ABB BALDOR RELIANCE

Customer information packet

ECTM2334T-5G

20HP, 1770RPM, 3PH, 60HZ, 256T, 0960M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	19.200 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	Tapped & Key
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	19.2 a
Insulation Class	F

Part Detail

Revision	H
Type	AC
Mech. spec.	09N188
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LYN188
Eff. date	09-11-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	04-13-2022

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.55 IN
Power Factor	83
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1260									
CAT.NO.	ECTM2334T-5G								
SPEC.	09N188T507G1								
HP	20								
VOLTS	575								
AMP	19.2								
RPM	1770								
FRAME	256T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	A		**CL**	F	
NEMA-NOM-EFF	93	**PF**	83						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6208						
ENCL	TEFC	**SN**							
	INV DUTY 20:1 VT								

AC Induction Motor Performance Data
Record # 67979
Typical performance - not guaranteed values

Winding: 09WGT507-R001	**Type:** 0960M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	59.29 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			19.2	**Breakdown Torque**	231 LB-FT
R.P.M.			1770	**Pull-up Torque**	126 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	140 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	158 A
Service Factor (S.F.)			1.15	**No-load Current**	8.28 A
NEMA Nom. Eff.	93	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.499 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	69°C
				Locked-rotor Power Factor	26.5
				Rotor inertia	2.65 lb-ft²

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.5	93.1	92.4	93.3
Speed	1793	1786	1779	1772	1764	1755	1767
Line amperes	9.41	11.99	15.34	19.19	23.44	27.92	21.7

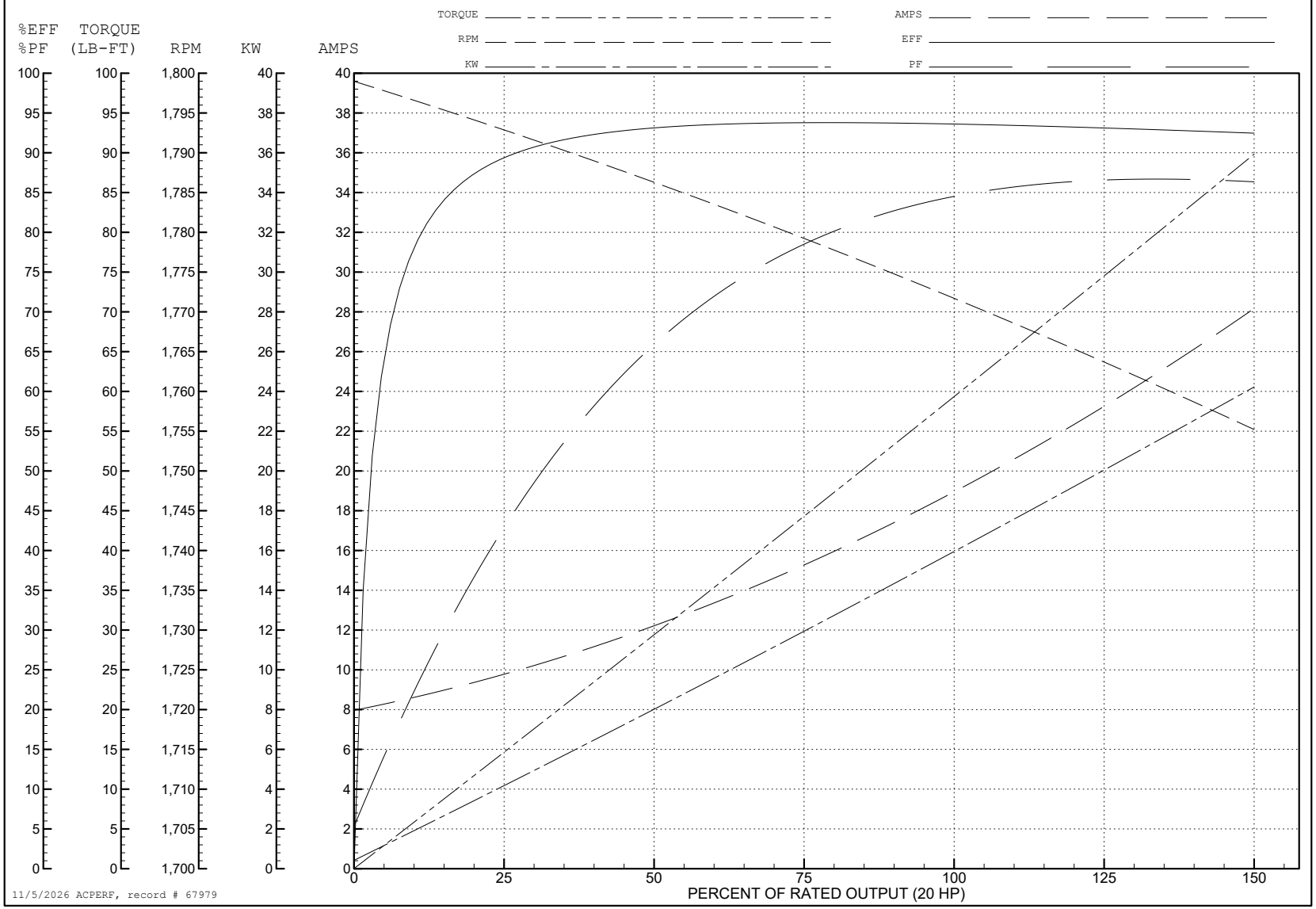
ABB Motors and Mechanical Inc.

