ABB BALDOR RELIANCE

Customer information packet

M1722T

2/.89HP, 1720/1150RPM, 3PH, 60HZ, 182T, 3538M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182T
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	2.000 HP @ 60 HZ
	.890 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	2.760 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	D
Type	AC
Mech. spec.	35L100
Base	
Status	PRD/A
Elec. spec.	35WGG365
Layout	35LYL100
Eff. date	07-27-2024
CD Diagram	CD0013
Poles	04/06
Leads	6#18
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	3538M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	16.54 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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1150 rpm
	1720 rpm
Speed Code	2S-2W-VT
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.	M1722T							
SPEC.	35L100G365							
HP	2/.89							
VOLTS	460							
AMP	2.76/1.63							
RPM	1720/1150							
FRAME	182T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF		**PF**						
RATING	40C AMB-CONT							
CC								
DE	6206	**ODE**	6203					
ENCL	TEFC	**SN**						
	SFA 3.13							

AC Induction Motor Performance Data
Record # 87895
Preliminary Data Sheet

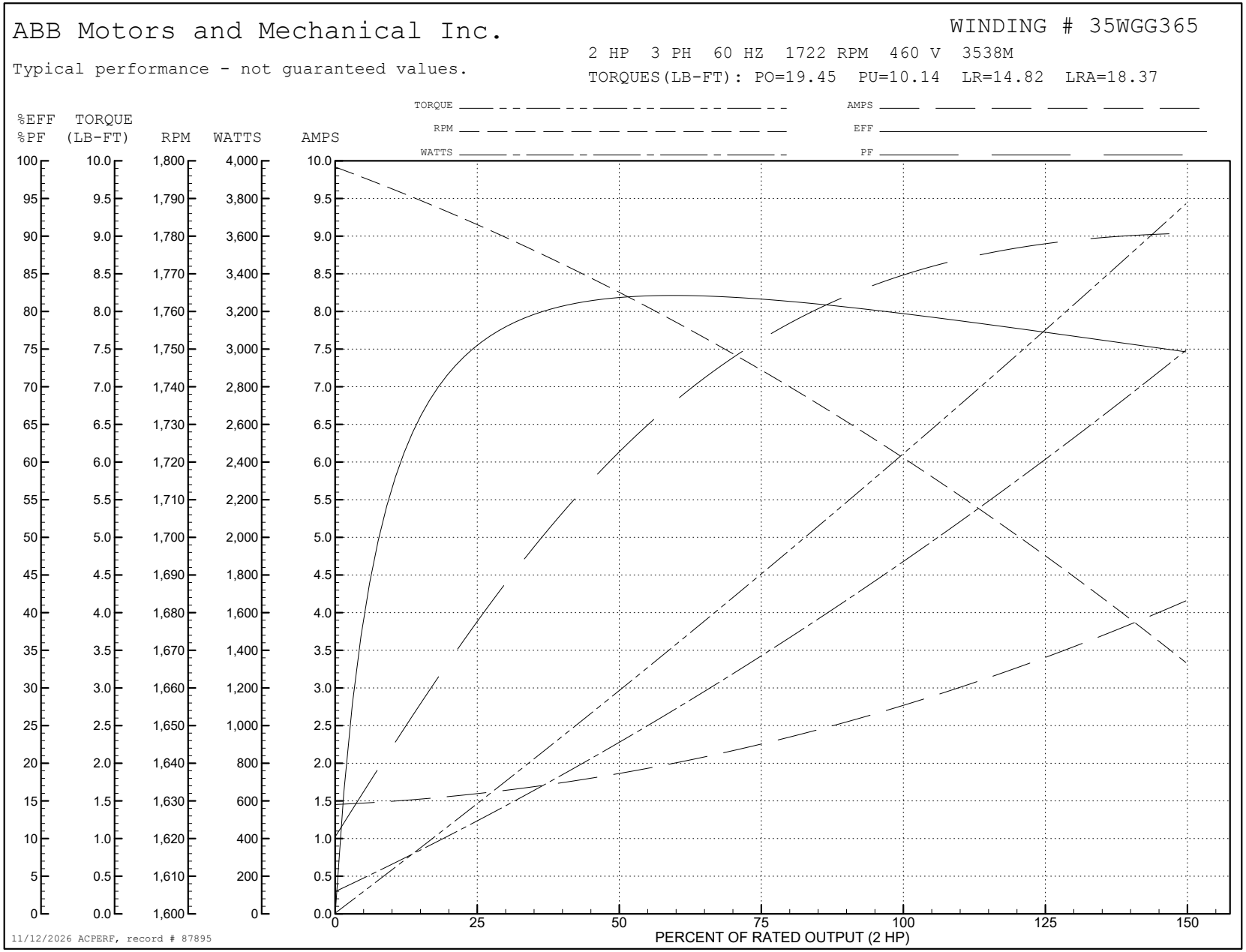
Winding: 35WGG365-R001	**Type:** 3538M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			2/.89
Volts			460
Full Load Amps			2.76/1.63
R.P.M.			1720/1150
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Speed Connection	
Full Load Torque	6.02 LB-FT
Start Configuration	direct on line
Breakdown Torque	19.45 LB-FT
Pull-up Torque	10.14 LB-FT
Locked-rotor Torque	14.82 LB-FT
Starting Current	18.37 A
No-load Current	1.47 A
Line-line Res. @ 25ºC	16.1 Ω
Temp. Rise @ Rated Load	79°C
Temp. Rise @ S.F. Load	100°C
Locked-rotor Power Factor	81.2
Rotor inertia	0.274 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	62	76	84	88	91	86
Efficiency	73.1	80.9	81.9	80.1	77.6	74.4	78.6
Speed	1783	1765	1746	1722	1698	1666	1708
Line amperes	1.57	1.84	2.23	2.76	3.38	4.14	3.13


