ABB BALDOR RELIANCE

Customer information packet

CEWDM2401T

7.5HP, 880RPM, 3PH, 60HZ, 256TC, 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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	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	24.200 A @ 230.0 V
	12.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT403
Layout	09LYG221
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	08
Leads	9#12
Proprietary	False
Created date	08-13-2019

High Voltage Full Load Amps	12.1 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1350 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	23.57 IN
Power Factor	67
Product Family	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	880 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

	NP1669L							
CAT.NO.	CEWDM2401T							
SPEC.	09-0000-1710							
HP	7.5							
VOLTS	230/460 10:1CT/VT							
AMP	24.2/12.1							
RPM	880							
FRAME	256TC	**HZ**	60			**PH**	3	
SER.F.	1.00	**CODE**	J	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	86.5	**PF**	67					
RATING	40C AMB-CONT							
CC	010A							
DE	6309	**ODE**	6208					
ENCL	TEFC	**SN**						
BLANK	1.15SF ON SINEWAVE							

AC Induction Motor Performance Data
Record # 78169
Typical performance - not guaranteed values

Winding: 09WGT403-R007	**Type:** 0960M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	44.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			24.2/12.1	**Breakdown Torque**	105 LB-FT
R.P.M.			880	**Pull-up Torque**	58 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	95.1 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	68.6 A
Service Factor (S.F.)			1	**No-load Current**	6.76 A
NEMA Nom. Eff.	86.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	1.246 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
				Locked-rotor Power Factor	27.9

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	30	49	60	67	70	72
Efficiency	80.8	86.8	87.4	86.6	85	82.9
Speed	896.4	892	887.4	882.3	875.8	868.3
Line amperes	7.16	8.42	10.1	12.1	14.7	17.6

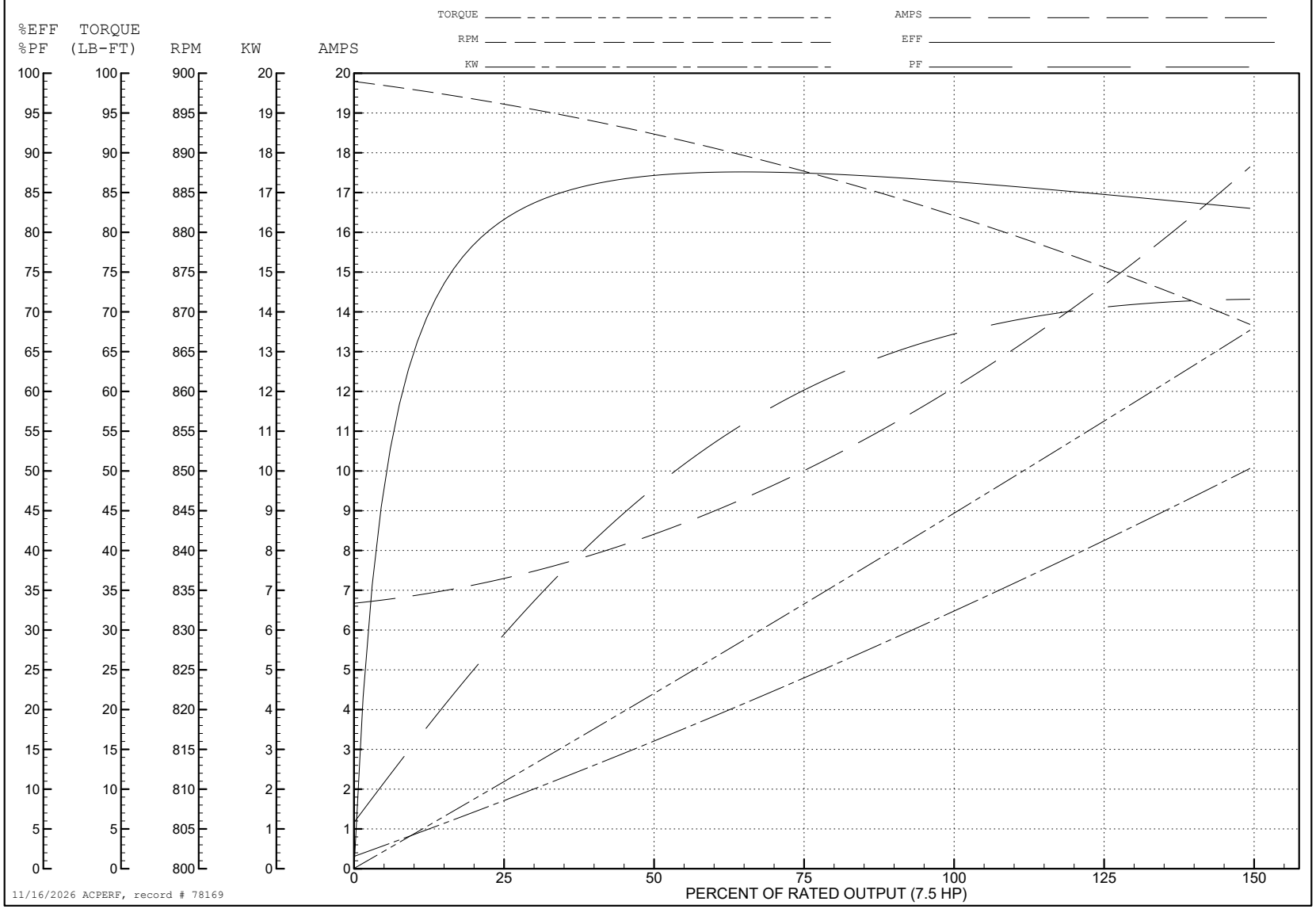
ABB Motors and Mechanical Inc.

