ABB BALDOR RELIANCE

Customer information packet

ECTM3665T-G-AO

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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	60 °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 Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	06J517
Base	
Status	PRD/A
Elec. spec.	06WGY544
Layout	06LYJ517
Eff. date	12-23-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-01-2022

Heater Indicator	Heater Included, 115 V
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 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	15.34 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 Ground Indicator	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

NP2178									
CAT.NO.	ECTM3665T-G-AO								
SPEC.	06J517Y544G1								
HP	5 AIR OVER								
VOLTS	230/460								
AMP	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	60C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	TEAO	**SN**							
	INV DUT 20:1 VT								

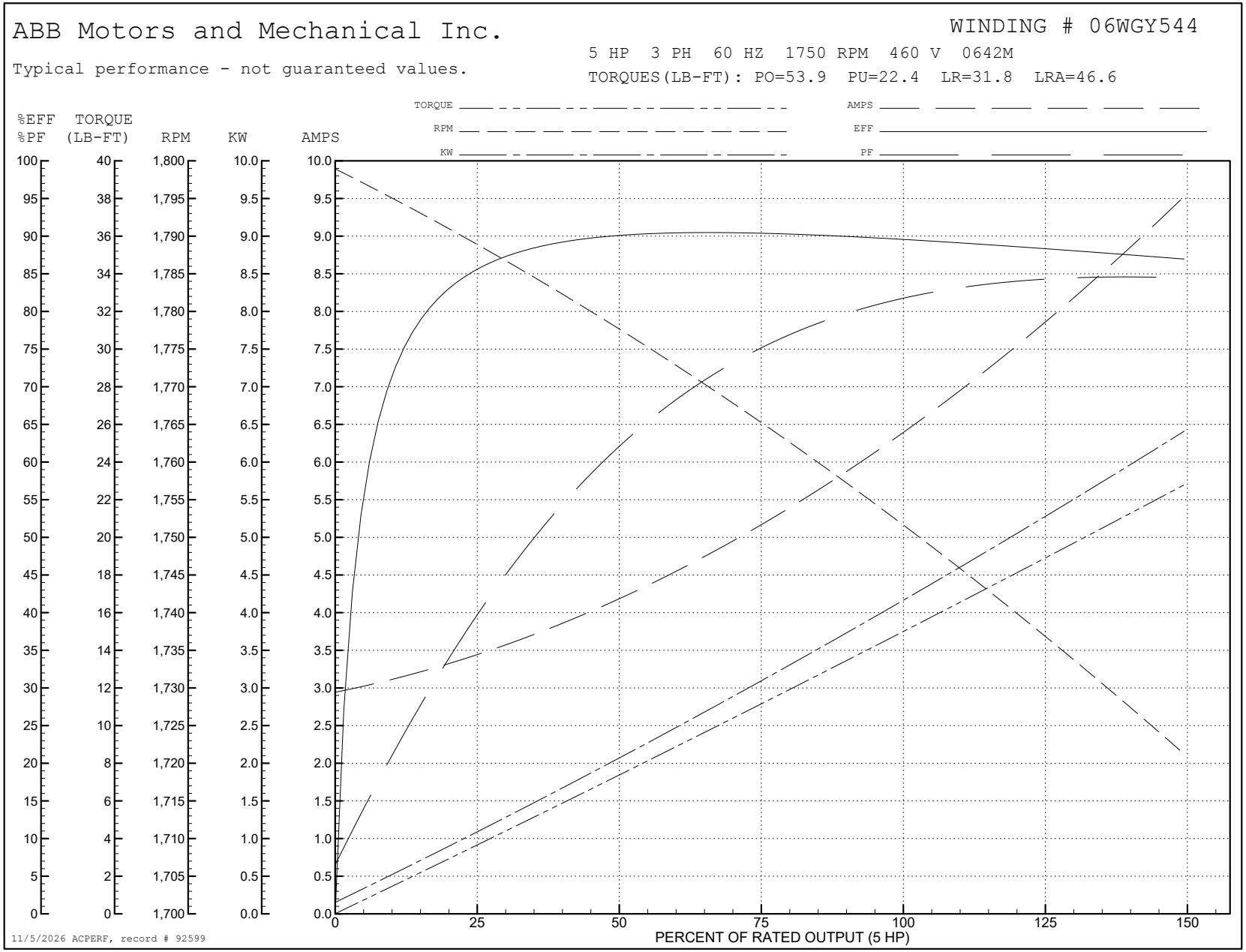
AC Induction Motor Performance Data
Record # 92599
Typical performance - not guaranteed values

