ABB BALDOR RELIANCE

Customer information packet

ECTM3615T-G-AO

5 AIR OVERHP, 1755RPM, 3PH, 60HZ, 182T, 3642M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	182T
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	5.000 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	6.700 A @ 460.0 V
	14.000 A @ 208.0 V
	13.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	36R785
Base	
Status	PRD/A
Elec. spec.	36WGQ032
Layout	36LYR785
Eff. date	09-16-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-01-2022

Heater Indicator	Heater Included, 120 V
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.02 IN
Power Factor	78
Product Family	Chemical Process Features
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1755 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

NP2178									
CAT.NO.	ECTM3615T-G-AO								
SPEC.	36R785Q032G1								
HP	5 AIR OVER								
VOLTS	230/460								
AMP	13.4/6.7								
RPM	1755								
FRAME	182T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	78						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	TEAO	**SN**							
	INV DUT 20:1 VT								

AC Induction Motor Performance Data
Record # 92597
Typical performance - not guaranteed values

Winding: 36WGQ032-R004	**Type:** 3642M	**Enclosure:** TEAO

Nameplate Data			
Rated Output (HP)			5
Volts			230/460
Full Load Amps			13.4/6.7
R.P.M.			1755
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	89.5	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			15/7.5

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	15 LB-FT
Start Configuration	direct on line
Breakdown Torque	53.1 LB-FT
Pull-up Torque	23.4 LB-FT
Locked-rotor Torque	34.7 LB-FT
Starting Current	49.8 A
No-load Current	3.31 A
Line-line Res. @ 25ºC	2.4 Ω
Temp. Rise @ Rated Load	71°C
Temp. Rise @ S.F. Load	86°C
Locked-rotor Power Factor	40.7
Rotor inertia	0.391 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	60	72	79	82	84	81
Efficiency	83.8	88.9	89.8	89.5	88.4	86.8	88.8
Speed	1789	1778	1766	1753	1738	1722	1744
Line amperes	3.64	4.39	5.45	6.66	8.08	9.67	7.51

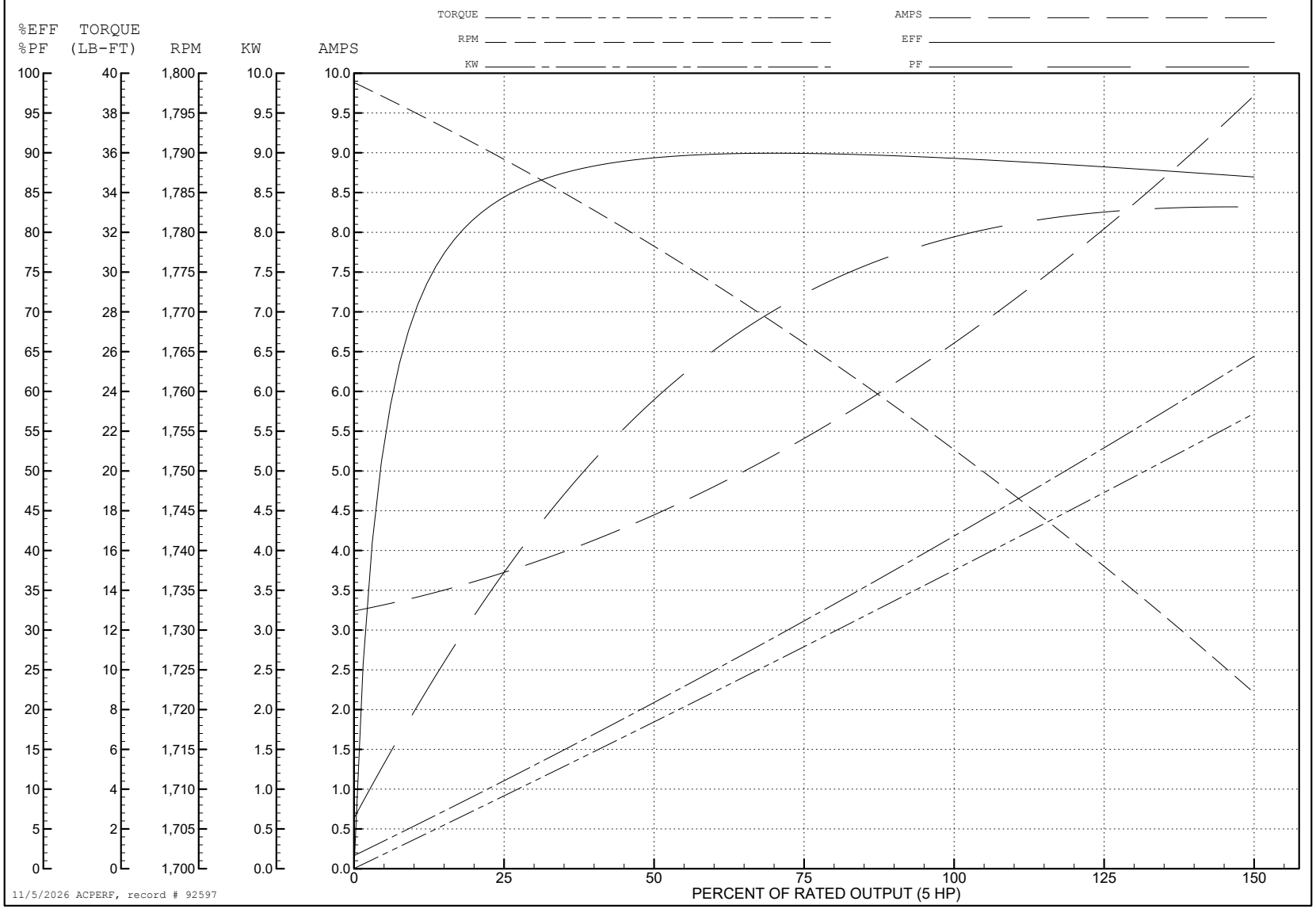
ABB Motors and Mechanical Inc.

