ABB BALDOR RELIANCE

Customer information packet

M3556T

1HP, 1150RPM, 3PH, 60HZ, 145T, 3522M, TEFC, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 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	3.900 A @ 208.0 V
	3.640 A @ 230.0 V
	1.820 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
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	G
Type	AC
Mech. spec.	35A001
Base	
Status	NLA/A
Elec. spec.	35WGP255
Layout	35LYA001
Eff. date	10-05-2012
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	04-06-2006

High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3522M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.31 IN
Power Factor	63
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1155 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.								
SPEC.	35A001P255H1							
HP	1							
VOLTS	208-230/460							
AMP	3.9-3.64/1.82							
RPM	1155							
FRAME	145T	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	80	**PF**	63					
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 # 22007
Typical performance - not guaranteed values

Winding: 35WGP255-R001	**Type:** 3522M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			1.00
Volts			208-230/460
Full Load Amps			3.9-3.64/1.82
R.P.M.			1155
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	80	**Power Factor**	63
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.51 LB-FT
Start Configuration	direct on line
Breakdown Torque	16.1 LB-FT
Pull-up Torque	9.1 LB-FT
Locked-rotor Torque	11.8 LB-FT
Starting Current	11 A
No-load Current	1.3 A
Line-line Res. @ 25ºC	15.5 Ω
Temp. Rise @ Rated Load	49°C
Temp. Rise @ S.F. Load	62°C
Locked-rotor Power Factor	43
Rotor inertia	0.131 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	42	54	63	70	74	67
Efficiency	65.6	76.7	80.2	81	80.3	79	80.6
Speed	1190	1180	1170	1159	1145	1131	1151
Line amperes	1.33	1.45	1.61	1.82	2.1	2.42	1.99

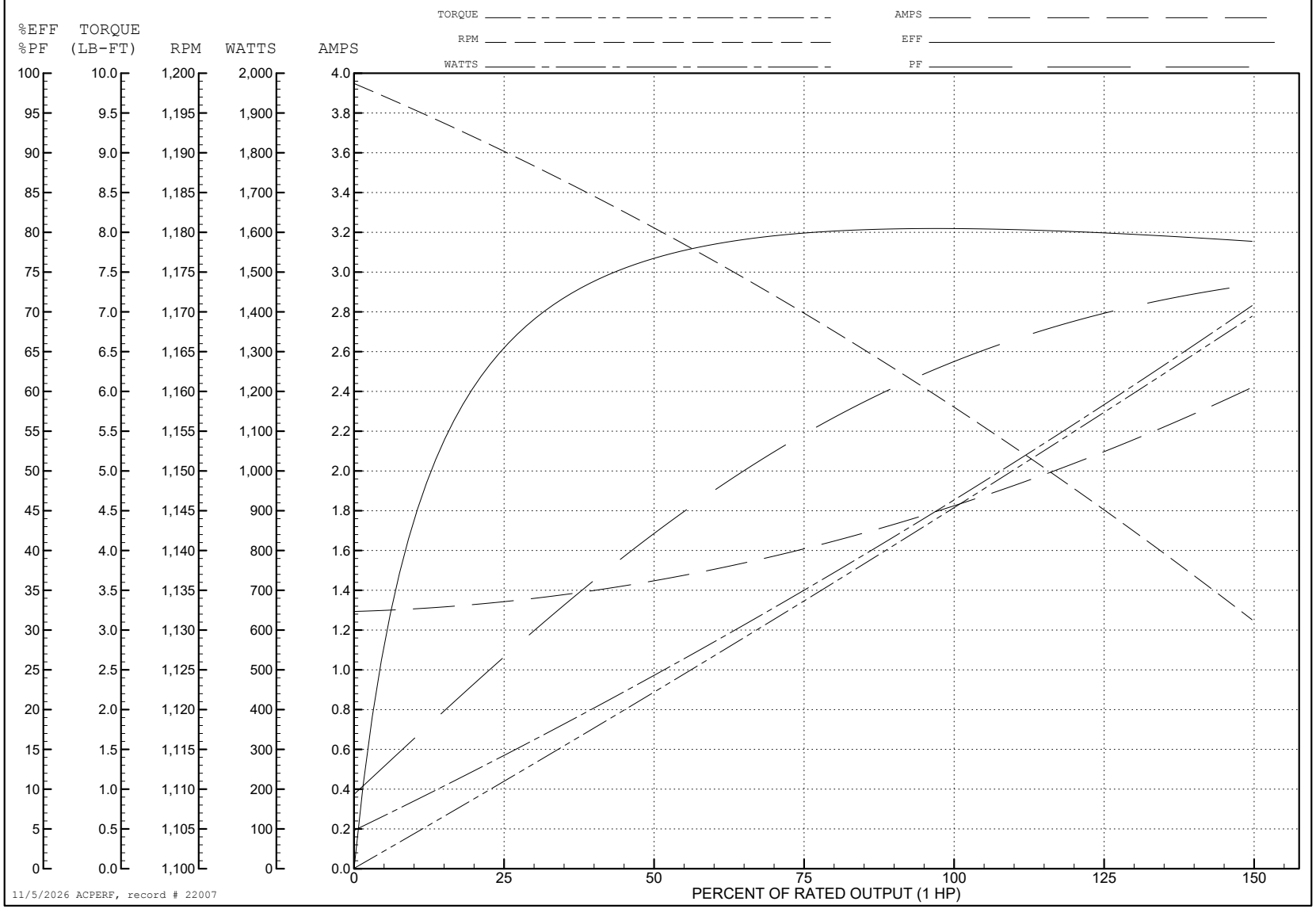
ABB Motors and Mechanical Inc.

