ABB BALDOR RELIANCE

Customer information packet

CEWDM3709T-5

7.5HP, 3500RPM, 3PH, 60HZ, 213TC, 3738M, 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	575.0 V @ 60 HZ
Agency Approvals	UR
	CSA
	CSA EEV
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	7.000 A @ 575.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	7.0 a
Insulation Class	F

Part Detail

Revision	S
Type	AC
Mech. spec.	37H887
Base	
Status	PRD/A
Elec. spec.	37WGY767
Layout	37LYH887
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	10-18-2011

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.78 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	1.375 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.	CEWDM3709T-5								
SPEC.	37H887Y767G1								
HP	7.5								
VOLTS	575								
AMP	7								
RPM	3500								
FRAME	213TC	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	91	**PF**	90						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
BLANK									

AC Induction Motor Performance Data
Record # 84466
Typical performance - not guaranteed values

Winding: 37WGY767-R001	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	11.2 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			7	**Breakdown Torque**	54 LB-FT
R.P.M.			3500	**Pull-up Torque**	24 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	69 A
Service Factor (S.F.)			1.15	**No-load Current**	2 A
NEMA Nom. Eff.	91	**Power Factor**	90	**Line-line Res. @ 25ºC**	1.59 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	37°C
S.F. Amps				**Temp. Rise @ S.F. Load**	46°C
				Locked-rotor Power Factor	32.5
				Rotor inertia	0.347 lb-ft²

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	62	81	86	89	90	86	90
Efficiency	85.1	90	91.2	91.1	90.5	89.4	90.7
Speed	3578	3557	3538	3516	3493	3463	3502
Line amperes	2.7	3.9	5.4	6.9	8.6	10.8	7.92

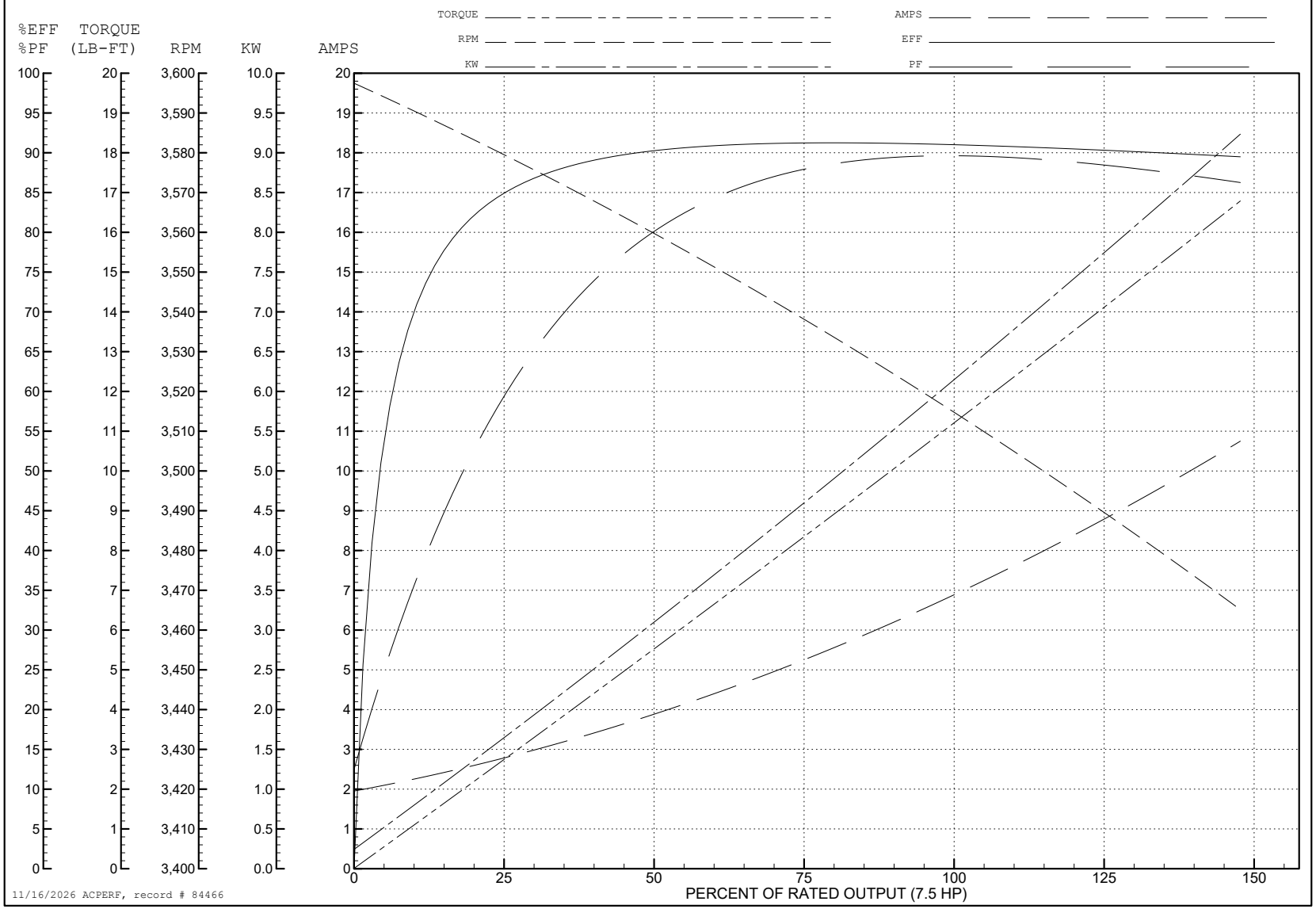
ABB Motors and Mechanical Inc.

