ABB BALDOR RELIANCE

Customer information packet

CM3559T

3HP, 3450RPM, 3PH, 60HZ, 145TC, 3532M, TEFC, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	7.900 A @ 208.0 V
	7.400 A @ 230.0 V
	3.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
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	H
Type	AC
Mech. spec.	35T856
Base	
Status	NLA/A
Elec. spec.	35WGP974
Layout	35LYT856
Eff. date	01-13-2011
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-31-2008

High Voltage Full Load Amps	3.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.17 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	3450 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.	35T856P974H1							
HP	3							
VOLTS	208-230/460							
AMP	7.9-7.4/3.7							
RPM	3450							
FRAME	145TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	85.5	**PF**	90					
RATING	40C AMB-CONT							
CC	010A							
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						

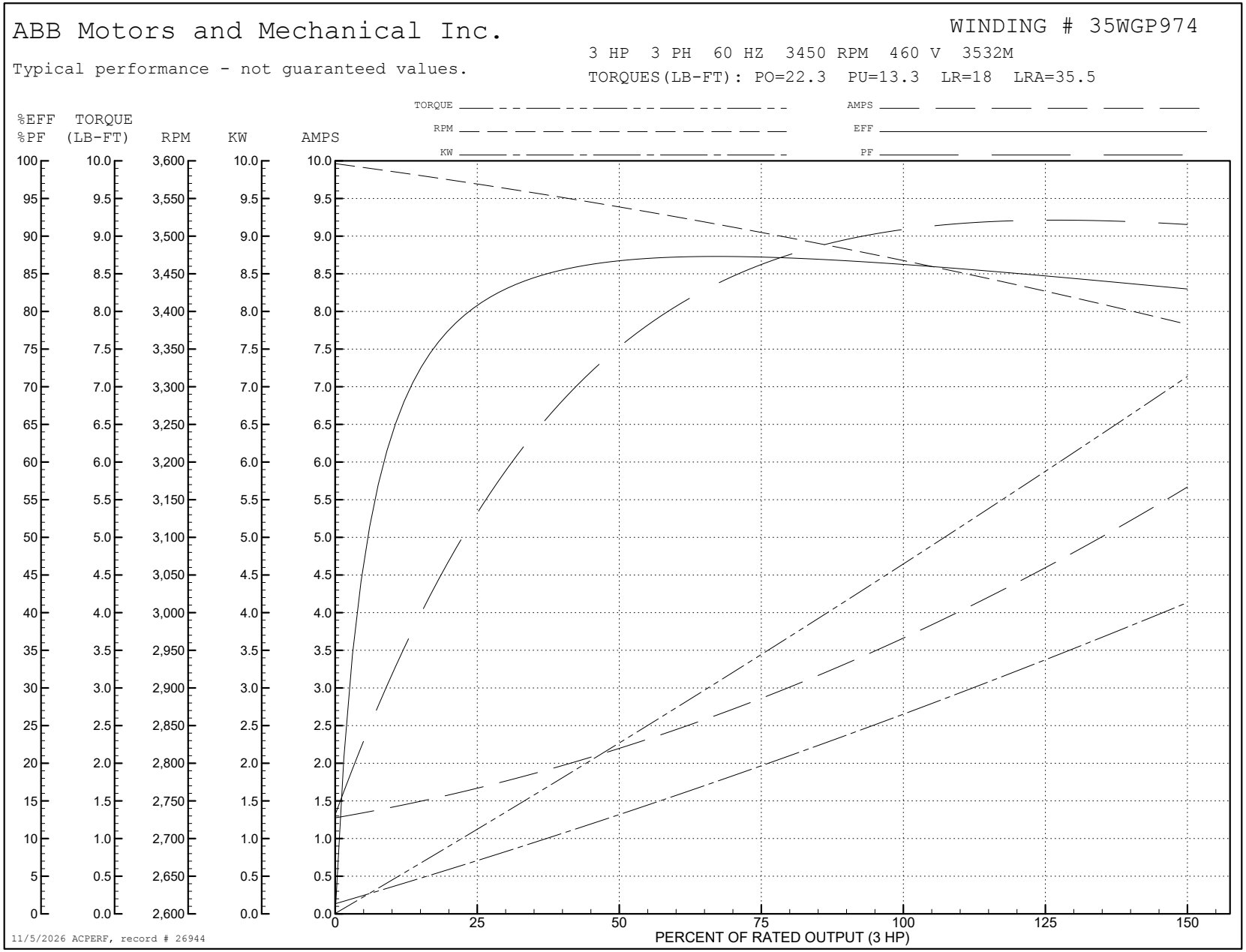
AC Induction Motor Performance Data
Record # 26944
Typical performance - not guaranteed values

