ABB BALDOR RELIANCE

Customer information packet

CEWDM23994T

15HP, 3500RPM, 3PH, 60HZ, 254TC, 3752M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254TC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	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	33.200 A @ 230.0 V
	36.400 A @ 208.0 V
	16.600 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AE
Type	AC
Mech. spec.	37H882
Base	
Status	PRD/A
Elec. spec.	37WGT381
Layout	37LYH882
Eff. date	04-30-2025
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	16.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.89 IN
Power Factor	90
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

NP1669L									
CAT.NO.	CEWDM23994T								
SPEC.	37H882T381G1								
HP	15								
VOLTS	230/460								
AMP	33.2/16.6								
RPM	3500								
FRAME	254TC	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	91	**PF**	90						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6206						
ENCL	TEFC	**SN**							
BLANK	20:1CT, 20:1VT								

AC Induction Motor Performance Data
Record # 33531
Typical performance - not guaranteed values

Winding: 37WGT381-R001	**Type:** 3752M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			33.2/16.6	**Breakdown Torque**	104 LB-FT
R.P.M.			3500	**Pull-up Torque**	56.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	63.6 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	161 A
Service Factor (S.F.)			1.15	**No-load Current**	4.43 A
NEMA Nom. Eff.	91	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.51091 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	31
				Rotor inertia	0.475 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	69	87	92	93	94	94	94
Efficiency	88.8	92	92.1	91.5	90.4	89	90.8
Speed	3573.5	3549.1	3521.8	3495.3	3464.8	3432.8	3477
Line amperes	5.91	8.94	12.6	16.5	20.6	25	19

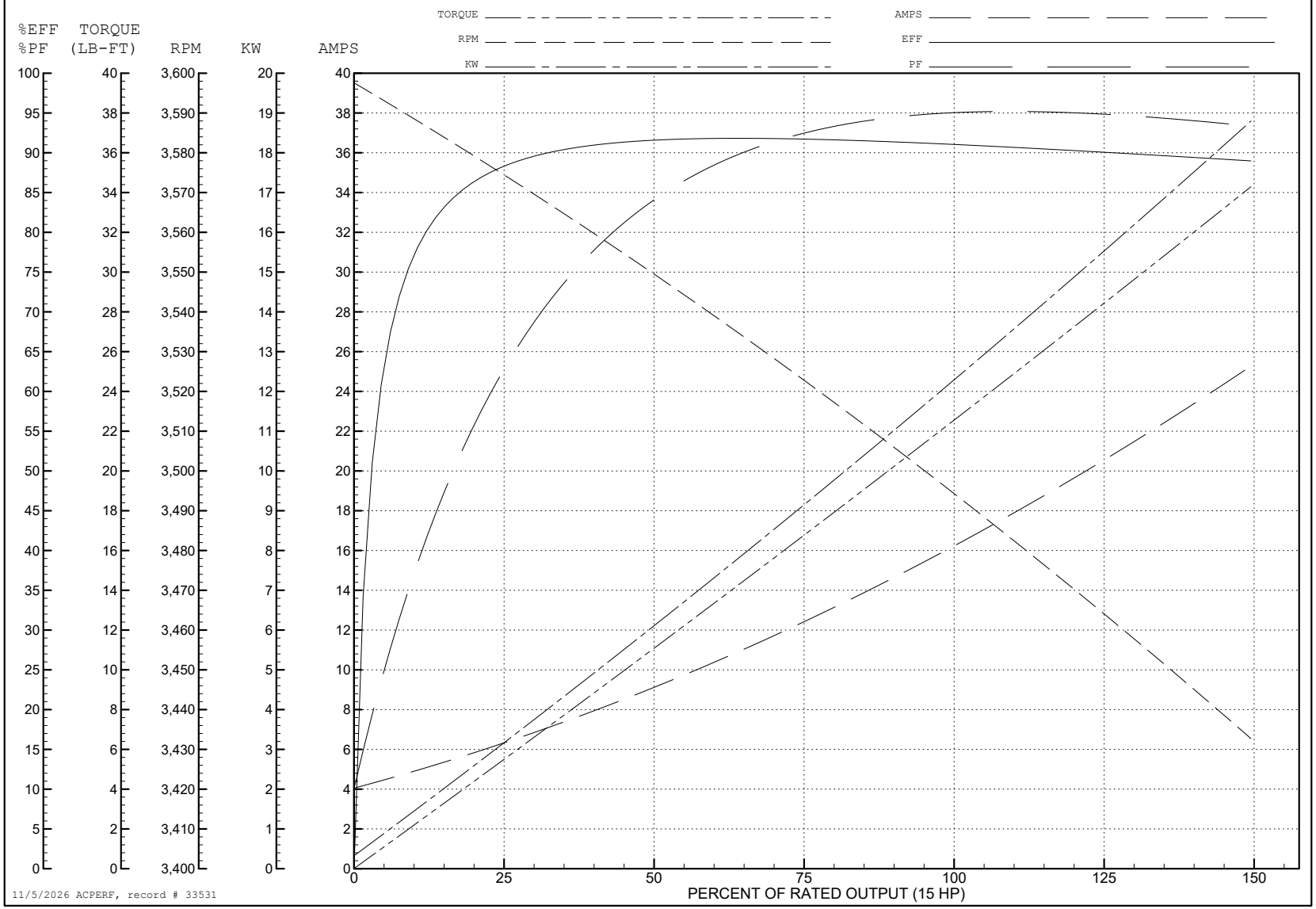
ABB Motors and Mechanical Inc.