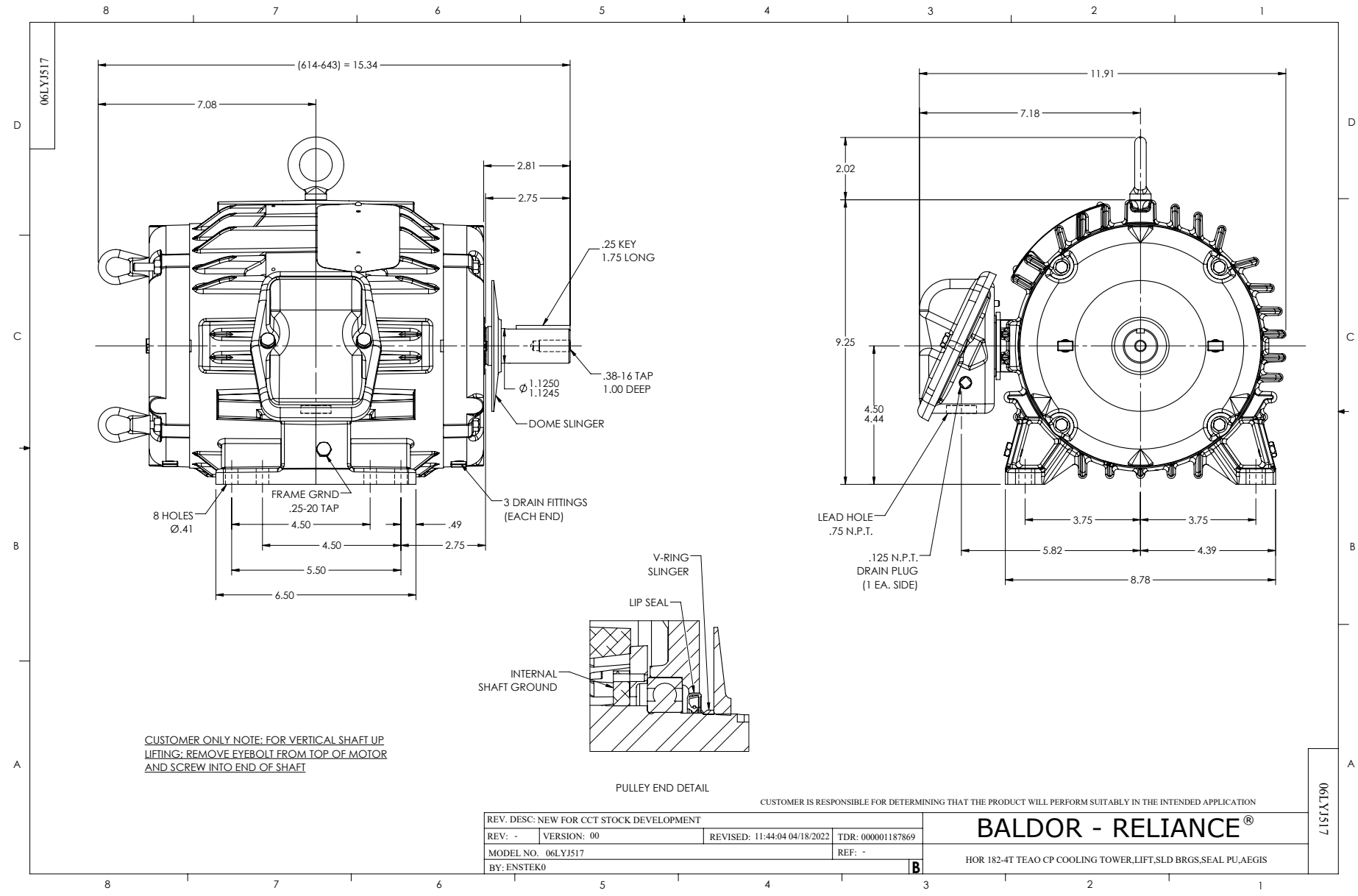
Winding: 06WGY544-R002	**Type:** 0642M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5 AIR OVER	**Full Load Torque**	15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			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			60C AMB-CONT	**Temp. Rise @ Rated Load**	53°C
S.F. Amps			14.6/7.3	**Temp. Rise @ S.F. Load**	66°C
				Locked-rotor Power Factor	40.5
				Rotor inertia	0.391 lb-ft²

