ABB BALDOR RELIANCE

Customer information packet

EM3710T-9

7.5HP, 1765RPM, 3PH, 60HZ, 213T, 3744M, TEFC, F
Class - None
Division - Not Applicable

8/14/2026 6:37:02 PM

Specifications

Enclosure	TEFC
Frame	213T
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	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
Current @ Voltage	21.500 A @ 208.0 V
	20.200 A @ 230.0 V
	10.100 A @ 460.0 V
Design Code	C
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	M
Type	AC
Mech. spec.	37N527
Base	
Status	PRD/A
Elec. spec.	37WGR648
Layout	37LYN527
Eff. date	03-09-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	10-28-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.1 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.02 IN
Power Factor	76
Product Family	WP Below Decks Marine Duty
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	1765 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

NP1267L									
CAT.NO.	EM3710T-9								
SPEC.	37N527R648G1								
HP	7.5								
VOLTS	230/460								
AMP	20.2/10.1								
RPM	1765								
FRAME	213T	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	H	**DES**	C	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	76						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		**ODE**	6206					
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 46685
Typical performance - not guaranteed values

Winding: 37WGR648-R001	**Type:** 3744M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	22.45 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		20.2-10.1	**Breakdown Torque**	61.2 LB-FT
R.P.M.		1765	**Pull-up Torque**	49.9 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	62.06 LB-FT
NEMA Design Code	C **KVA Code**	H	**Starting Current**	61.95 A
Service Factor (S.F.)		1.15	**No-load Current**	4.69 A
NEMA Nom. Eff.	91.7 **Power Factor**	76	**Line-line Res. @ 25ºC**	1.15 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps			**Temp. Rise @ S.F. Load**	76°C
			Locked-rotor Power Factor	40.2
			Rotor inertia	1.08 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	61	72	77	80	81	78
Efficiency	87.3	91.6	92.1	91.7	90.9	89.7	91.3
Speed	1792	1784	1775	1765	1753	1741	1759
Line amperes	5.22	6.43	8.07	9.97	12.2	14.53	11.4

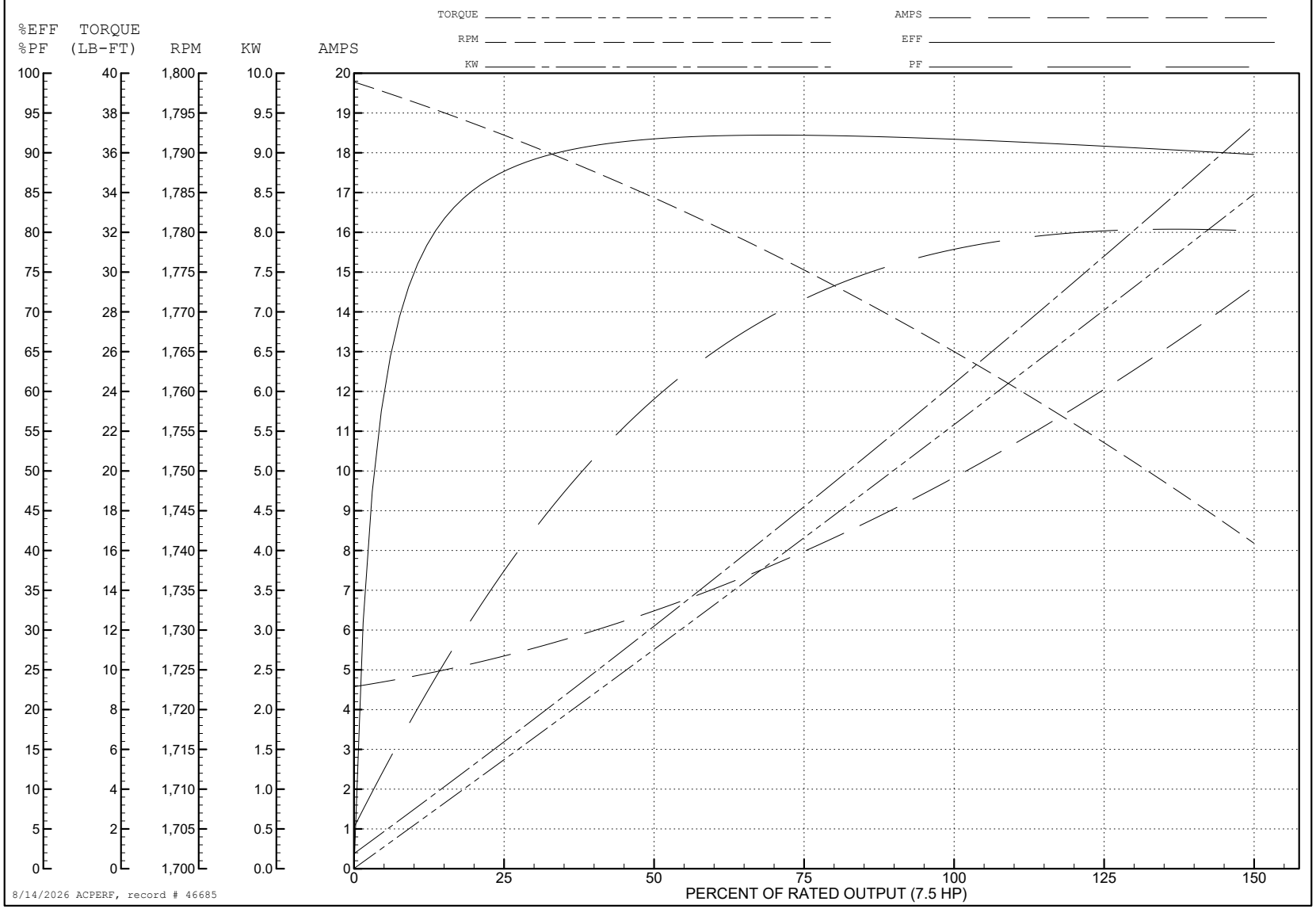
ABB Motors and Mechanical Inc.