WINDING # 37WGT381

15 HP 3 PH 60 HZ 3500 RPM 460 V 3752M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=104 PU=56.8 LR=63.6 LRA=161



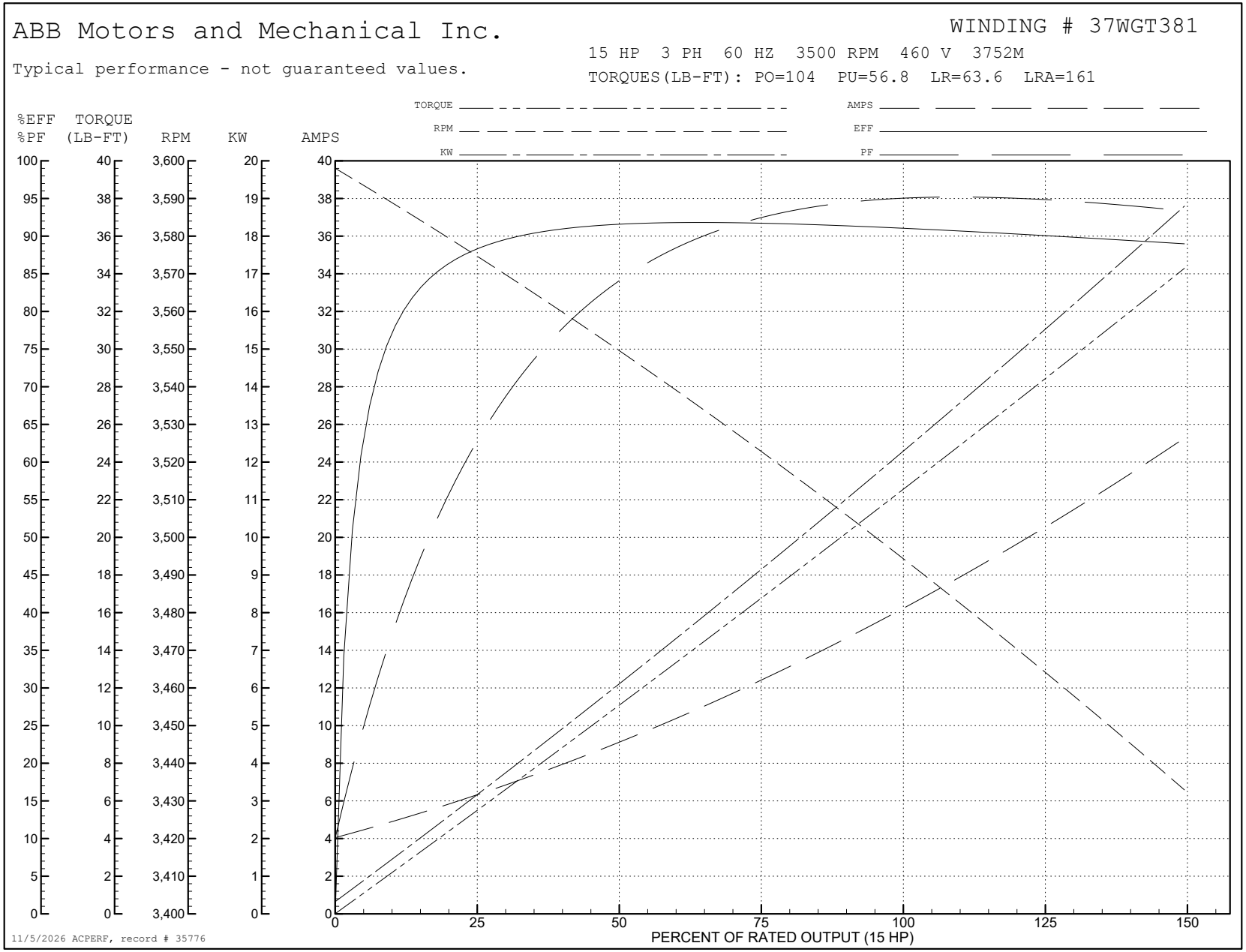
AC Induction Motor Performance Data
Record # 35776
Typical performance - not guaranteed values

