ABB BALDOR RELIANCE

Customer information packet

ECTM3768T-G-AO

5 AIR OVERHP, 1160RPM, 3PH, 60HZ, 215T, 0746M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	215T
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	1200 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	7.400 A @ 460.0 V
	15.300 A @ 208.0 V
	14.800 A @ 230.0 V
Design Code	A
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	C
Type	AC
Mech. spec.	07D709
Base	
Status	PRD/A
Elec. spec.	07WGY763
Layout	07LYD709
Eff. date	09-08-2023
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-05-2022

Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0746M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.62 IN
Power Factor	71
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	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 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.	ECTM3768T-G-AO									
SPEC.	07D709Y763G1									
HP	5 AIR OVER									
VOLTS	230/460									
AMP	14.8/7.4									
RPM	1160									
FRAME	215T	**HZ**	60	**PH**	3					
SER.F.	1.15	**CODE**	K	**DES**	A	**CL**	F			
NEMA-NOM-EFF	89.5	**PF**	71							
RATING	40C AMB-CONT									
CC										
DE	6307	**ODE**	6206							
ENCL	TEAO	**SN**								
	INV DUT 20:1 VT									

AC Induction Motor Performance Data
Record # 92600
Typical performance - not guaranteed values

Winding: 07WGY763-R022	**Type:** 0746M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5 AIR OVER	**Full Load Torque**	22.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14.8/7.4	**Breakdown Torque**	81.3 LB-FT
R.P.M.			1160	**Pull-up Torque**	49.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	59.9 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	54.8 A
Service Factor (S.F.)			1.15	**No-load Current**	4.03 A
NEMA Nom. Eff.	89.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	1.64 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps			16.6/8.3	**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	22.2
				Rotor inertia	1.14 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	51	63	70	74	76	72
Efficiency	84.9	89.7	90.6	90.4	89.2	87.7	89.7
Speed	1190	1181	1174	1164	1153	1141	1157
Line amperes	4.32	5.06	6.12	7.48	8.92	10.5	8.34

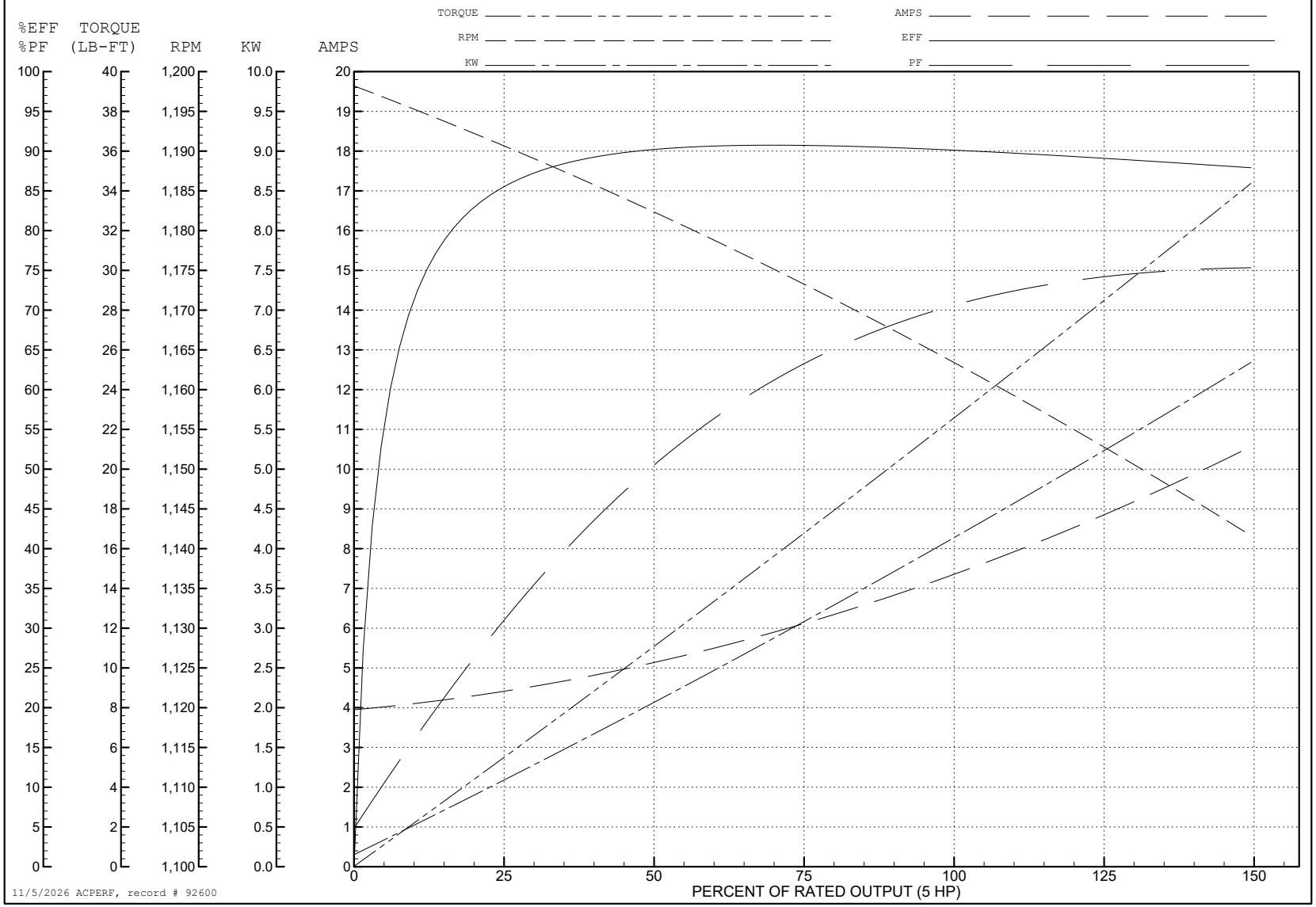
ABB Motors and Mechanical Inc.

