ABB BALDOR RELIANCE

Customer information packet

M1705T

1.5/.75HP, 1745/870RPM, 3PH, 60HZ, 145T, 3534
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145T
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	1.500 HP @ 60 HZ
	.750 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	2.100 A @ 460.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	F
Type	AC
Mech. spec.	35AA001
Base	
Status	PRD/A
Elec. spec.	35WGG367
Layout	35LYAA001
Eff. date	10-28-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#18 Y
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	14.19 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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1745 rpm
	870 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.	M1705T								
SPEC.	35AA001G367G1								
HP	1.5/.75								
VOLTS	460								
AMP	2.1/2.2								
RPM	1725/865								
FRAME	145T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	-	**CLASS**	H		
NEMA-NOM-EFF		**PF**							
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	SFA 2.36								

Accessories

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

AC Induction Motor Performance Data
Record # 87902
Typical performance - not guaranteed values

Winding: 35WGG367-R001	**Type:** 3534M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)		1.5/.75	**Full Load Torque**	4.55 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		2.1/2.2	**Breakdown Torque**	11.9 LB-FT
R.P.M.		1725/865	**Pull-up Torque**	7.7 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	8.5 LB-FT
NEMA Design Code	- **KVA Code**	H	**Starting Current**	12 A
Service Factor (S.F.)		1.15	**No-load Current**	0.85 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	20.3 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps			**Temp. Rise @ S.F. Load**	72°C
			Locked-rotor Power Factor	75.4
			Rotor inertia	0.246 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	70	82	85	88	90	85
Efficiency	77.9	82.8	81.8	79	75.3	71.7	79
Speed	1782	1763	1740	1716	1686	1654	1735
Line amperes	0.95	1.24	1.59	2.08	2.56	3.08	2.36

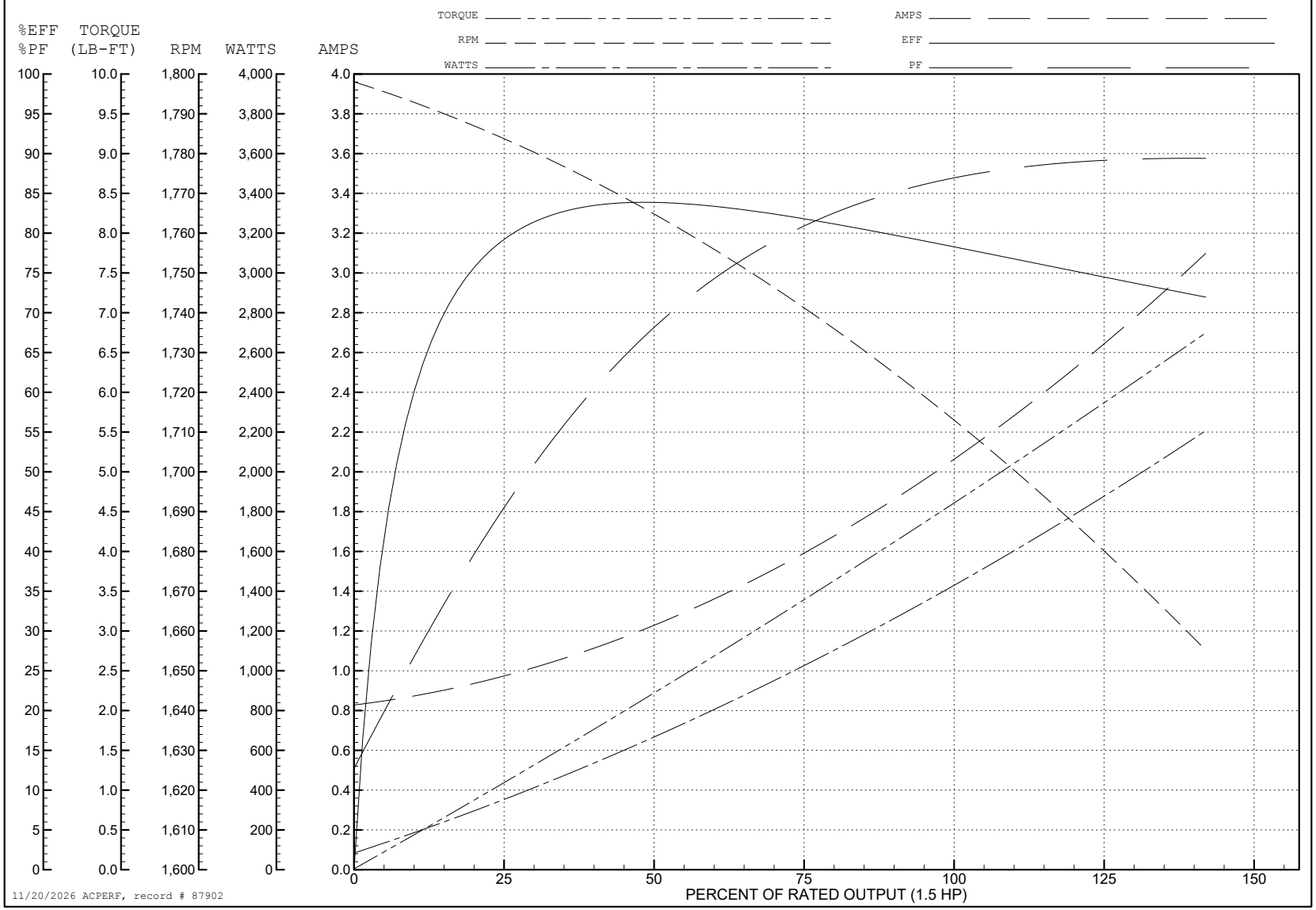
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WINDING # 35WGG367

