BALDOR • RELIANCE

Customer information packet

VEDM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3738M, TEFC
Class - None
Division - Not Applicable

6/9/2025 4:40:07 AM

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	1800 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
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	9.500 A @ 460.0 V
	20.000 A @ 208.0 V
	19.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated

Part detail

Revision	J
Type	AC
Mech. spec.	37N865
Base	
Status	PRD/A
Elec. spec.	37WGR872
Layout	37LYN865
Eff. date	07-09-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-22-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.76 IN
Power Factor	80
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	1770 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	VEDM3710T								
SPEC.	37N865R872G1			**ENCL**	TEFC				
FRAME	213TC	**HP**	7.5						
VOLTS	230/460								
FLA	19/9.5			**I.P.**	56				
RPM	1770	**RPM MAX**	2700						
HZ	60	**PH**	3	**CLASS**	F				
SER.F.	1.15	**DES**	A	**CC**	010A				
NEMA-NOM-EFF	91.7								
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 # 55756
Typical performance - not guaranteed values

Winding: 37WGR872-R013	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	22.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			19/9.5	**Breakdown Torque**	70.9 LB-FT
R.P.M.			1770	**Pull-up Torque**	32.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	43 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	70.9 A
Service Factor (S.F.)			1.15	**No-load Current**	4.31 A
NEMA Nom. Eff.	91.7	**Power Factor**	80	**Line-line Res. @ 25ºC**	1.41 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	37.2
				Rotor inertia	0.934 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	83	84	82
Efficiency	87.1	91.6	92	92	91.1	89.8	91.5
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	4.83	6.02	7.6	9.5	11.6	13.9	10.8

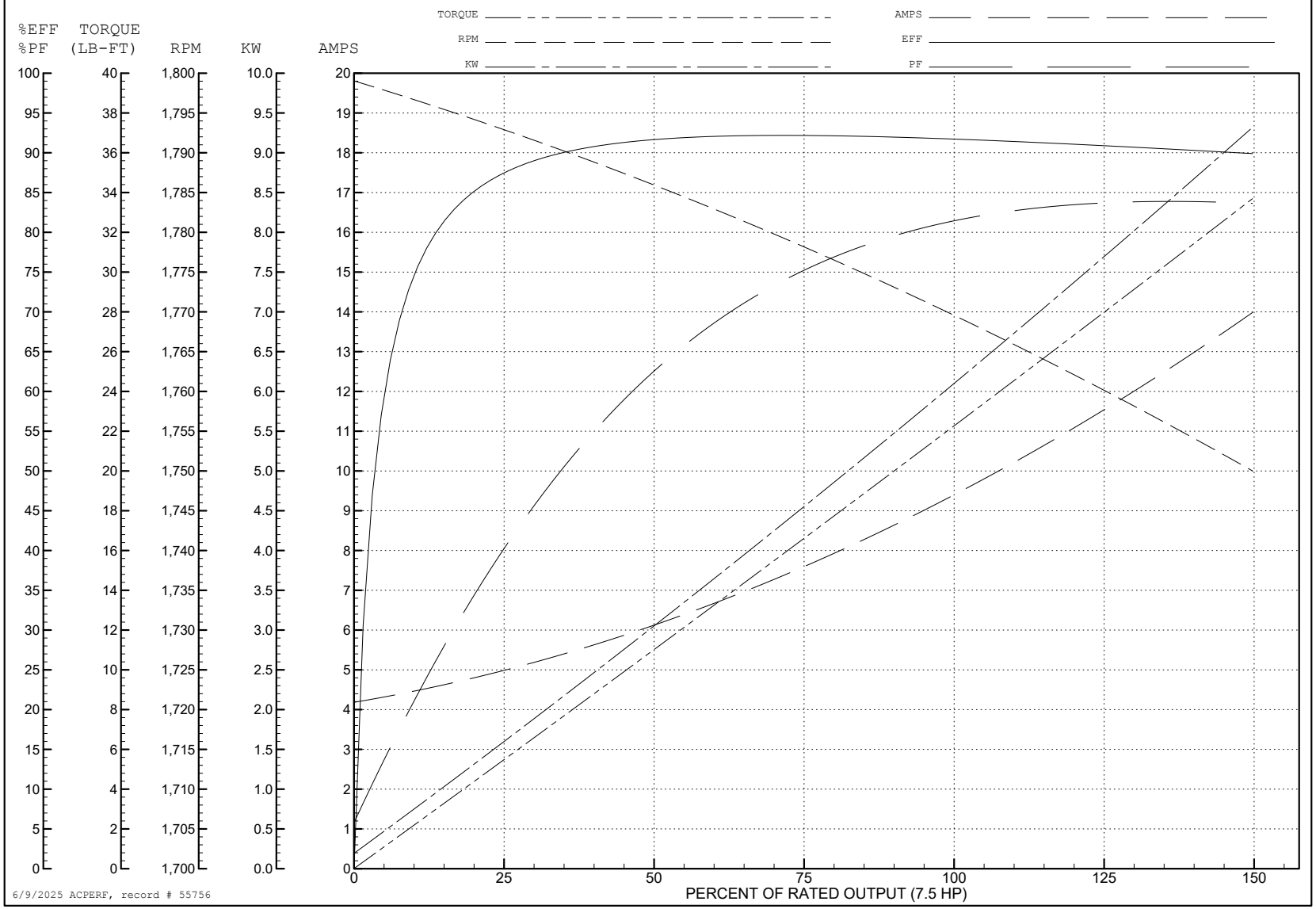
ABB Motors and Mechanical Inc.