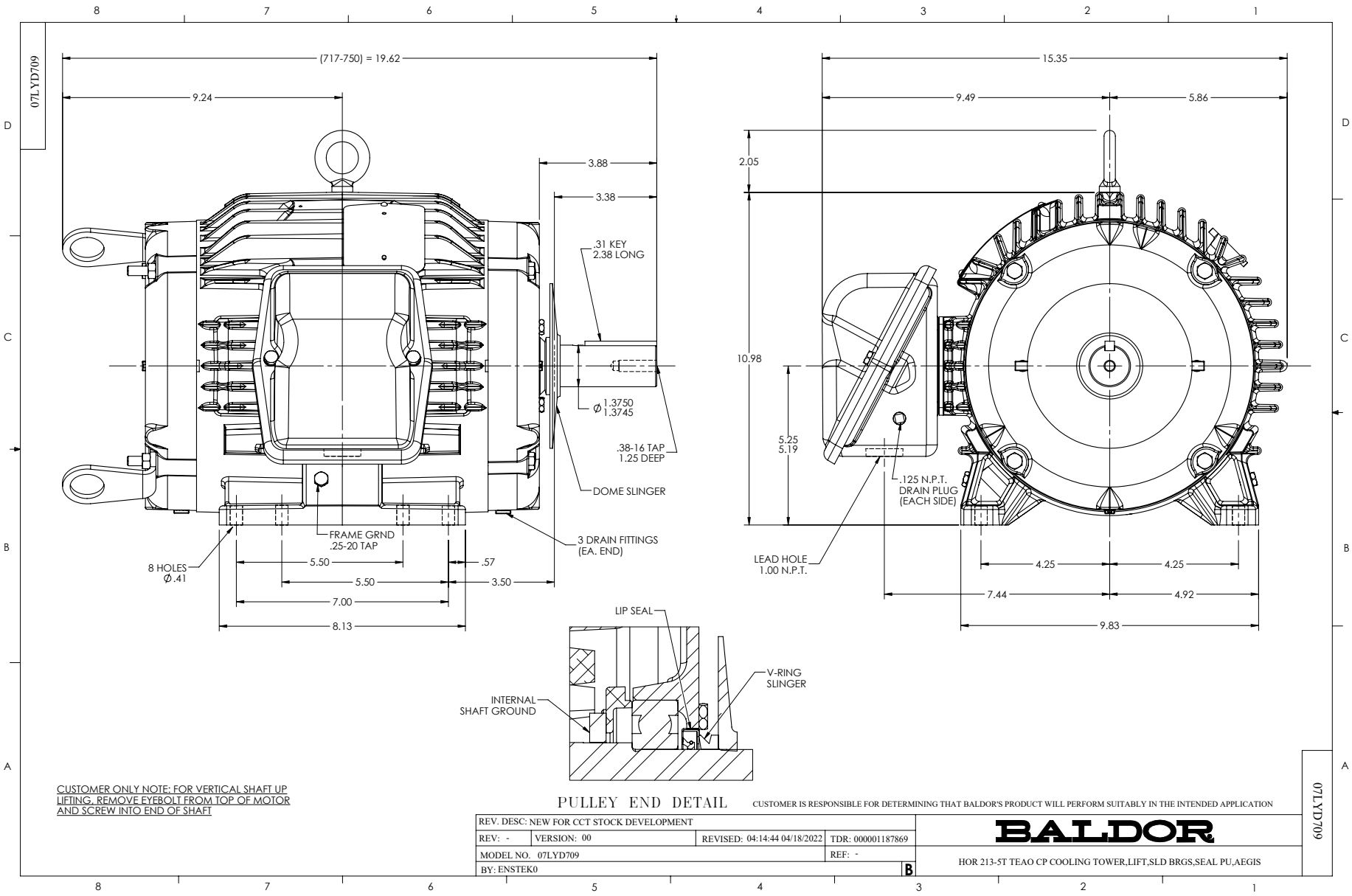
WINDING # 07WGY763

5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=81.3 PU=49.9 LR=59.9 LRA=54.8





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 BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

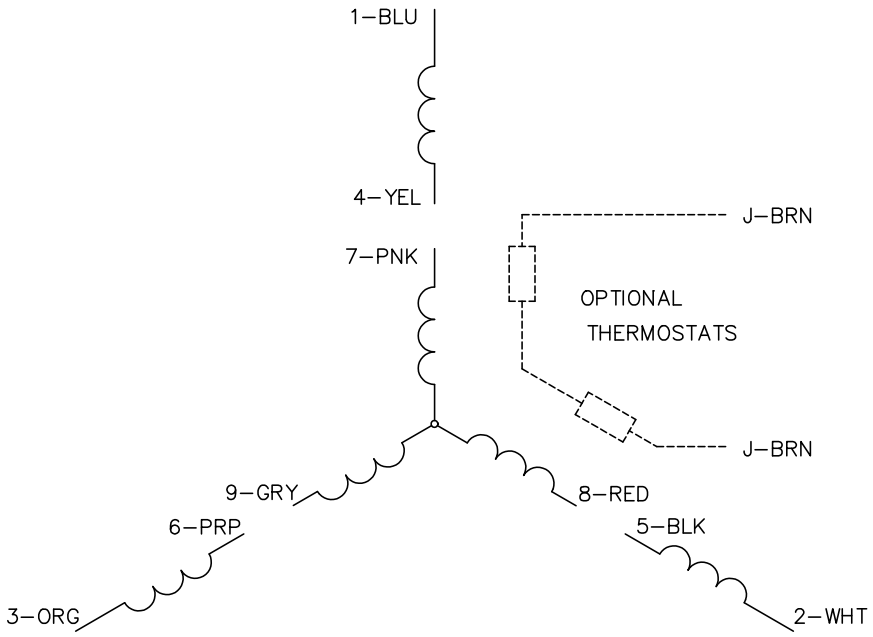
REV. DESC: NEW FOR CCT STOCK DEVELOPMENT			
REV: -	VERSION: 00	REVISED: 04:14:44 04/18/2022	TDR: 000001187869
MODEL NO. 07LYD709			REF: -
BY: ENSTEK0			B

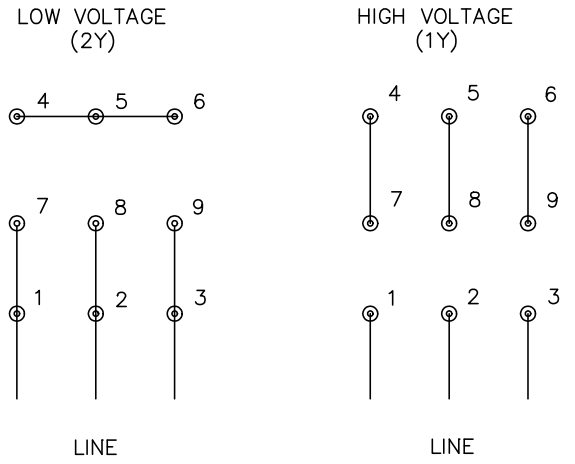
BALDOR

HOR 213-5T TEAO CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS

07LYD709

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