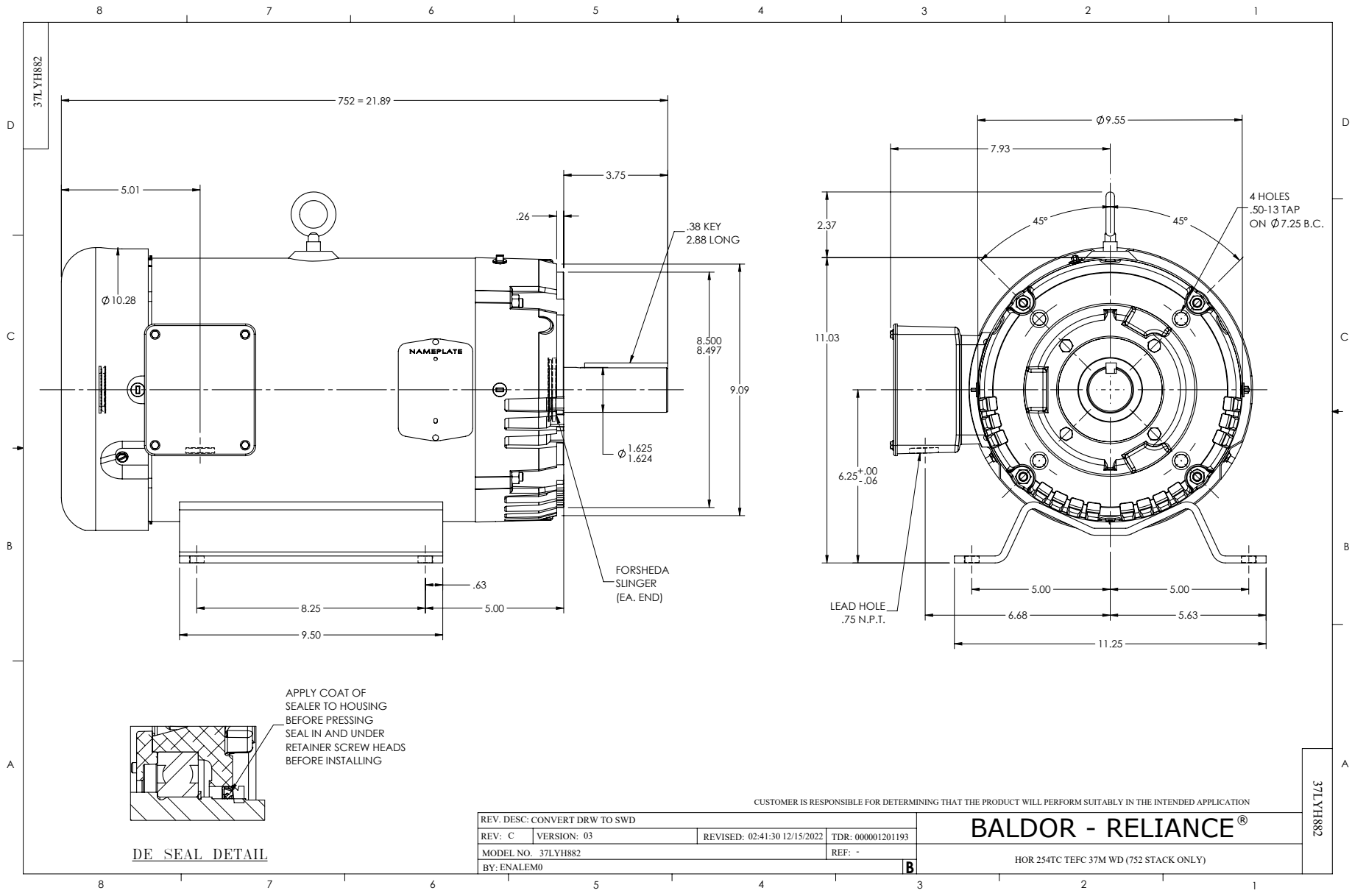
Winding: 37WGT381-R007	**Type:** 3752M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			33.2/16.6	**Breakdown Torque**	104 LB-FT
R.P.M.			3500	**Pull-up Torque**	56.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	63.6 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	161 A
Service Factor (S.F.)			1.15	**No-load Current**	4.43 A
NEMA Nom. Eff.	91	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.479 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	31
				Rotor inertia	0.475 LB-FT2

