDR: 000001205626
MODEL NO. 35LYA001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5T TEFC 35M
SH 1 of 1
35LYA001

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