ABB BALDOR RELIANCE

Customer information packet

CECR9204T

20HP, 1765RPM, 3PH, 60HZ, 256T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256TC
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CCSA US
	NEMA_PREMIUM
	NEMA PREMIUM
	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
Constant Torque Speed Range	6
Current @ Voltage	24.000 A @ 460.0 V
	48.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	N
Type	AC
Mech. spec.	09M408
Base	
Status	PRD/A
Elec. spec.	09WGT156
Layout	09LYM408
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	02-21-2019

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0962M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.28 IN
Power Factor	83
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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

NP3293

CAT.NO.	CECR9204T		**P/N**				**ENCLOSURE**	TEFC				
SPEC.	09M408T156G1	**CC**	010A	**FRAME**	256TC		**S/N**					
HP	20	**CLASS**	F	**HZ**	60	**DES**	A					
RPM	1765	**RPM MAX**	2700	**PH**	3	**KVA-CODE**	G					
VOLT	230/460			**I.P.**	55							
AMP	48/24		**SER.F.**	1.25	**PF**	83	**ODE BRG**	6309	**DE BRG**	6311		
RATING	40C AMB-CONT		**NEMA-NOM-EFF**	93	**GREASE**	POLYREX EM						
HTR-VOLTS	**HTR-AMPS**		**HTR-WATTS**		**INV.TYPE**							
	SFA 60/30											
			C HP FR	60	**C HP TO**	90						
			CT HZ FROM	6	**CT HZ TO**	60						
			MOTOR WEIGHT	325	**VT HZ FROM**	6	**VT HZ TO**	60				

AC Induction Motor Performance Data
Record # 49624
Typical performance - not guaranteed values

Winding: 09WGT156-R001	**Type:** 0962M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	59.7 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			48/24	**Breakdown Torque**	173 LB-FT
R.P.M.			1765	**Pull-up Torque**	120 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	152 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	149 A
Service Factor (S.F.)			1.25	**No-load Current**	8.82 A
NEMA Nom. Eff.	93	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.40887 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps			60/30	**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	37

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	71	80	83	85	84	84
Efficiency	91.3	93.7	93.8	93.1	92	90.6	92.4
Speed	1791.3	1783.1	1774.9	1764.6	1753.7	1740.2	1758
Line amperes	10.4	14.2	18.8	24.2	30.1	36.8	27.7

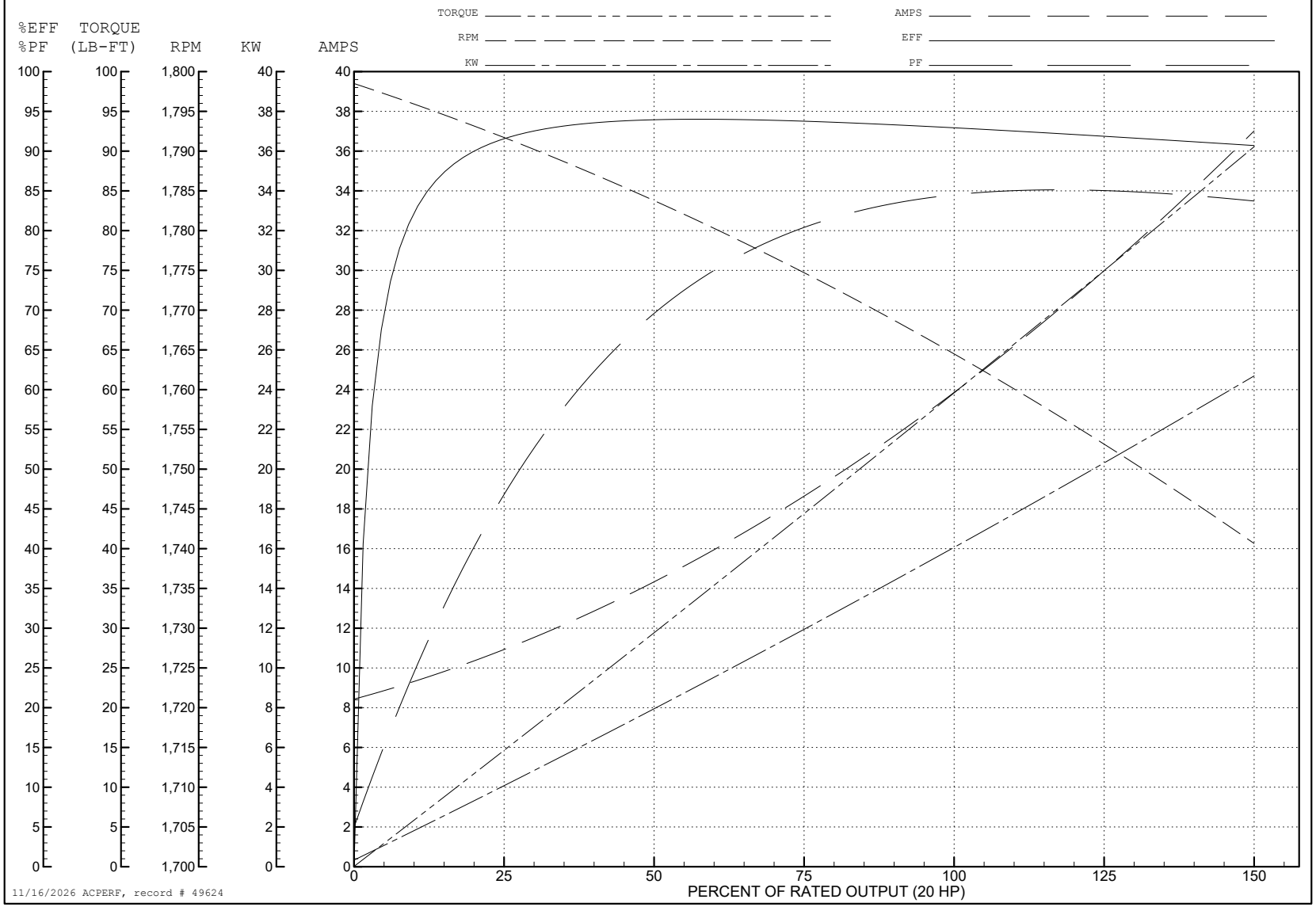
ABB Motors and Mechanical Inc.