1.5 HP 3 PH 60 HZ 1716 RPM 460 V 3534M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=11.9 PU=7.7 LR=8.5 LRA=12



AC Induction Motor Performance Data
Record # 87903
Typical performance - not guaranteed values

Winding: 35WGG367-R001	**Type:** 3534M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)		1.5/.75	**Full Load Torque**	4.47 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		2.1/2.2	**Breakdown Torque**	15.2 LB-FT
R.P.M.		1725/865	**Pull-up Torque**	10.4 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	10.6 LB-FT
NEMA Design Code	- **KVA Code**	H	**Starting Current**	8.3 A
Service Factor (S.F.)		1.15	**No-load Current**	2.06 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	27.8 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	94°C
S.F. Amps			**Temp. Rise @ S.F. Load**	104°C
			Locked-rotor Power Factor	70.1
			Rotor inertia	0.246 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	33	42	50	57	63	54
Efficiency	36.3	52.8	59.3	62.5	63.5	63.6	63.1
Speed	892	885	877	867	858	847	862
Line amperes	2.06	2.06	2.11	2.21	2.35	2.5	2.29

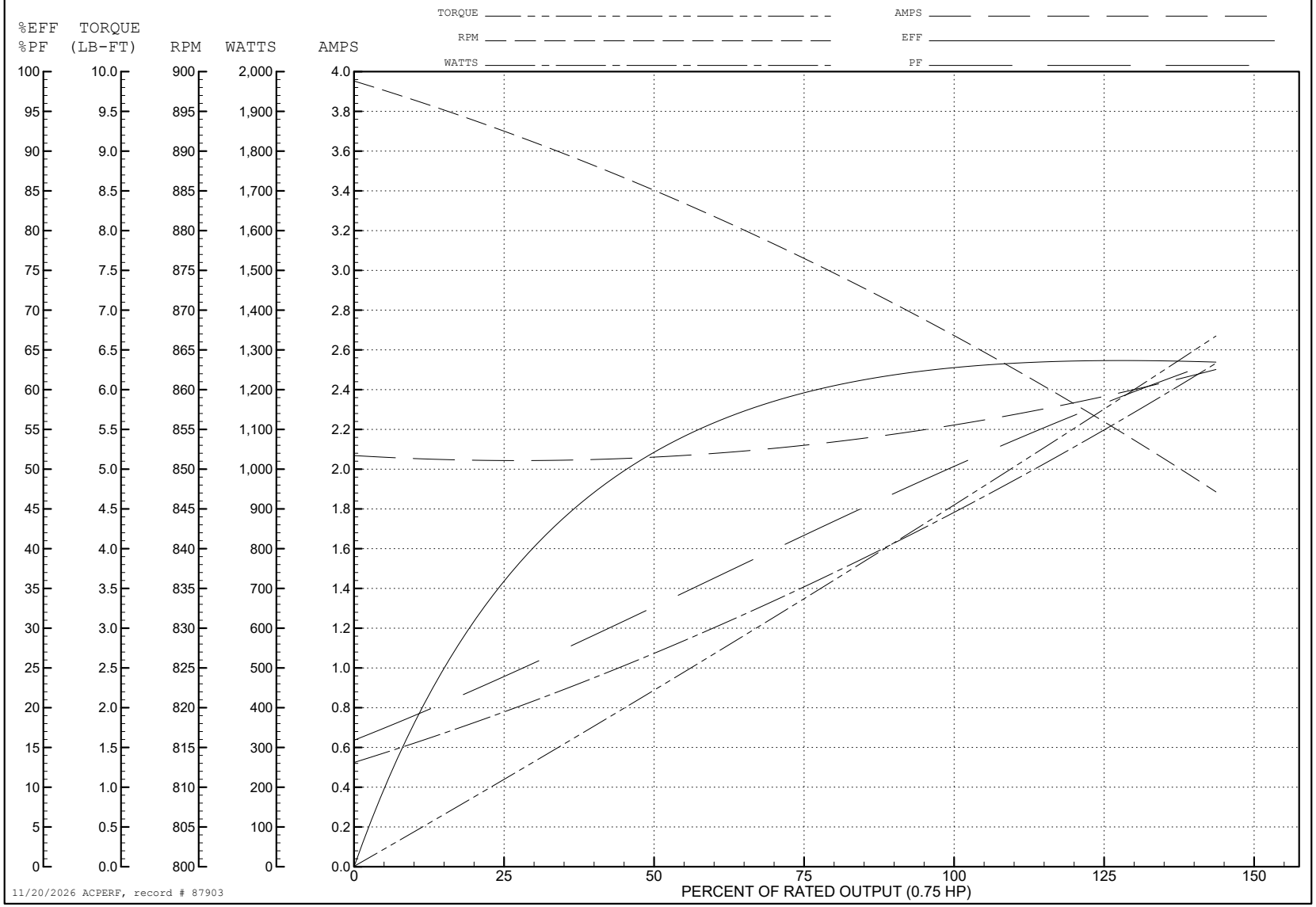
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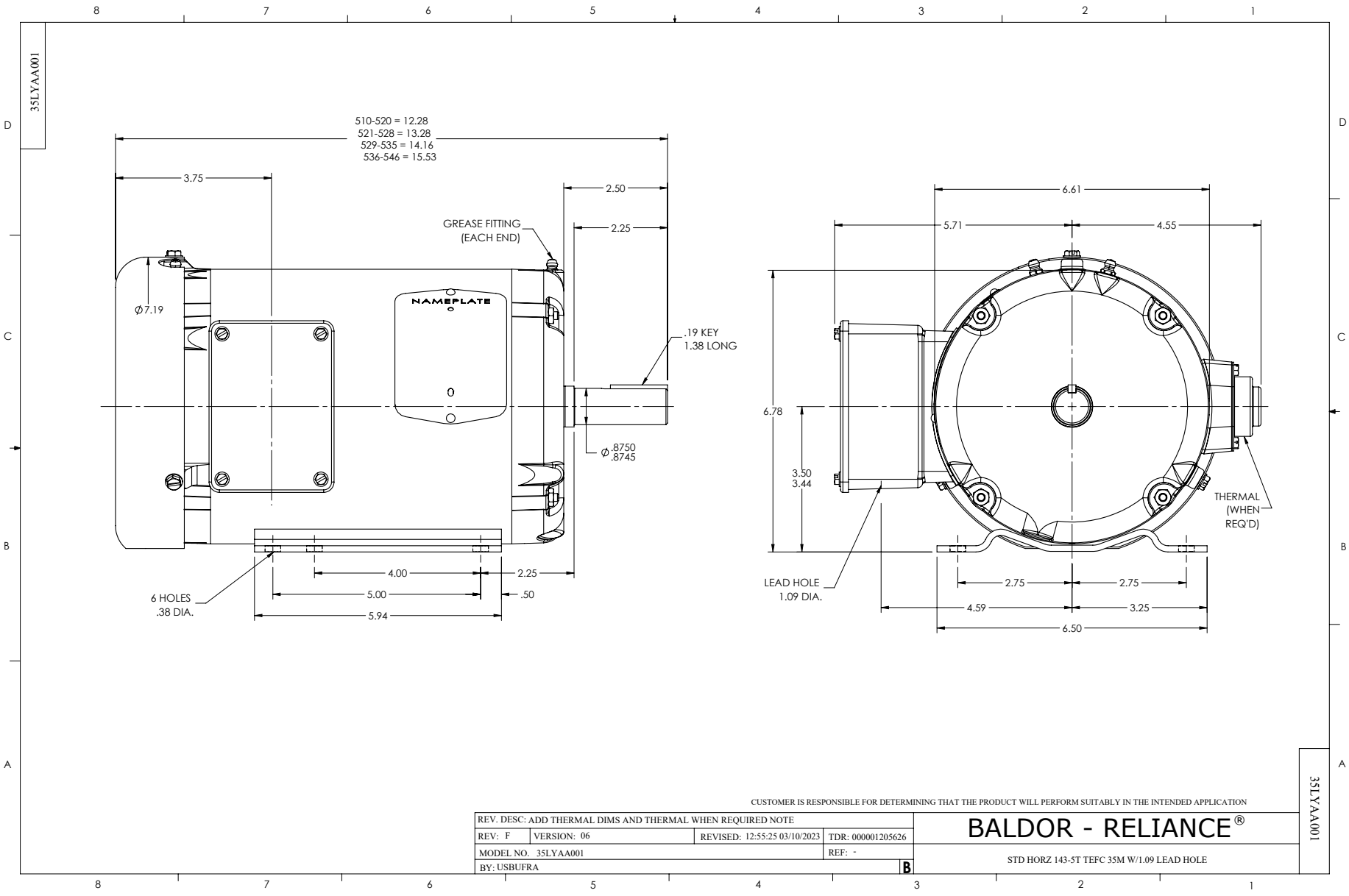
WINDING # 35WGG367