WINDING # 37WGR648

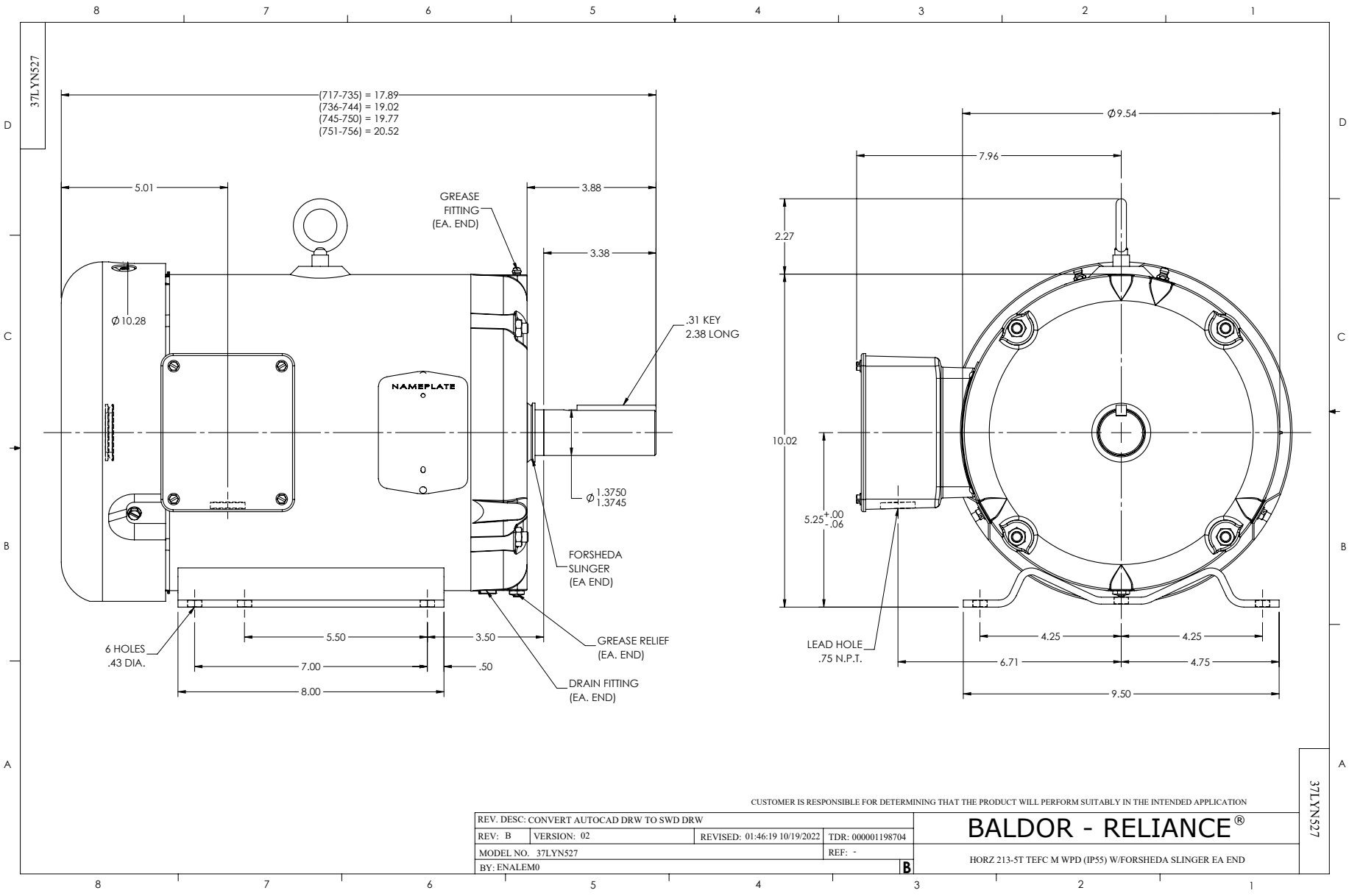
7.5 HP 3 PH 60 HZ 1765 RPM 460 V 3744M

Typical performance - not guaranteed values.

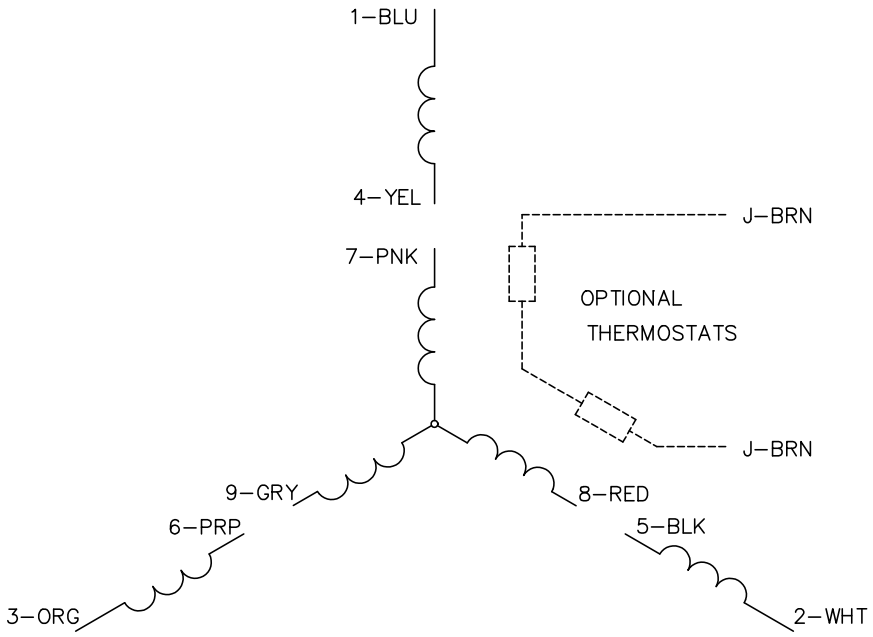
TORQUES(LB-FT): PO=61.2 PU=49.9 LR=62.06 LRA=61.95

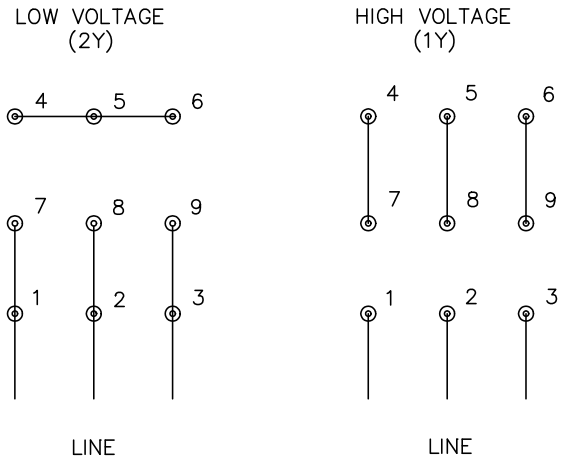


8/14/2026 ACPERF, record # 46685


37LYN527
(717-735) = 17.89
(736-744) = 19.02
(745-750) = 19.77
(751-756) = 20.52
5.01
3.88
3.38
GREASE FITTING (EA. END)
Ø10.28
.31 KEY
2.38 LONG
NAMEPLATE
Ø1.3750
1.3745
FORSHEDA SLINGER (EA END)
6 HOLES .43 DIA.
5.50
3.50
7.00
.50
8.00
GREASE RELIEF (EA. END)
DRAIN FITTING (EA. END)
Ø9.54
7.96
2.27
10.02
5.25 +.00 -.06
LEAD HOLE .75 N.P.T.
4.25
4.25
6.71
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 01:46:19 10/19/2022
TDR: 000001198704
MODEL NO. 37LYN527
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5T TEFC M WPD (IP55) W/FORSHEDA SLINGER EA END
37LYN527

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