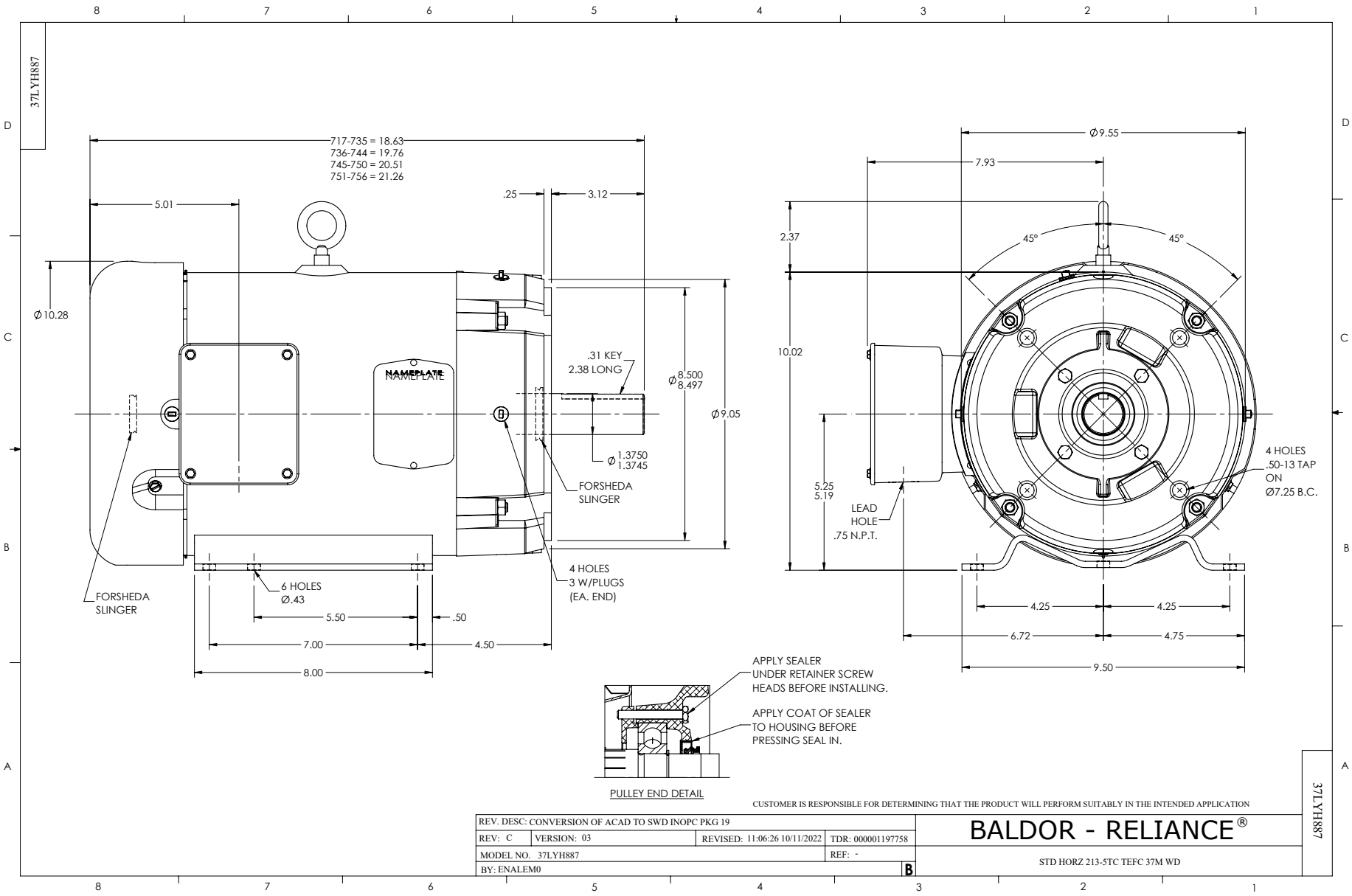
WINDING # 37WGY767

7.5 HP 3 PH 60 HZ 3500 RPM 575 V 3738M

Typical performance - not guaranteed values.

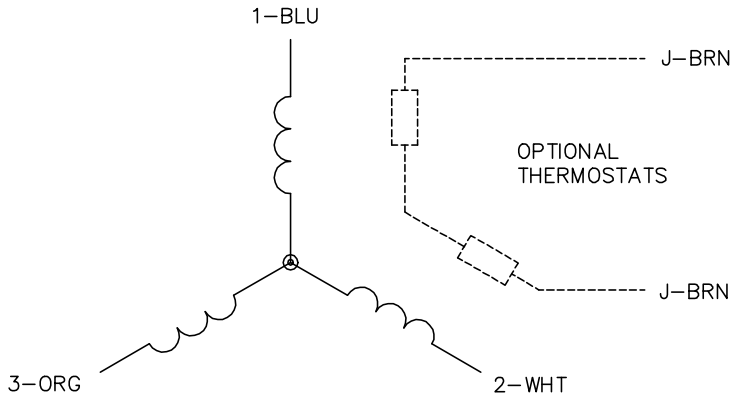
TORQUES(LB-FT): PO=54 PU=24 LR=32 LRA=69

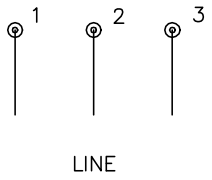



37LYH887
717-735 = 18.63
736-744 = 19.76
745-750 = 20.51
751-756 = 21.26
5.01
.25
3.12
Ø10.28
NAMEPLATE
NAMEPLATE
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.05
Ø 1.3750
1.3745
FORSHEDA
SLINGER
FORSHEDA
SLINGER
6 HOLES
Ø.43
4 HOLES
3 W/PLUGS
(EA. END)
5.50
.50
7.00
4.50
8.00
Ø9.55
7.93
2.37
45°
45°
10.02
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.72
4.75
9.50
APPLY SEALER
UNDER RETAINER SCREW
HEADS BEFORE INSTALLING.
APPLY COAT OF SEALER
TO HOUSING BEFORE
PRESSING SEAL IN.
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: C
VERSION: 03
REVISED: 11:06:26 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH887
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC 37M WD
37LYH887

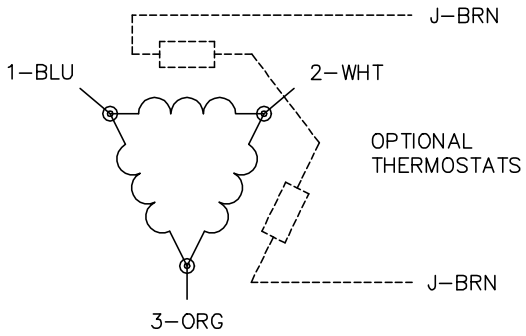
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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