ABB BALDOR RELIANCE

Customer information packet

ECTM3665T

5 AIR OVERHP, 1750RPM, 3PH, 60HZ, 184T, 0642M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	184T
Frame Material	Iron
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	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 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	6.600 A @ 460.0 V
	14.000 A @ 208.0 V
	13.200 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 Face Code	Standard

Part Detail

Revision	H
Type	AC
Mech. spec.	06K700
Base	
Status	PRD/A
Elec. spec.	06WGX182
Layout	06LYK700
Eff. date	06-06-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-14-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.68 IN
Power Factor	79
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1750 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

NP2134								
CAT.NO.	ECTM3665T							
SPEC.	06K700X182G1							
HP	5 AIR OVER							
VOLTS	208-230/460							
AMP	14-13.2/6.6							
RPM	1750							
FRAME	184T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F	
NEMA-NOM-EFF	89.5	**PF**	79					
RATING	40C AMB-CONT							
CC								
DE	6206	**ODE**	6205					
ENCL	TEAO	**SN**						

AC Induction Motor Performance Data
Record # 35543
Typical performance - not guaranteed values

Winding: 06WGX182-R003	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5 AIR OVER	**Full Load Torque**	15 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			14-13.2/6.6	**Breakdown Torque**	53.9 LB-FT
R.P.M.			1750	**Pull-up Torque**	22.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31.8 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	46.6 A
Service Factor (S.F.)			1.15	**No-load Current**	3.02 A
NEMA Nom. Eff.	89.5	**Power Factor**	79	**Line-line Res. @ 25ºC**	2.63 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
				Locked-rotor Power Factor	40.5
				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	41	63	75	81	84	85	81
Efficiency	85.2	89.8	90.4	89.8	88.4	86.9	88.6
Speed	1789	1777	1765	1752	1737	1721	1739
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.52

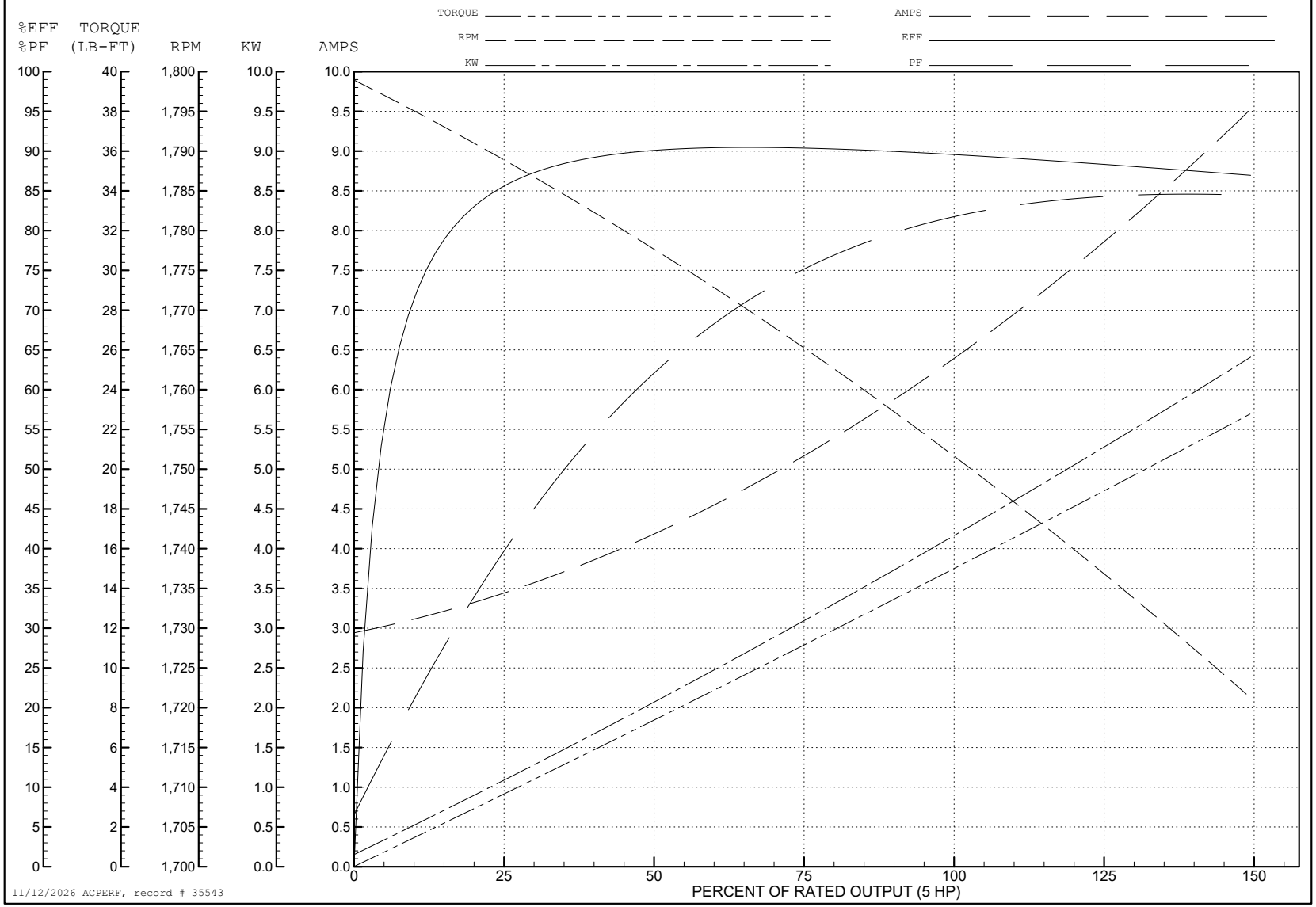
ABB Motors and Mechanical Inc.