0.75 HP 3 PH 60 HZ 867 RPM 460 V 3534M

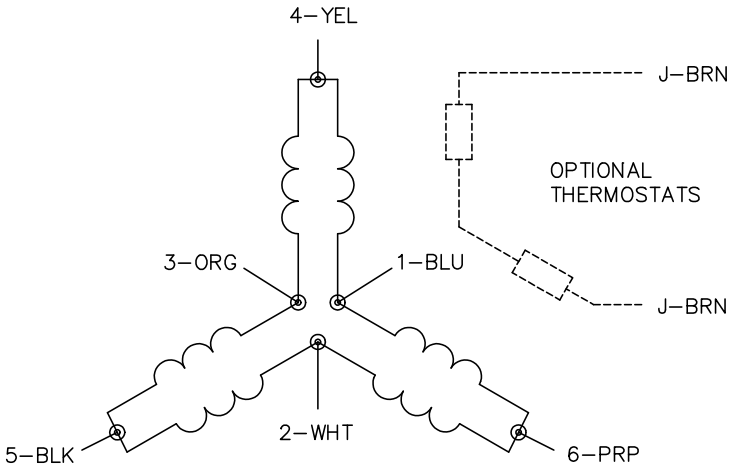
Typical performance - not guaranteed values.

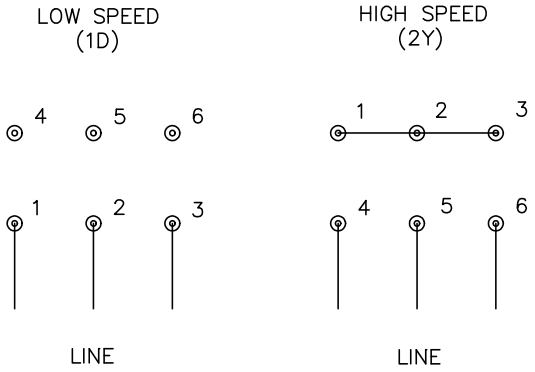
TORQUES(LB-FT): PO=15.2 PU=10.4 LR=10.6 LRA=8.3




35LYAA001
510-520 = 12.28
521-528 = 13.28
529-535 = 14.16
536-546 = 15.53
3.75
2.50
2.25
GREASE FITTING
(EACH END)
NAMEPLATE
Ø7.19
.19 KEY
1.38 LONG
Ø .8750
.8745
4.00
2.25
5.00
.50
5.94
6 HOLES
.38 DIA.
6.61
5.71
4.55
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
1.09 DIA.
2.75
2.75
4.59
3.25
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: F
VERSION: 06
REVISED: 12:55:25 03/10/2023
TDR: 000001205626
MODEL NO. 35LYAA001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5T TEFC 35M W/1.09 LEAD HOLE
35LYAA001

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