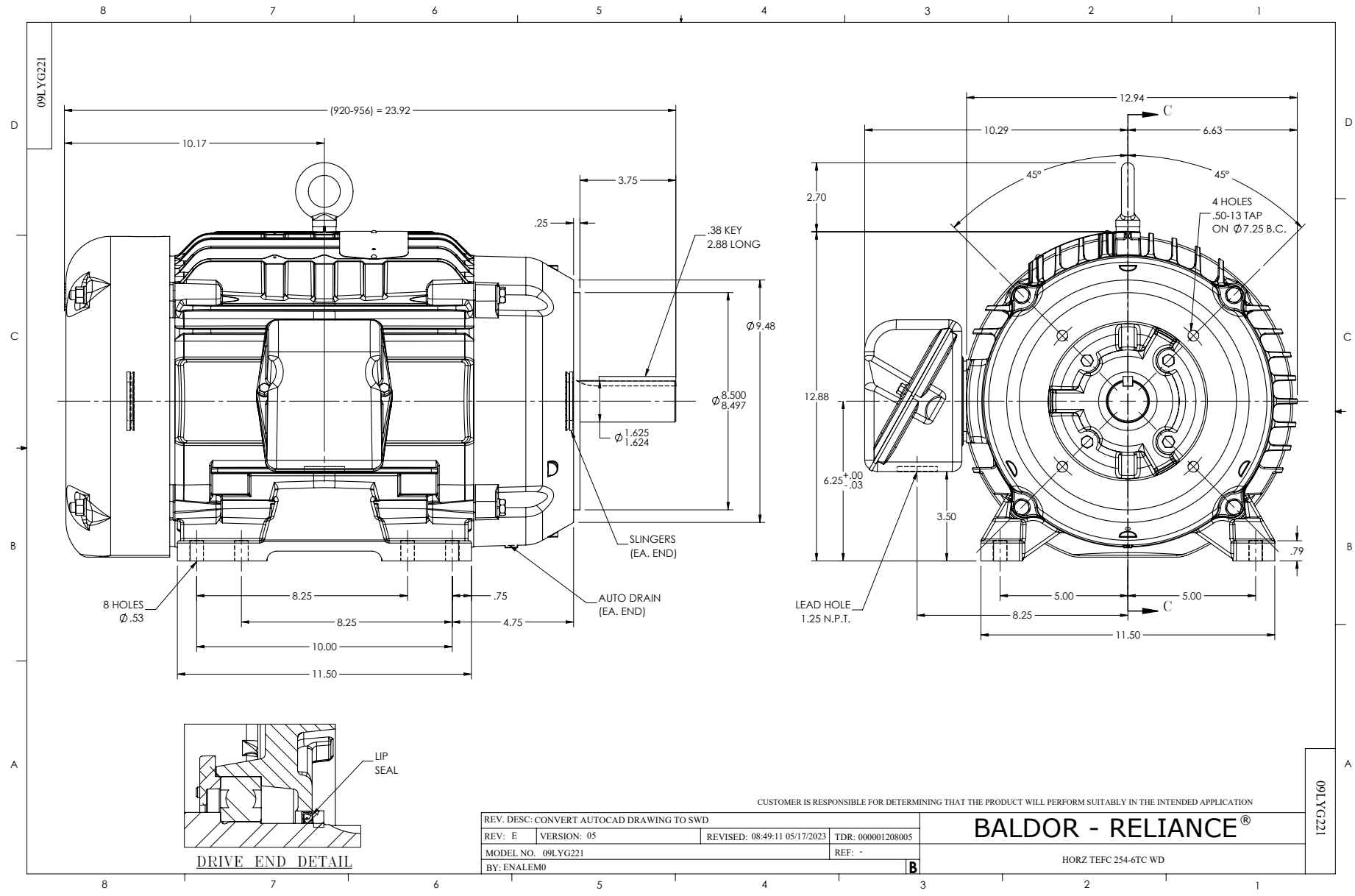
WINDING # 09WGT403

7.5 HP 3 PH 60 HZ 880 RPM 460 V 0960M

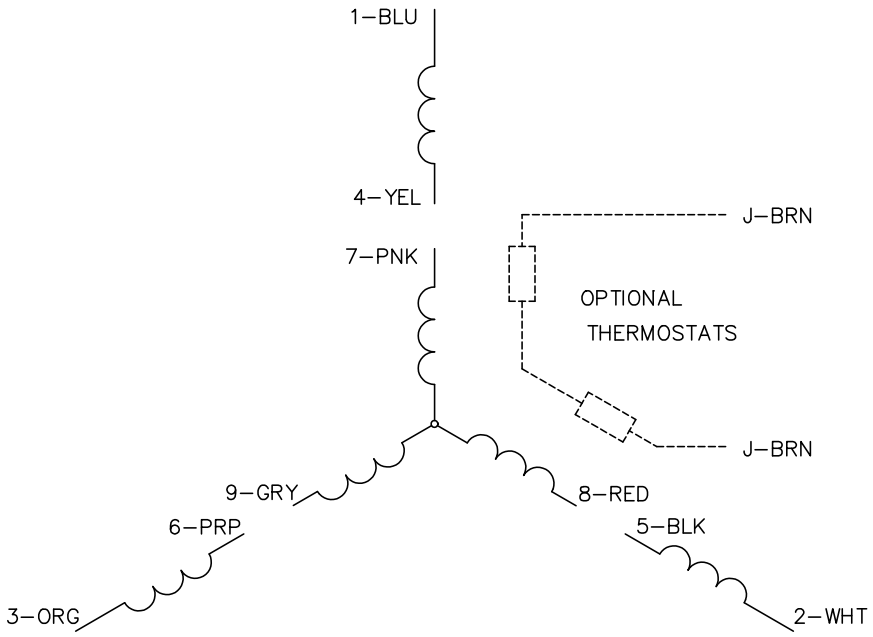
Typical performance - not guaranteed values.

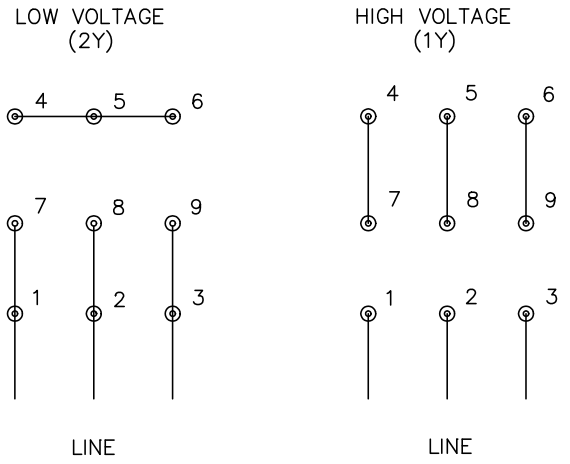
TORQUES(LB-FT): PO=105 PU=58 LR=95.1 LRA=68.6




09LYG221
(920-956) = 23.92
10.17
3.75
.25
.38 KEY
2.88 LONG
Ø9.48
Ø8.500
8.497
Ø1.625
1.624
SLINGERS
(EA. END)
AUTO DRAIN
(EA. END)
8 HOLES
Ø.53
8.25
.75
8.25
4.75
10.00
11.50
12.94
10.29
6.63
45°
45°
2.70
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
12.88
6.25 +.00 -.03
3.50
.79
LEAD HOLE
1.25 N.P.T.
5.00
5.00
8.25
11.50
LIP
SEAL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: E
VERSION: 05
REVISED: 08:49:11 05/17/2023
TDR: 000001208005
MODEL NO. 09LYG221
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC WD
09LYG221

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