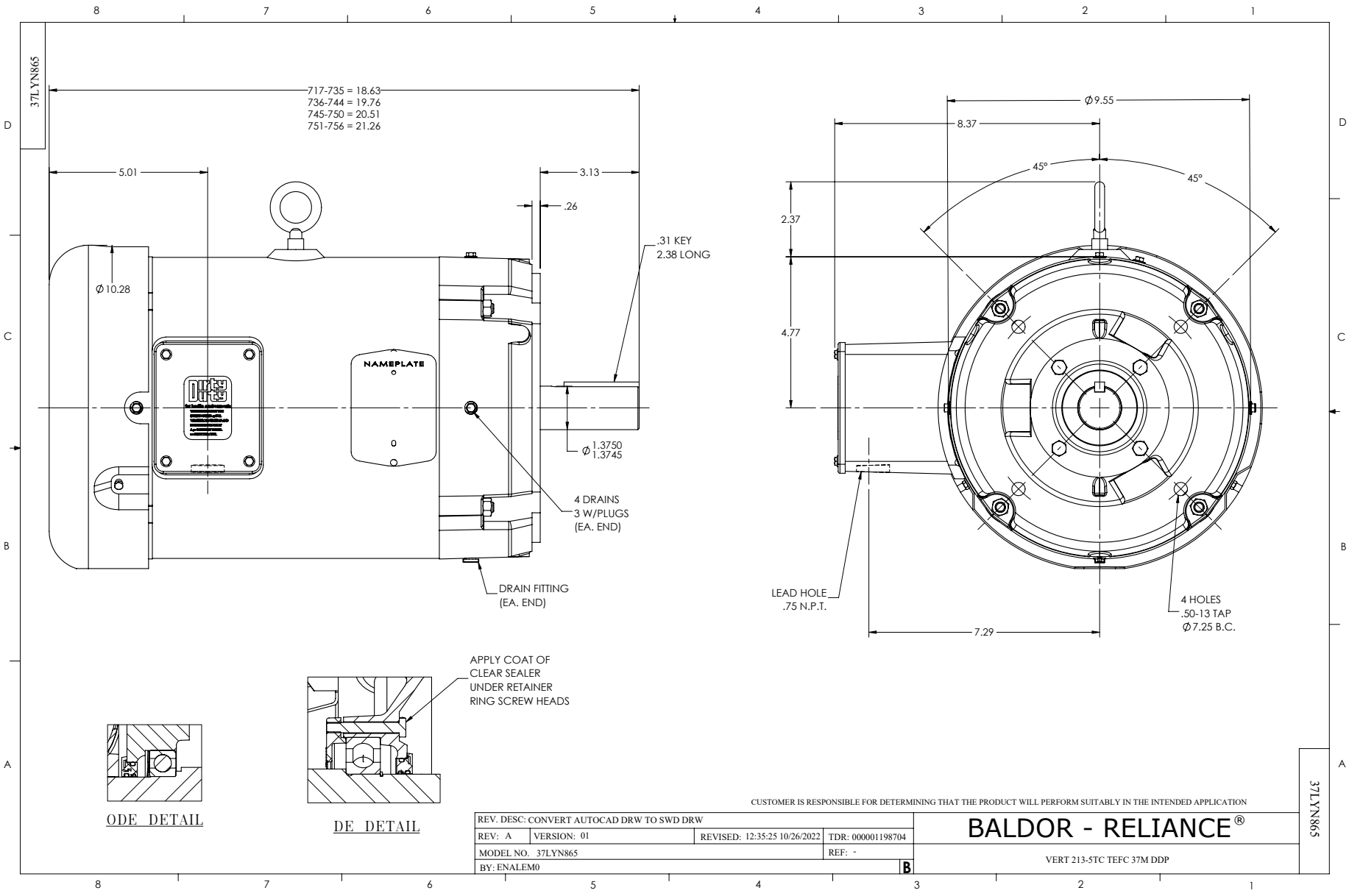
WINDING # 37WGR872

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

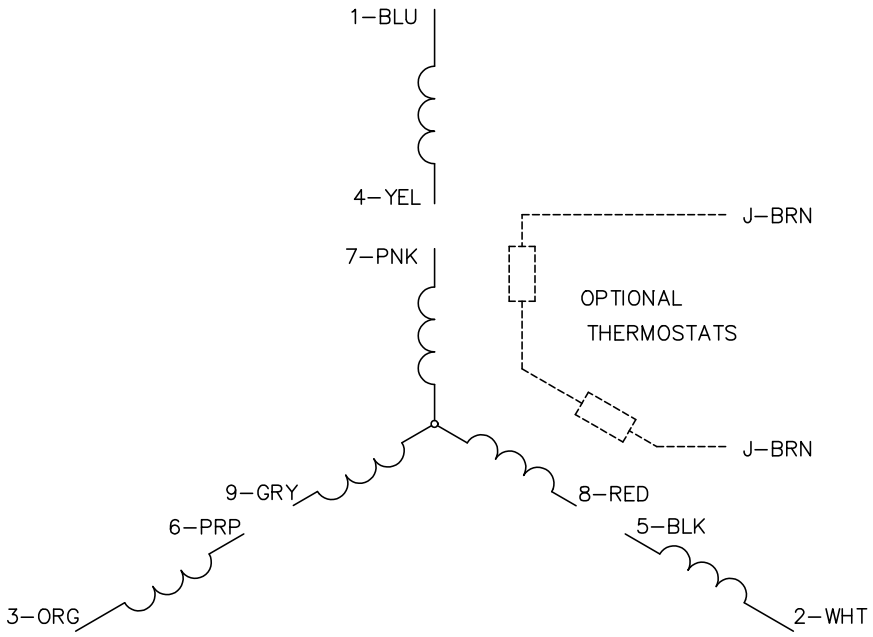
TORQUES(LB-FT): PO=70.9 PU=32.6 LR=43 LRA=70.9

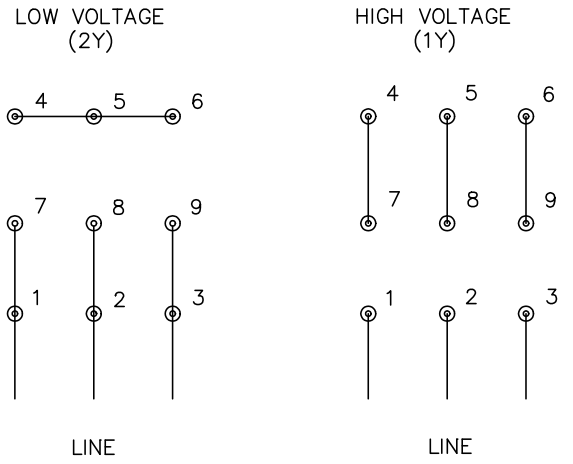
Typical performance - not guaranteed values.




37LYN865
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
Ø1.3745
4 DRAINS
3 W/PLUGS
(EA. END)
DRAIN FITTING
(EA. END)
Ø9.55
8.37
45°
45°
2.37
4.77
LEAD HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
Ø7.25 B.C.
7.29
APPLY COAT OF
CLEAR SEALER
UNDER RETAINER
RING SCREW HEADS
ODE DETAIL
DE 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: 12:35:25 10/26/2022
TDR: 000001198704
MODEL NO. 37LYN865
REF: -
BY: ENALEM0
B
BALDOR - RELICANCE®
VERT 213-5TC TEFC 37M DDP
37LYN865

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