ABB Motors and Mechanical Inc.
WINDING # 35WGG365
2 HP 3 PH 60 HZ 1722 RPM 460 V 3538M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=19.45 PU=10.14 LR=14.82 LRA=18.37
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/12/2026 ACPERF, record # 87895

AC Induction Motor Performance Data
Record # 87896
Preliminary Data Sheet

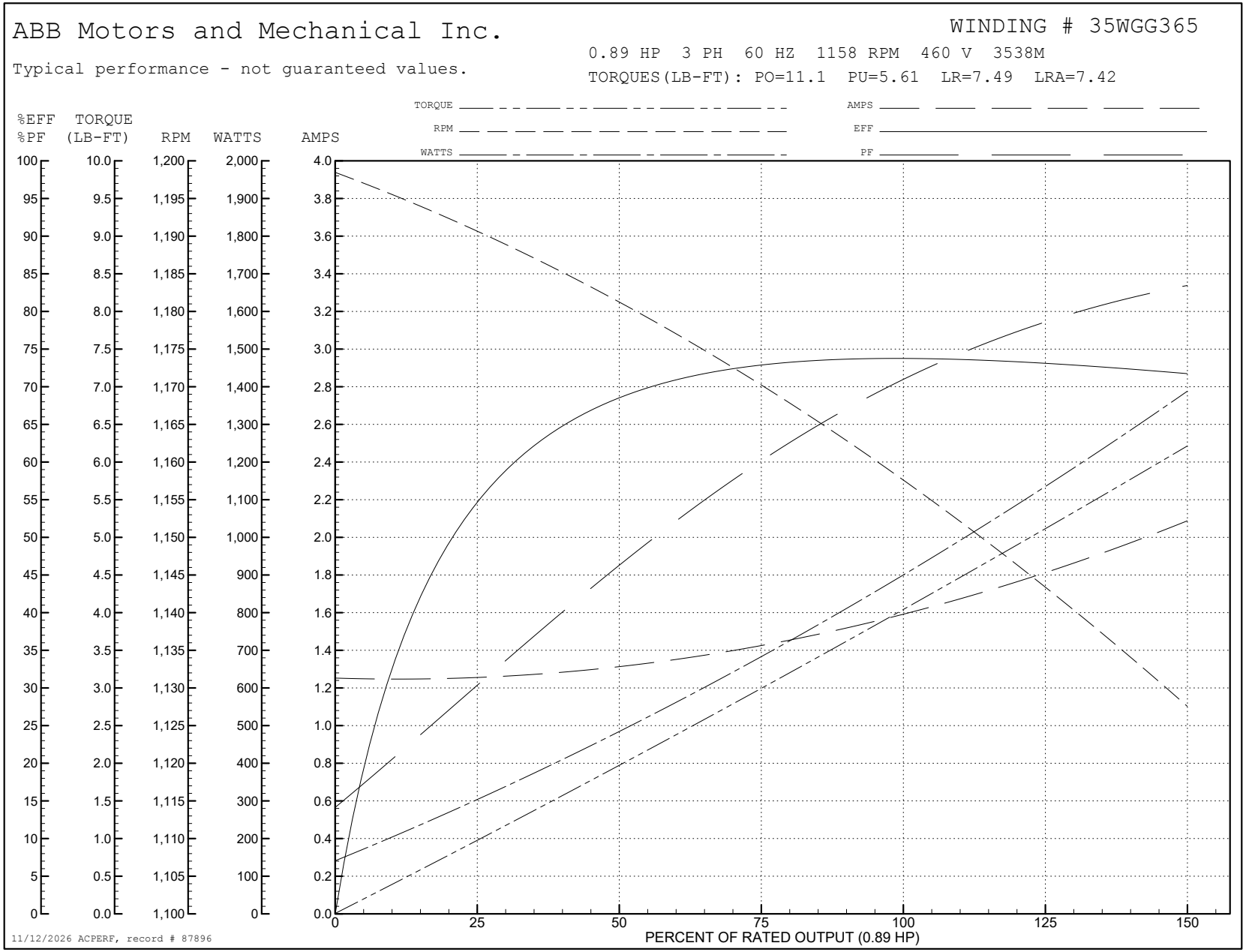
Winding: 35WGG365-R001	**Type:** 3538M	**Enclosure:** TEFC

