ABB BALDOR RELIANCE

Customer information packet

CEDM3709T

7.5HP, 3520RPM, 3PH, 60HZ, 213TC, 3728M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213TC
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	7.500 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	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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
Constant Torque Speed Range	6
Current @ Voltage	9.000 A @ 460.0 V
	19.000 A @ 208.0 V
	18.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	F
Type	AC
Mech. spec.	37N854
Base	
Status	PRD/A
Elec. spec.	37WGR224
Layout	37LYN854
Eff. date	06-24-2021
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-14-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.63 IN
Power Factor	84
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3520 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

NP3504								
CAT NO	CEDM3709T							
SPEC.	37N854R224G1			**ENCL**	TEFC			
FRAME	213TC	**HP**	7.5					
VOLTS	230/460							
FLA	18/9			**I.P.**	56			
RPM	3520	**RPM MAX**		5400				
HZ	60	**PH**	3	**CLASS**	F			
SER.F.	1.15	**DES**	A	**CC**	010A			
NEMA-NOM-EFF	89.5							
RATING	40C AMB-CONT							
DE BRG	6307	**ODE BRG**		6206				
GREASE	POLYREX EM							
C HP FR	60	**C HP TO**	90					
CT HZ FROM	6	**CT HZ TO**	60	**VT HZ FROM**	6	**VT HZ TO**	60	
SER.NO								
	50C AT 1.0 SF							

AC Induction Motor Performance Data
Record # 55732
Typical performance - not guaranteed values

Winding: 37WGR224-R038	**Type:** 3728M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	10.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			18/9	**Breakdown Torque**	40.4 LB-FT
R.P.M.			3520	**Pull-up Torque**	20.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.8 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	68.4 A
Service Factor (S.F.)			1.15	**No-load Current**	3.73 A
NEMA Nom. Eff.	89.5	**Power Factor**	84	**Line-line Res. @ 25ºC**	1.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps				**Temp. Rise @ S.F. Load**	55°C
				Locked-rotor Power Factor	33
				Rotor inertia	0.255 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	69	79	84	87	89	86
Efficiency	81.5	88.8	90.5	90.7	90.2	89.4	90.3
Speed	3581	3563	3542	3520	3496	3471	3506
Line amperes	4.22	5.36	7.03	8.94	11	13.1	10.2

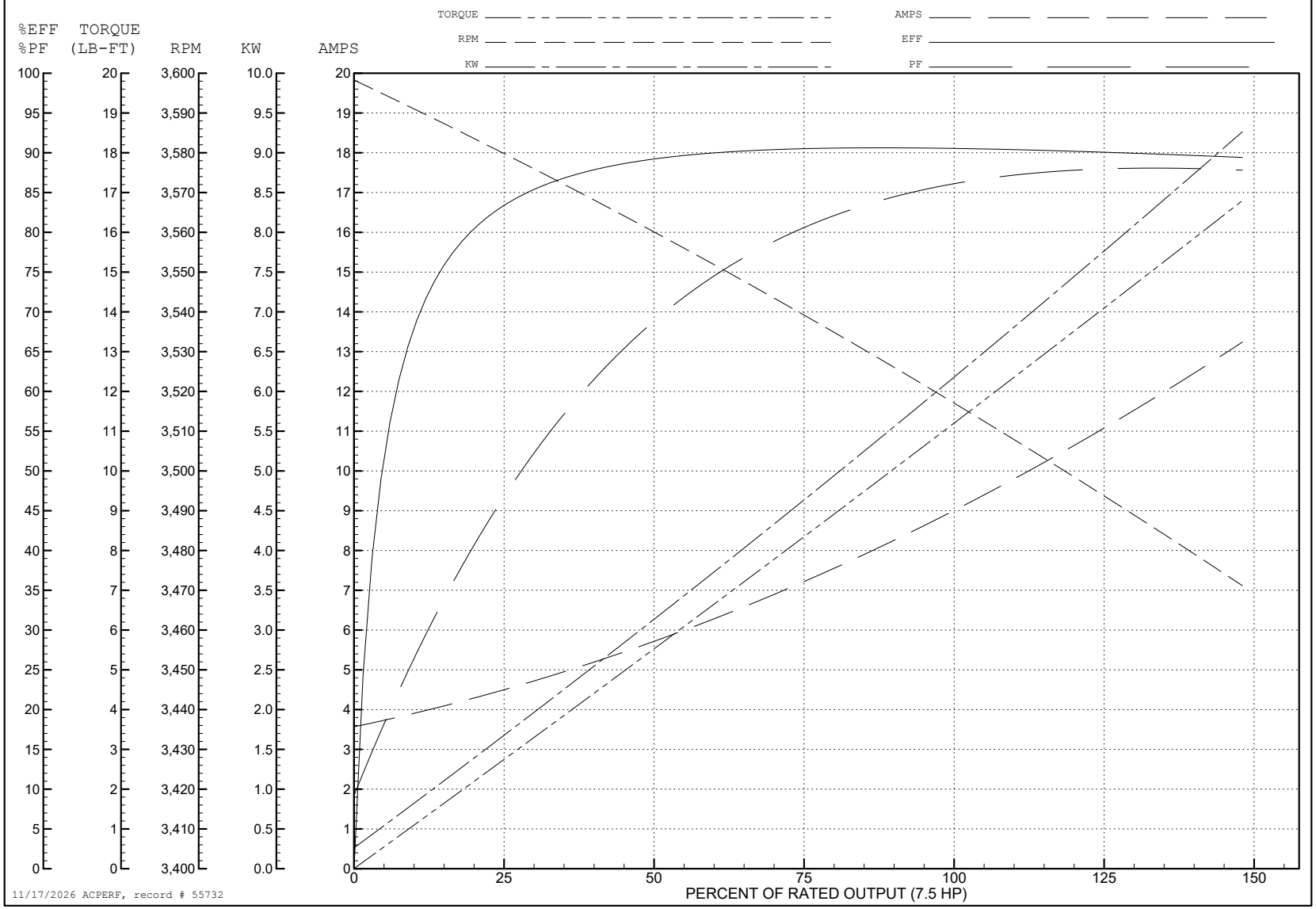
ABB Motors and Mechanical Inc.