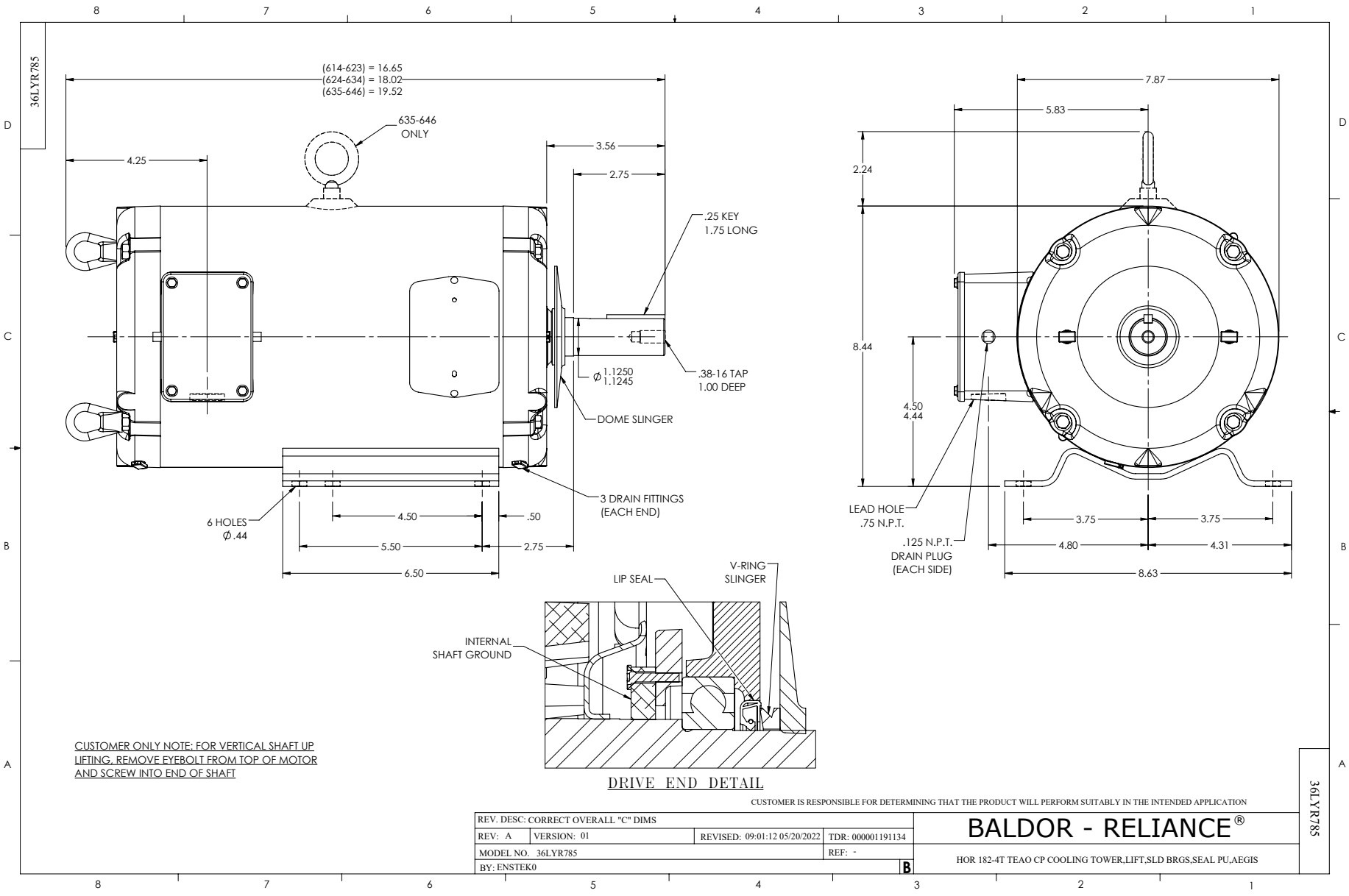
WINDING # 36WGQ032

5 HP 3 PH 60 HZ 1755 RPM 460 V 3642M

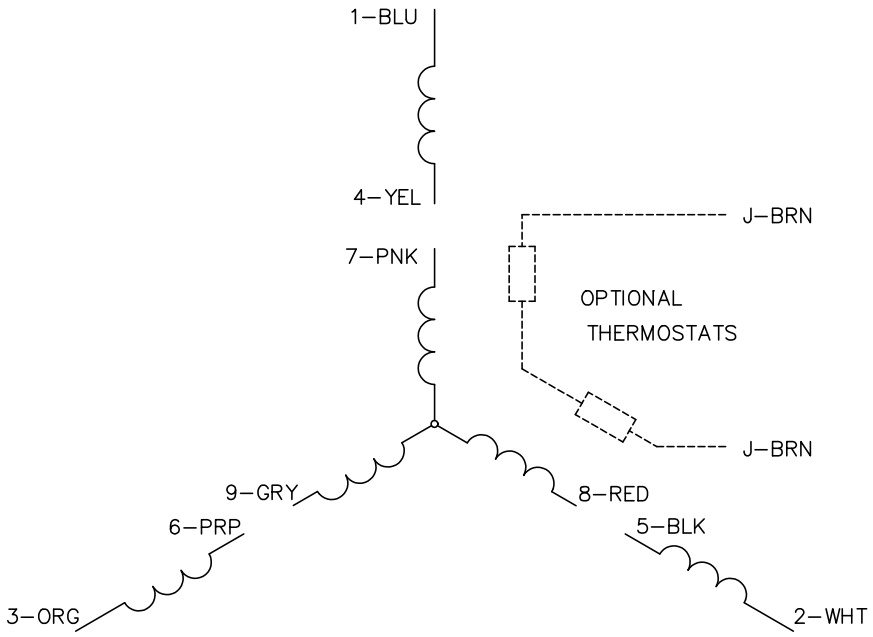
Typical performance - not guaranteed values.

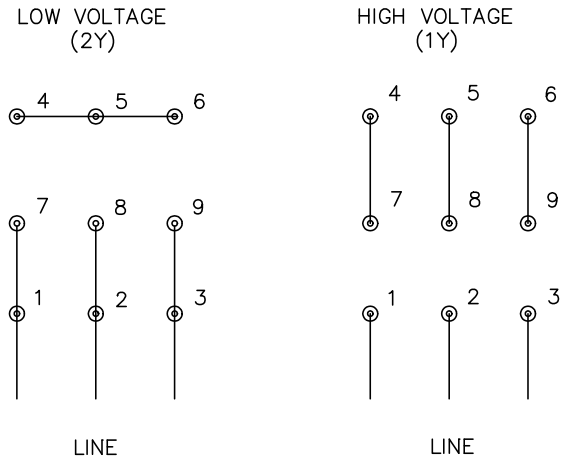
TORQUES(LB-FT): PO=53.1 PU=23.4 LR=34.7 LRA=49.8




36LYR785
(614-623) = 16.65
(624-634) = 18.02
(635-646) = 19.52
635-646 ONLY
4.25
3.56
2.75
.25 KEY
1.75 LONG
Ø 1.1250 1.1245
.38-16 TAP
1.00 DEEP
DOME SLINGER
3 DRAIN FITTINGS (EACH END)
6 HOLES Ø.44
4.50
.50
5.50
2.75
6.50
7.87
5.83
2.24
8.44
4.50
4.44
LEAD HOLE .75 N.P.T.
.125 N.P.T. DRAIN PLUG (EACH SIDE)
3.75
3.75
4.80
4.31
8.63
LIP SEAL
V-RING SLINGER
INTERNAL SHAFT GROUND
DRIVE END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT OVERALL "C" DIMS
REV: A VERSION: 01 REVISED: 09:01:12 05/20/2022 TDR: 000001191134
MODEL NO. 36LYR785 REF: -
BY: ENSTEK0 B
BALDOR - RELIANCE®
HOR 182-4T TEAO CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS
36LYR785

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