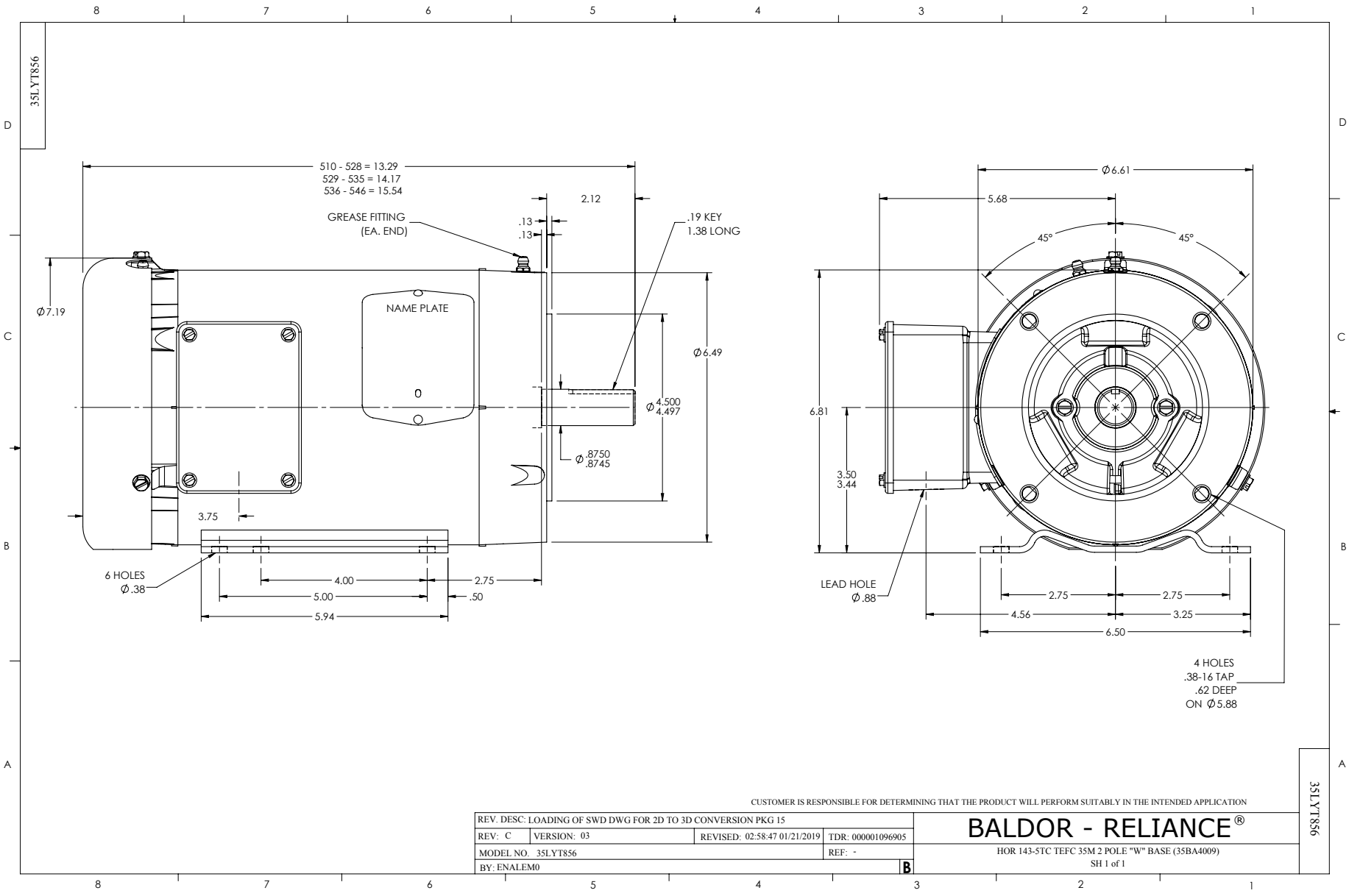
Winding: 35WGP974-R001	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.704 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			7.9-7.4/3.7	**Breakdown Torque**	22.3 LB-FT
R.P.M.			3450	**Pull-up Torque**	13.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	18 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	35.5 A
Service Factor (S.F.)			1.15	**No-load Current**	1.32 A
NEMA Nom. Eff.	85.5	**Power Factor**	86	**Line-line Res. @ 25ºC**	5.09 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	80°C