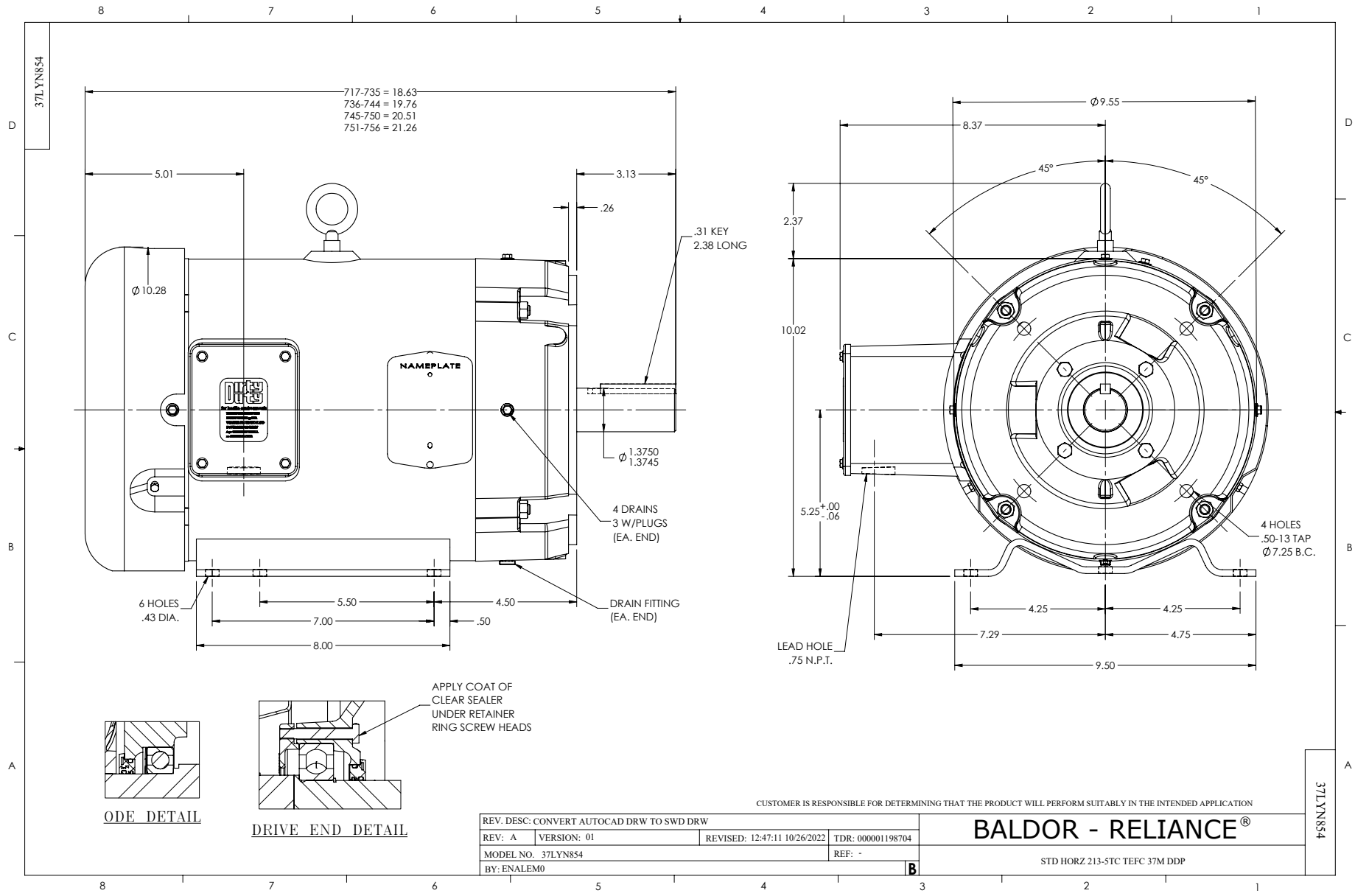
WINDING # 37WGR224

7.5 HP 3 PH 60 HZ 3520 RPM 460 V 3728M

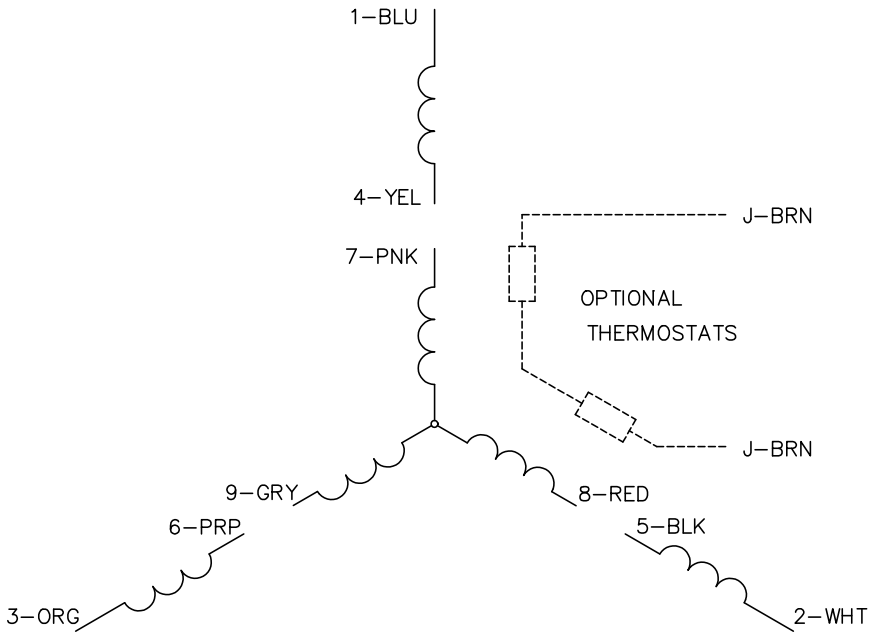
Typical performance - not guaranteed values.

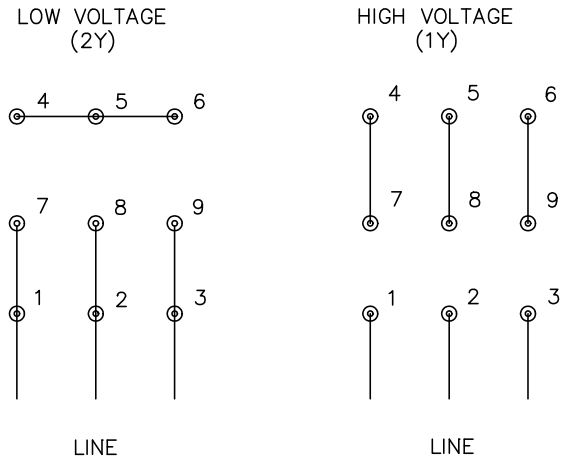
TORQUES(LB-FT): PO=40.4 PU=20.6 LR=21.8 LRA=68.4




37LYN854
717-735 = 18.63
736-744 = 19.76
745-750 = 20.51
751-756 = 21.26
5.01
3.13
.26
.31 KEY
2.38 LONG
Ø10.28
NAMEPLATE
Ø1.3750
1.3745
4 DRAINS
3 W/PLUGS
(EA. END)
6 HOLES
.43 DIA.
5.50
4.50
7.00
.50
8.00
DRAIN FITTING
(EA. END)
Ø9.55
8.37
45°
45°
2.37
10.02
5.25 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
4.25
4.25
7.29
4.75
9.50
LEAD HOLE
.75 N.P.T.
APPLY COAT OF
CLEAR SEALER
UNDER RETAINER
RING SCREW HEADS
ODE DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 12:47:11 10/26/2022
TDR: 000001198704
MODEL NO. 37LYN854
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC 37M DDP
37LYN854

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