WINDING # 35WGP255

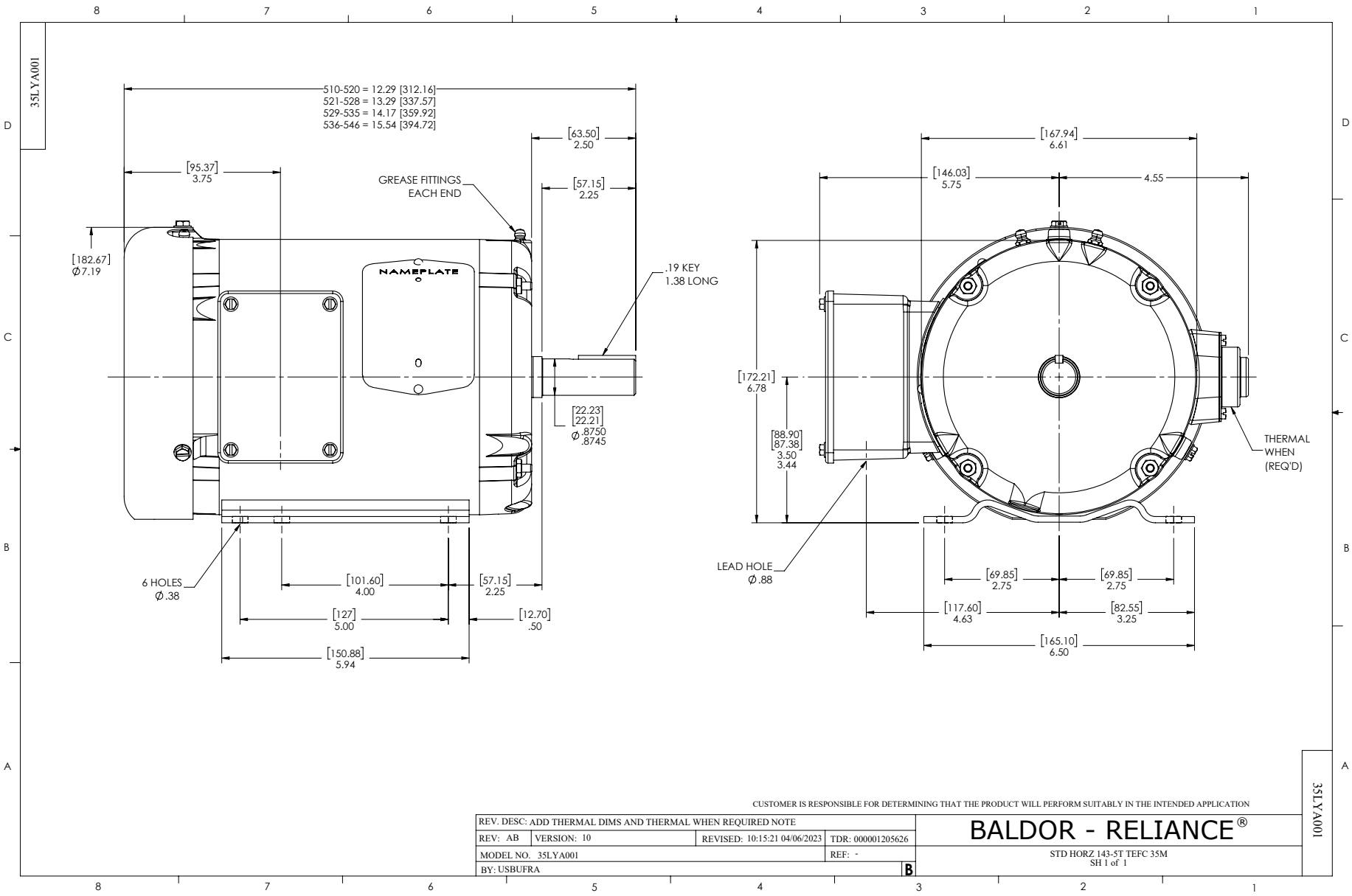
1 HP 3 PH 60 HZ 1155 RPM 460 V 3522M

Typical performance - not guaranteed values.

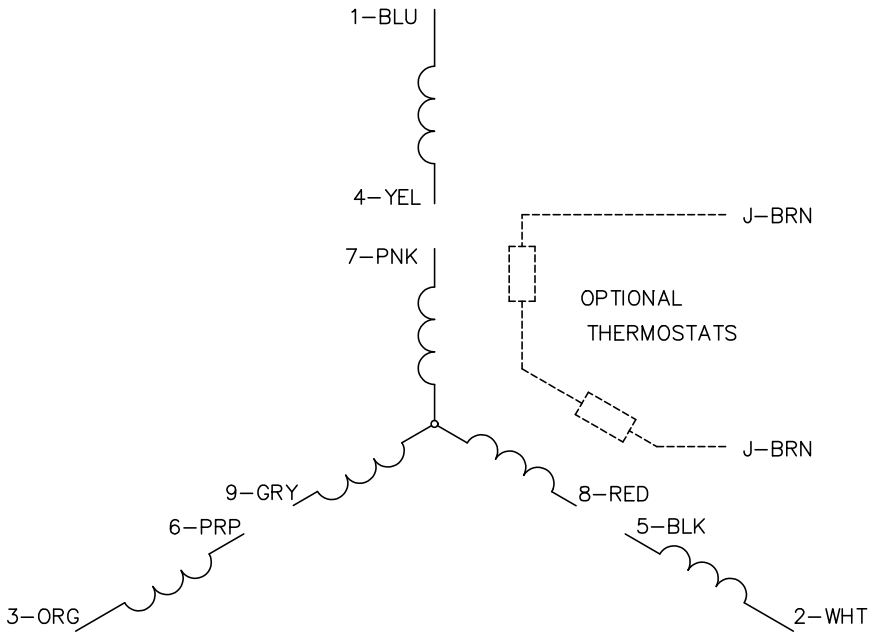
TORQUES(LB-FT): PO=16.1 PU=9.1 LR=11.8 LRA=11

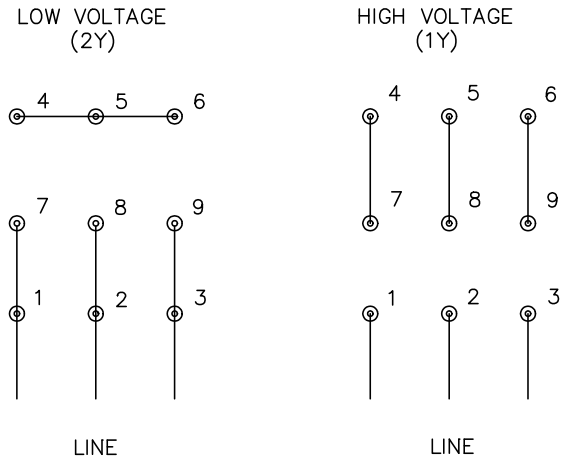


11/5/2026 ACPERF, record # 22007


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