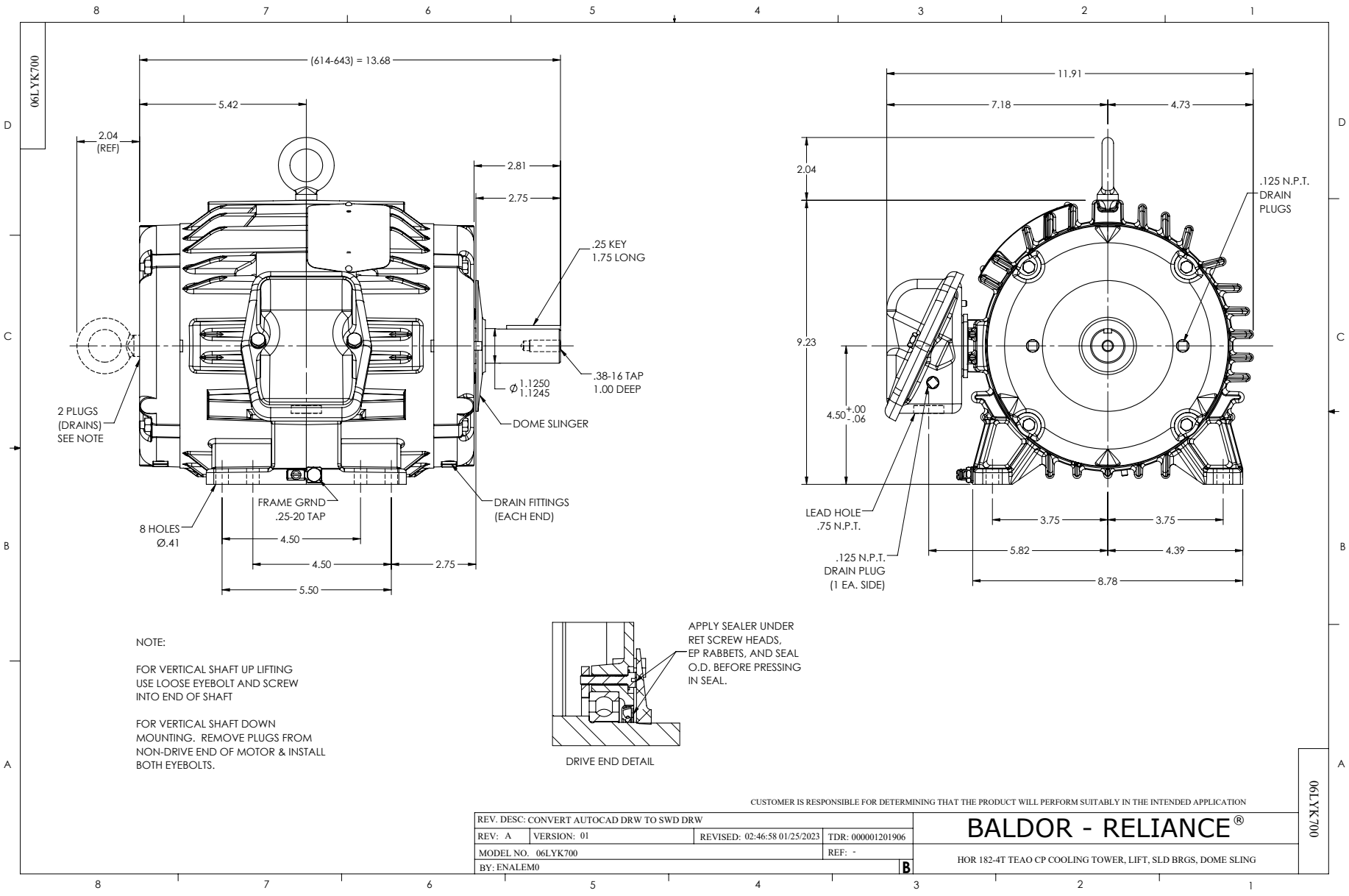
WINDING # 06WGX182

5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M

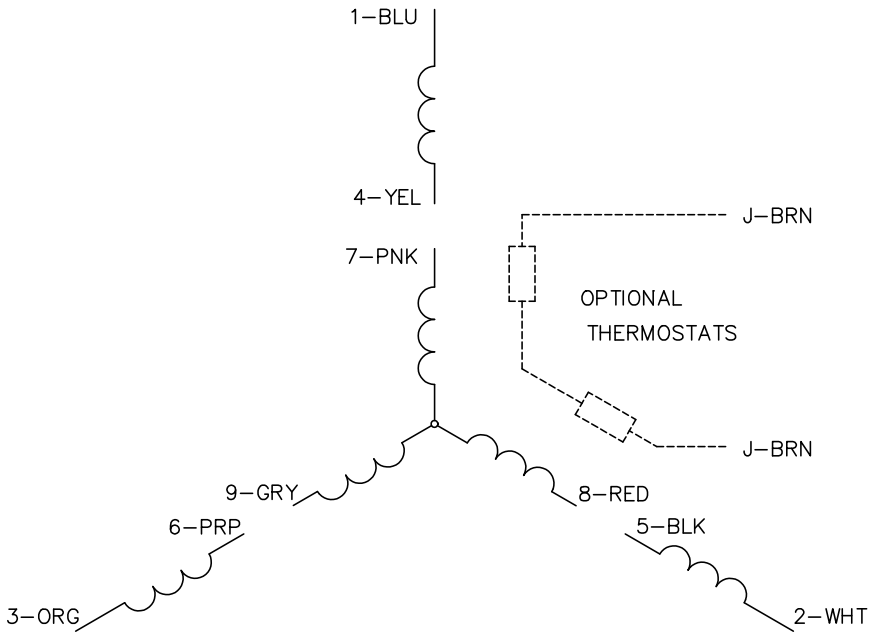
Typical performance - not guaranteed values.

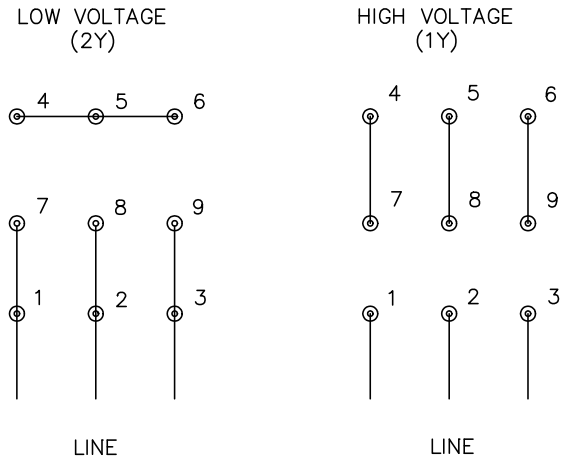
TORQUES(LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6




06LYK700
(614-643) = 13.68
5.42
2.04 (REF)
2.81
2.75
.25 KEY 1.75 LONG
.38-16 TAP 1.00 DEEP
Ø 1.1250 1.1245
DOME SLINGER
2 PLUGS (DRAINS) SEE NOTE
FRAME GRND .25-20 TAP
8 HOLES Ø.41
DRAIN FITTINGS (EACH END)
4.50
4.50
2.75
5.50
11.91
7.18
4.73
2.04
9.23
4.50 +.00 -.06
.125 N.P.T. DRAIN PLUGS
LEAD HOLE .75 N.P.T.
.125 N.P.T. DRAIN PLUG (1 EA. SIDE)
3.75
3.75
5.82
4.39
8.78
NOTE:
FOR VERTICAL SHAFT UP LIFTING USE LOOSE EYEBOLT AND SCREW INTO END OF SHAFT
FOR VERTICAL SHAFT DOWN MOUNTING. REMOVE PLUGS FROM NON-DRIVE END OF MOTOR & INSTALL BOTH EYEBOLTS.
APPLY SEALER UNDER RET SCREW HEADS, EP RABBETS, AND SEAL O.D. BEFORE PRESSING IN SEAL.
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: 02:46:58 01/25/2023 TDR: 000001201906
MODEL NO. 06LYK700 REF: -
BY: ENALEM0 B
BALDOR - RELIANCE®
HOR 182-4T TEAO CP COOLING TOWER, LIFT, SLD BRGS, DOME SLING
06LYK700

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