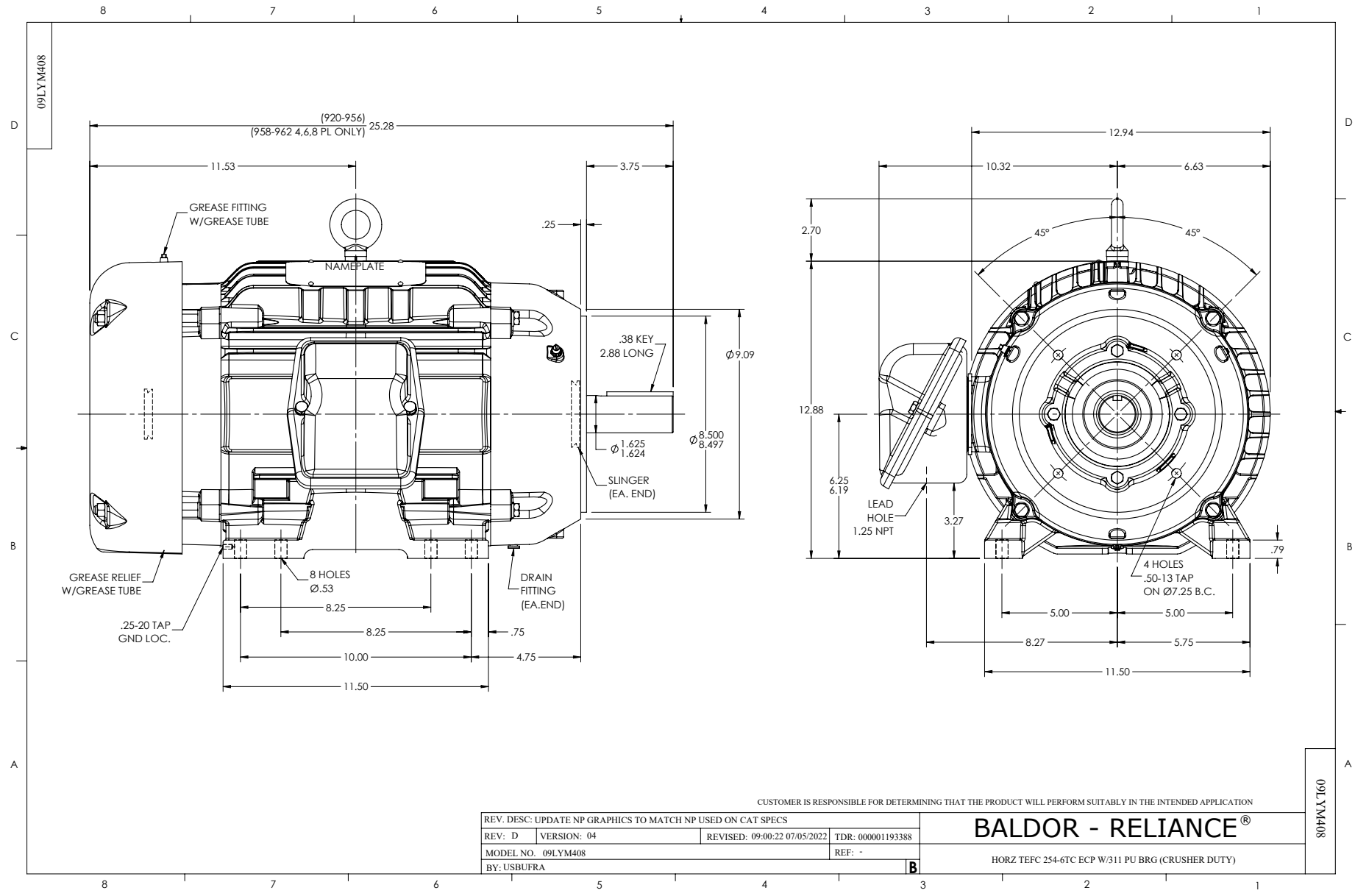
WINDING # 09WGT156

20 HP 3 PH 60 HZ 1765 RPM 460 V 0962M

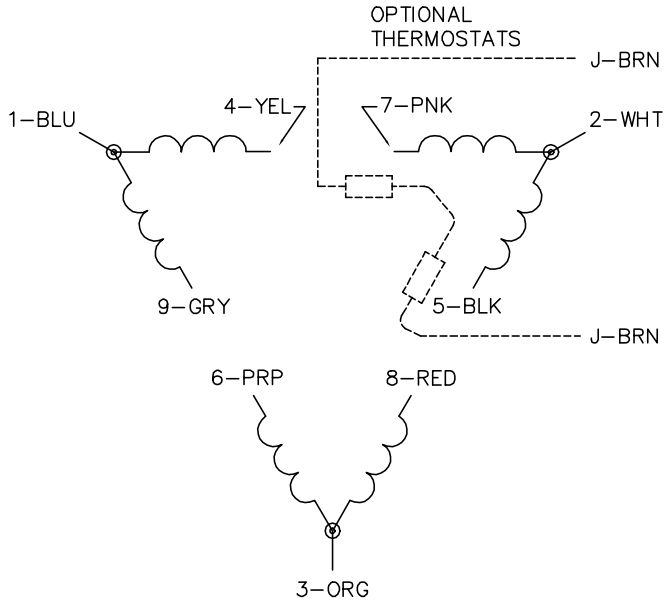
Typical performance - not guaranteed values.

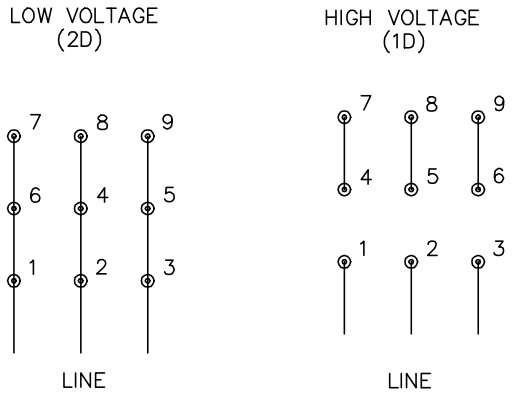
TORQUES(LB-FT): PO=173 PU=120 LR=152 LRA=149




09LYM408
(920-956)
(958-962 4,6,8 PL ONLY) 25.28
11.53
3.75
.25
GREASE FITTING
W/GREASE TUBE
NAMEPLATE
.38 KEY
2.88 LONG
Ø9.09
Ø1.625
1.624
Ø8.500
8.497
SLINGER
(EA. END)
GREASE RELIEF
W/GREASE TUBE
8 HOLES
Ø.53
DRAIN
FITTING
(EA.END)
.25-20 TAP
GND LOC.
8.25
8.25
.75
10.00
4.75
11.50
12.94
10.32
6.63
2.70
45°
45°
12.88
6.25
6.19
LEAD
HOLE
1.25 NPT
3.27
.79
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
5.00
5.00
8.27
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: D
VERSION: 04
REVISED: 09:00:22 07/05/2022
TDR: 000001193388
MODEL NO. 09LYM408
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC ECP W/311 PU BRG (CRUSHER DUTY)
09LYM408

CD0180





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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1