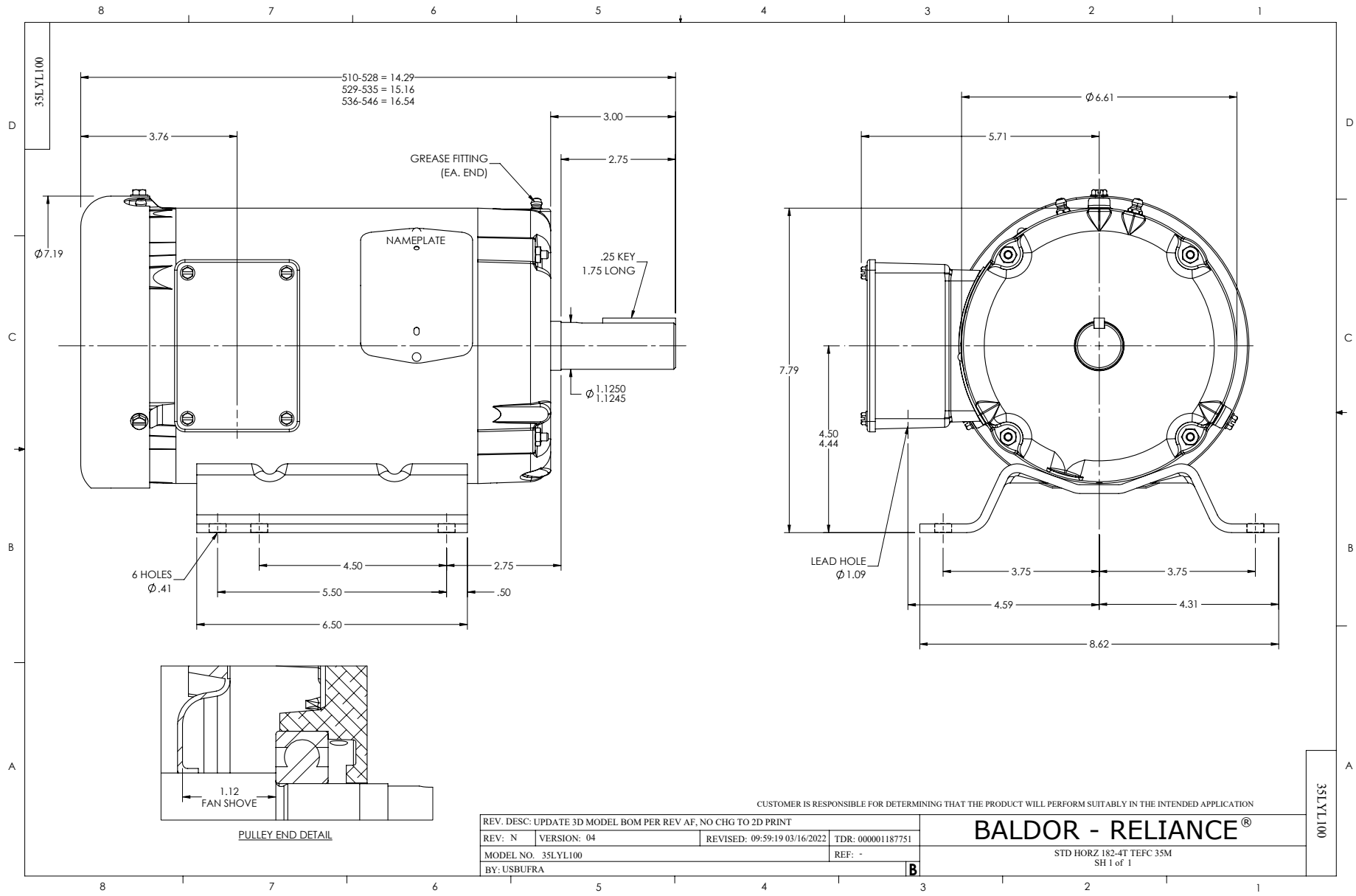
Nameplate Data			
Rated Output (HP)			2/.89
Volts			460
Full Load Amps			2.76/1.63
R.P.M.			1720/1150
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	4.04 LB-FT
Start Configuration	direct on line
Breakdown Torque	11.1 LB-FT
Pull-up Torque	5.61 LB-FT
Locked-rotor Torque	7.49 LB-FT
Starting Current	7.42 A
No-load Current	1.25 A
Line-line Res. @ 25ºC	41.5 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	81.2
Rotor inertia	0.274 lb-ft²