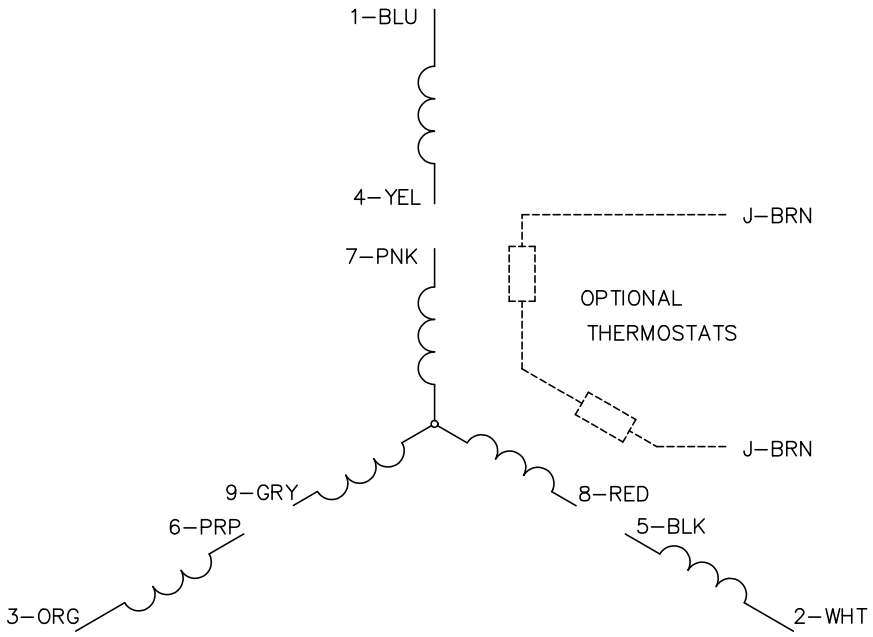
Load Characteristics 460 V, 60 Hz, 5 HP

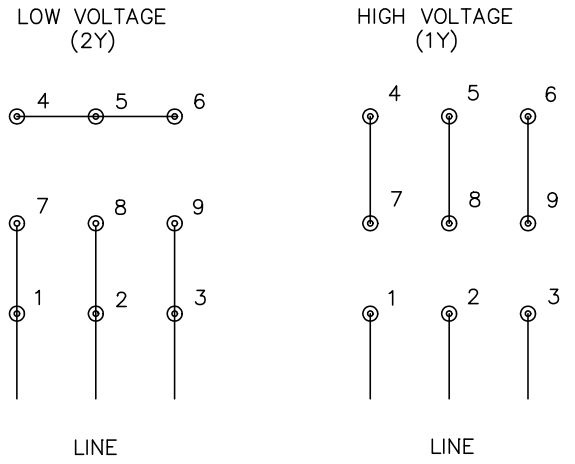
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	63	75	81	84	85	83
Efficiency	85.1	89.7	90.3	89.8	88.4	86.8	89
Speed	1789	1777	1765	1752	1737	1721	1743
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.33


ABB Motors and Mechanical Inc.
WINDING # 06WGY544
Typical performance - not guaranteed values.
5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M
TORQUES(LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/5/2026 ACPERF, record # 92599


06LYJ517
(614-643) = 15.34
7.08
2.81
2.75
.25 KEY
1.75 LONG
.38-16 TAP
1.00 DEEP
Ø 1.1250
1.1245
DOME SLINGER
FRAME GRND
.25-20 TAP
8 HOLES
Ø.41
4.50
.49
4.50
2.75
5.50
6.50
3 DRAIN FITTINGS
(EACH END)
11.91
7.18
2.02
9.25
4.50
4.44
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
V-RING
SLINGER
LIP SEAL
INTERNAL
SHAFT GROUND
PULLEY 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: NEW FOR CCT STOCK DEVELOPMENT
REV: - VERSION: 00 REVISED: 11:44:04 04/18/2022 TDR: 000001187869
MODEL NO. 06LYJ517 REF: -
BY: ENSTEK0 B
BALDOR - RELIANCE®
HOR 182-4T TEAO CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS
06LYJ517

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