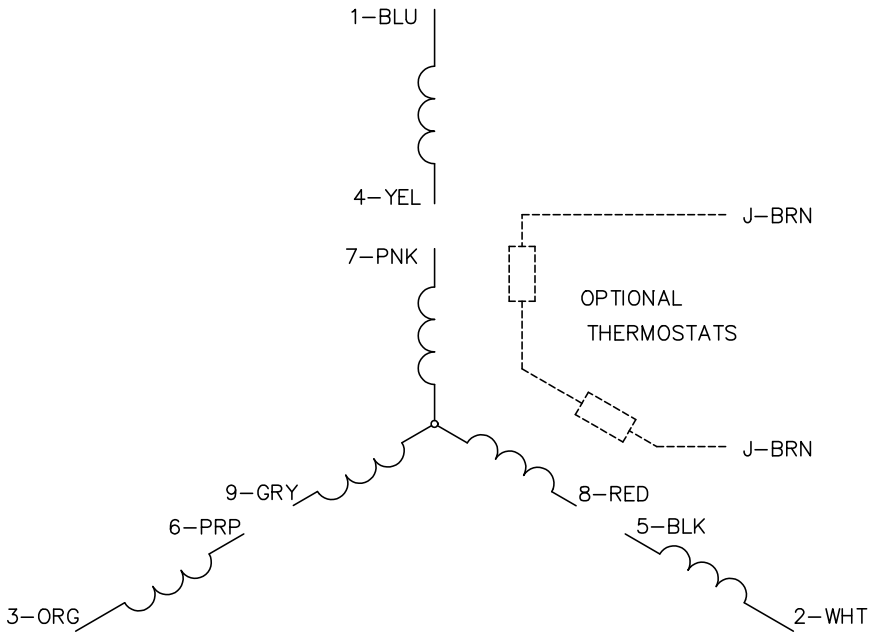
Load Characteristics 460 V, 60 Hz, 3 HP

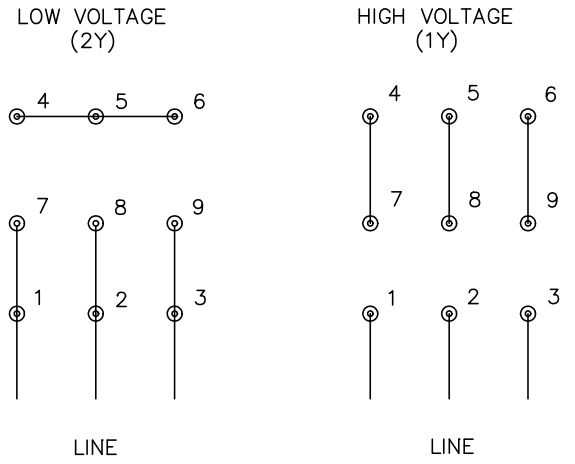
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	78	86	90	91	92	91
Efficiency	81.3	86.4	87	86.5	84.8	82.9	85.5
Speed	3564	3535	3501	3467	3426	3381	3442
Line amperes	1.65	2.22	2.98	3.73	4.68	5.64	4.3


ABB Motors and Mechanical Inc.
WINDING # 35WGP974
3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=22.3 PU=13.3 LR=18 LRA=35.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/5/2026 ACPERF, record # 26944


35LYT856
510 - 528 = 13.29
529 - 535 = 14.17
536 - 546 = 15.54
2.12
GREASE FITTING
(EA. END)
.13
.13
.19 KEY
1.38 LONG
Ø7.19
NAME PLATE
Ø6.49
Ø 4.500
4.497
Ø .8750
.8745
3.75
6 HOLES
Ø .38
4.00
2.75
5.00
.50
5.94
Ø6.61
5.68
45°
45°
6.81
3.50
3.44
LEAD HOLE
Ø .88
2.75
2.75
4.56
3.25
6.50
4 HOLES
.38-16 TAP
.62 DEEP
ON Ø5.88
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION PKG 15
REV: C
VERSION: 03
REVISED: 02:58:47 01/21/2019
TDR: 000001096905
MODEL NO. 35LYT856
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 143-5TC TEFC 35M 2 POLE "W" BASE (35BA4009)
SH 1 of 1
35LYT856

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