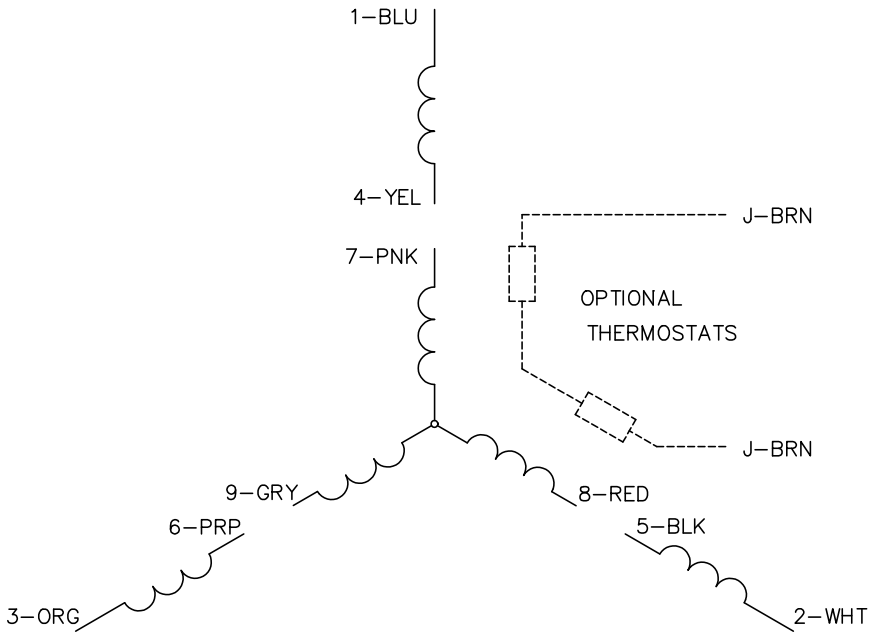
Load Characteristics 460 V, 60 Hz, 15 HP

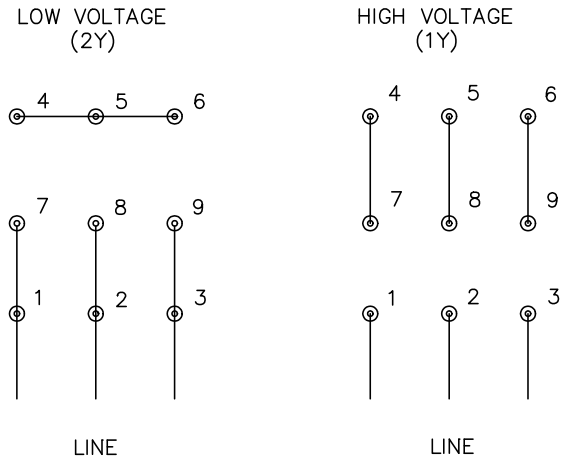
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	69	87	92	93	94	94	94
Efficiency	88.3	91.5	91.8	91.2	90.1	89	90.5
Speed	3574	3549	3522	3495	3465	3433	3477
Line amperes	5.91	8.94	12.6	16.5	20.6	25	19


ABB Motors and Mechanical Inc.
WINDING # 37WGT381
15 HP 3 PH 60 HZ 3500 RPM 460 V 3752M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=104 PU=56.8 LR=63.6 LRA=161
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/5/2026 ACPERF, record # 35776


37LYH882
752 = 21.89
5.01
3.75
.26
.38 KEY
2.88 LONG
Ø10.28
NAMEPLATE
8.500
8.497
9.09
Ø1.625
1.624
.63
8.25
5.00
9.50
FORSHEDA
SLINGER
(EA. END)
Ø9.55
7.93
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
45°
45°
2.37
11.03
6.25 +.00 -.06
LEAD HOLE
.75 N.P.T.
5.00
5.00
6.68
5.63
11.25
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN AND UNDER
RETAINER SCREW HEADS
BEFORE INSTALLING
DE SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW TO SWD
REV: C
VERSION: 03
REVISED: 02:41:30 12/15/2022
TDR: 000001201193
MODEL NO. 37LYH882
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 254TC TEFC 37M WD (752 STACK ONLY)
37LYH882

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