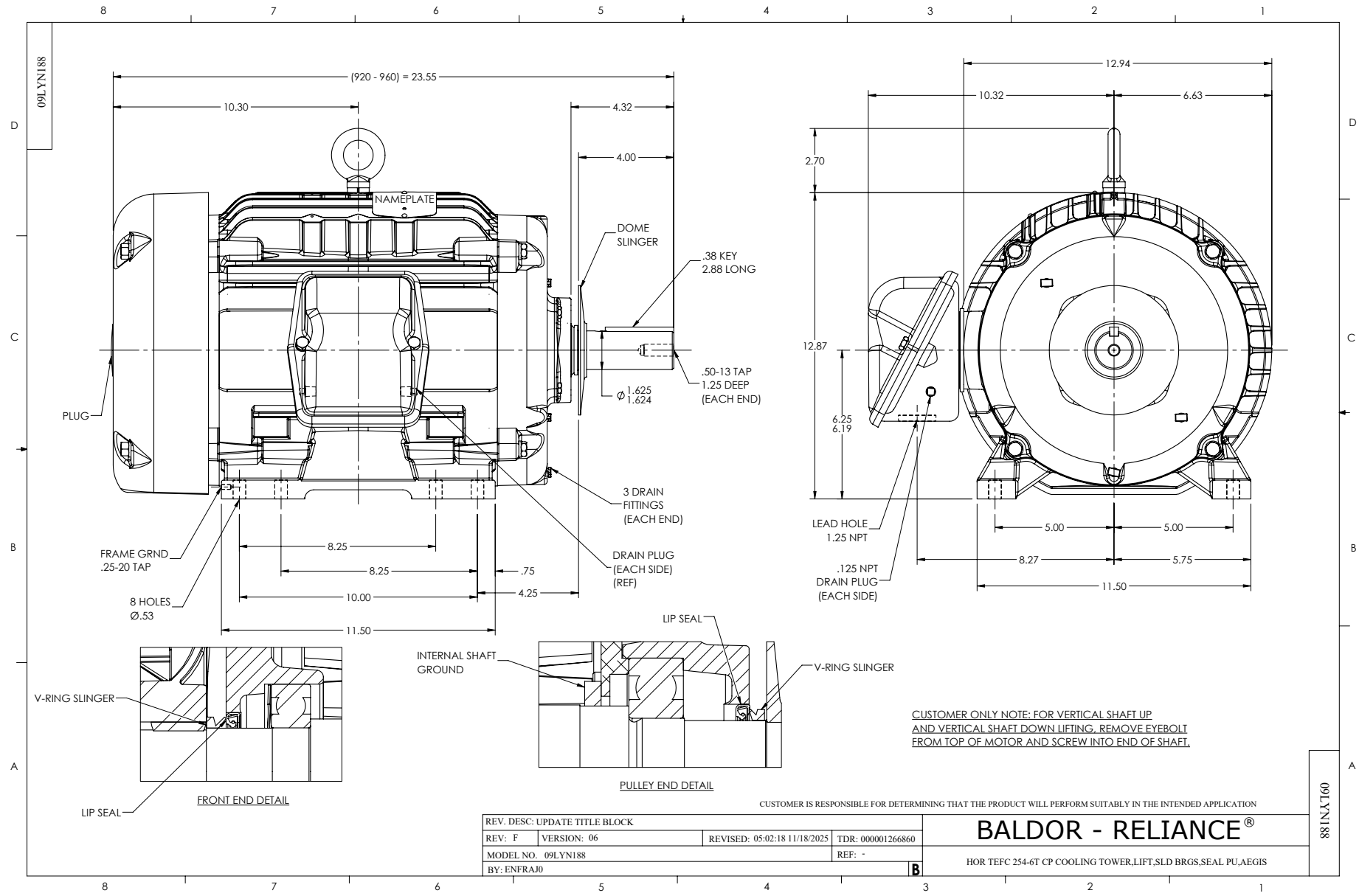
WINDING # 09WGT507

20 HP 3 PH 60 HZ 1770 RPM 575 V 0960M

Typical performance - not guaranteed values.

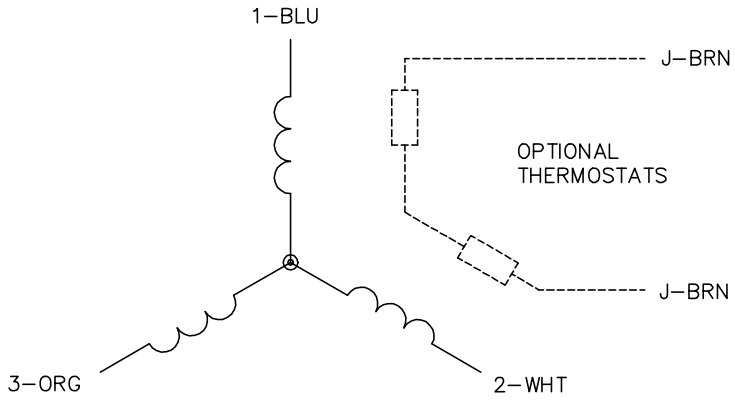
TORQUES(LB-FT): PO=231 PU=126 LR=140 LRA=158

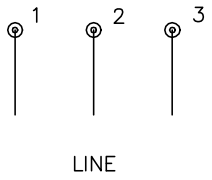



09LYN188
(920 - 960) = 23.55
10.30
4.32
4.00
NAMEPLATE
DOME SLINGER
.38 KEY
2.88 LONG
.50-13 TAP
1.25 DEEP
(EACH END)
Ø 1.625
1.624
PLUG
3 DRAIN
FITTINGS
(EACH END)
DRAIN PLUG
(EACH SIDE)
(REF)
FRAME GRND
.25-20 TAP
8 HOLES
Ø.53
8.25
8.25
.75
10.00
4.25
11.50
12.94
10.32
6.63
2.70
12.87
6.25
6.19
LEAD HOLE
1.25 NPT
.125 NPT
DRAIN PLUG
(EACH SIDE)
5.00
5.00
8.27
5.75
11.50
V-RING SLINGER
LIP SEAL
FRONT END DETAIL
INTERNAL SHAFT
GROUND
LIP SEAL
V-RING SLINGER
PULLEY END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP
AND VERTICAL SHAFT DOWN 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: UPDATE TITLE BLOCK
REV: F
VERSION: 06
REVISED: 05:02:18 11/18/2025
TDR: 000001266860
MODEL NO. 09LYN188
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR TEFC 254-6T CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS
881NAY160

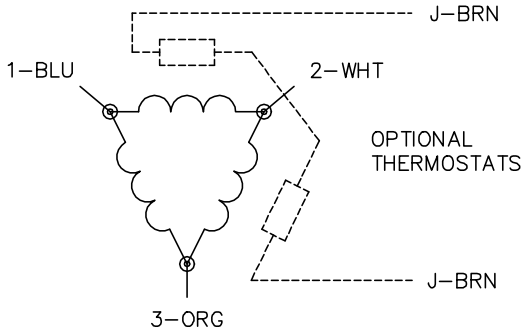
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1