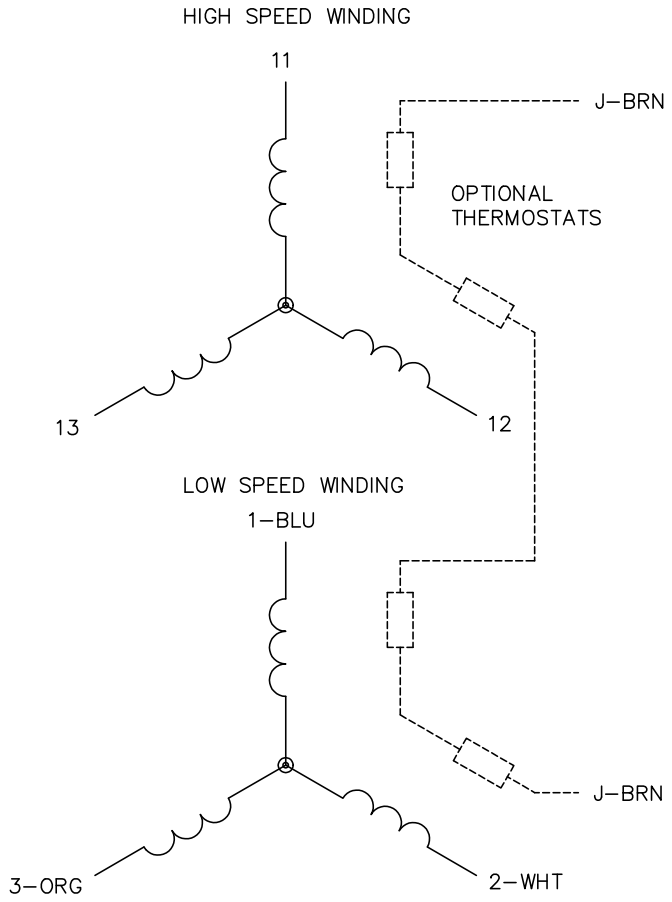
Load Characteristics 460 V, 60 Hz, 0.89 HP

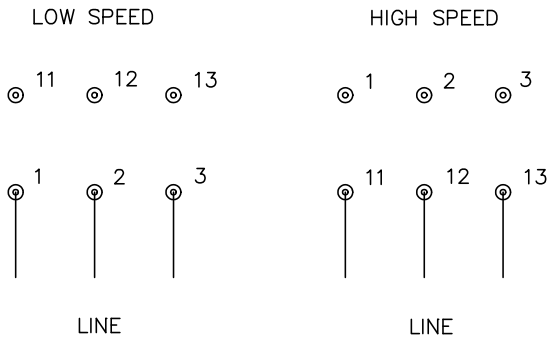
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	47	60	71	78	84	75
Efficiency	54	67.9	72.8	74.1	73.5	71.5	73.7
Speed	1190	1181	1170	1158	1144	1127	1150
Line amperes	1.26	1.31	1.43	1.59	1.81	2.09	1.72


ABB Motors and Mechanical Inc.
WINDING # 35WGG365
0.89 HP 3 PH 60 HZ 1158 RPM 460 V 3538M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=11.1 PU=5.61 LR=7.49 LRA=7.42
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.89 HP)
11/12/2026 ACPERF, record # 87896


35LYL100
510-528 = 14.29
529-535 = 15.16
536-546 = 16.54
3.00
3.76
2.75
GREASE FITTING
(EA. END)
Ø7.19
NAMEPLATE
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
6 HOLES
Ø.41
4.50
2.75
5.50
.50
6.50
Ø6.61
5.71
7.79
4.50
4.44
LEAD HOLE
Ø 1.09
3.75
3.75
4.59
4.31
8.62
1.12
FAN SHOVE
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AF, NO CHG TO 2D PRINT
REV: N
VERSION: 04
REVISED: 09:59:19 03/16/2022
TDR: 000001187751
MODEL NO. 35LYL100
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 35M
SH 1 of 1
35LYL100

CD0013





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 VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013