ABB BALDOR RELIANCE

Customer information packet

CECP82276T-4

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	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
Constant Torque Speed Range	1
Current @ Voltage	10.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ222
Layout	09LY-000-401
Eff. date	11-14-2023
CD Diagram	CD0006
Poles	06
Leads	3#12
Proprietary	False
Created date	01-27-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	10.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.28 IN
Power Factor	71
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP4332															
CAT.NO.	CECP82276T-4			**P/N**						**ENCLOSURE**	TEFC				
SPEC.	09-0000-0975		**CC**	010A	**FRAME**	254TC		**S/N**							
HP	7.5			**CLASS**	F	**HZ**	60	**ODE BRG**	6309	**DE BRG**	6309				
RPM	1180	**RPM MAX**	1800	**PH**	3	**DES**	B	**D.E. BRG.**	45BC03X30X						
VOLT	460			**KVA-CODE**	H			**O.D.E. BRG.**	45BC03X30X						
AMP	10.5			**MOTOR WEIGHT**	346	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT			**MAX. KVAR**	4	**BLANK**									
NEMA-NOM-EFF	91	**# OF ROTOR BARS**	27	**SER.F.**	1.15	**IP**	56								
G.MIN.EFF	89.5	**# OF STATOR SLOTS**	36	**PF**	71	**INV.TYPE**	PWM								
TEMP CODE	T3C	**INVERTER-TEMP-CODE**	180												
TEMP =	160	**C HP FR**	60	**C HP TO**	90										
CT HZ FROM	1	**CT HZ TO**	60												
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**		**MAX. SPACE HEATER TEMP.**		**VT HZ FROM**	O	**VT HZ TO**	60				

AC Induction Motor Performance Data
Record # 47082
Typical performance - not guaranteed values

Winding: 09WGZ222-R018	**Type:** 0954M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	32.4 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			10.5	**Breakdown Torque**	92 LB-FT
R.P.M.			1180	**Pull-up Torque**	36.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	64.6 A
Service Factor (S.F.)			1.15	**No-load Current**	5.39 A
NEMA Nom. Eff.	91	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.953 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
S.F. Amps				**Temp. Rise @ S.F. Load**	38°C
				Locked-rotor Power Factor	25.7
				Rotor inertia	4.34 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	54	65	71	74	75	73
Efficiency	83.5	90.2	91.2	91.3	91.8	90.8	91.8
Speed	1196	1191	1188	1180	1177	1171	1179
Line amperes	5.92	7.13	8.57	10.5	12.7	15.6	11.8

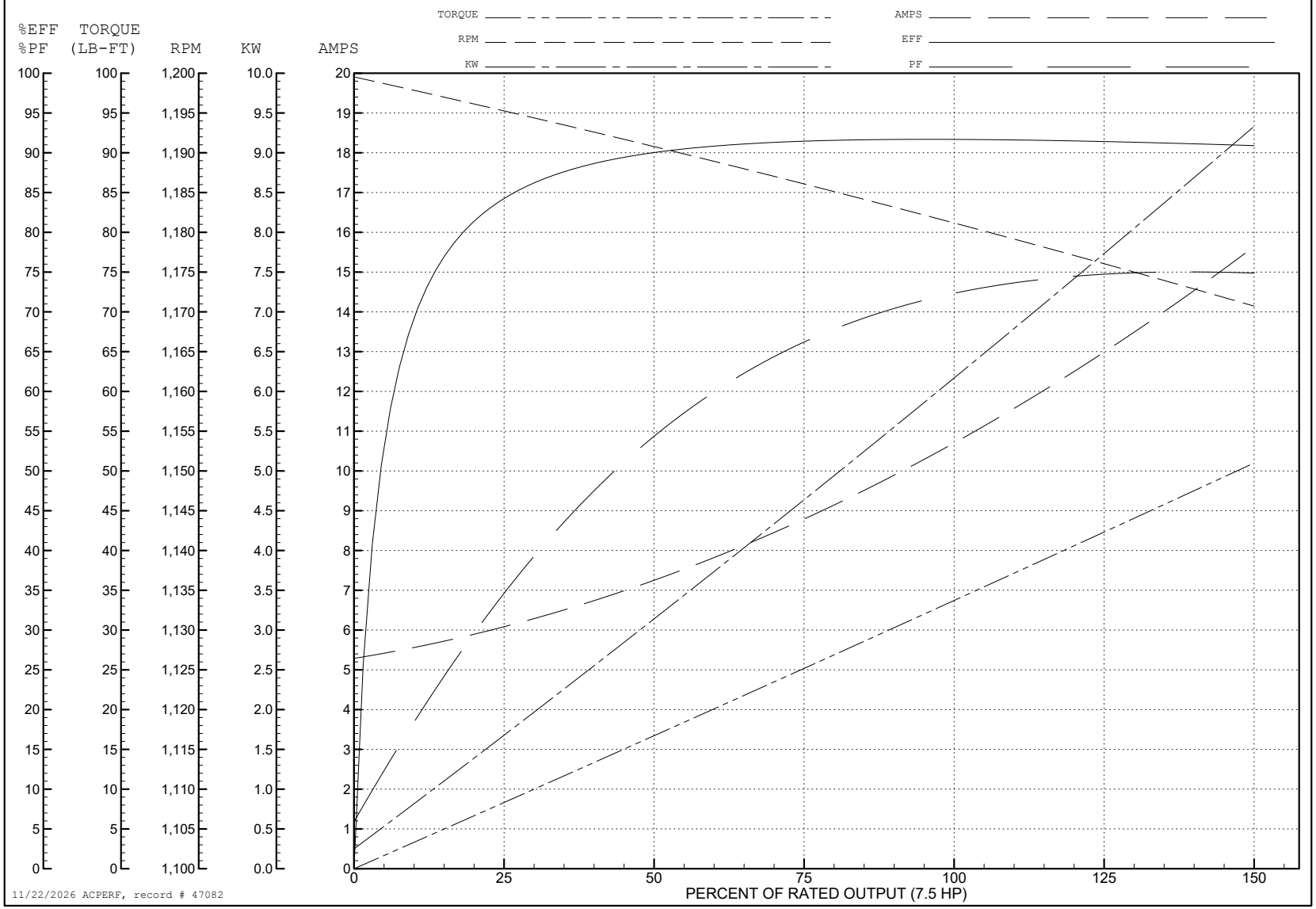
ABB Motors and Mechanical Inc.

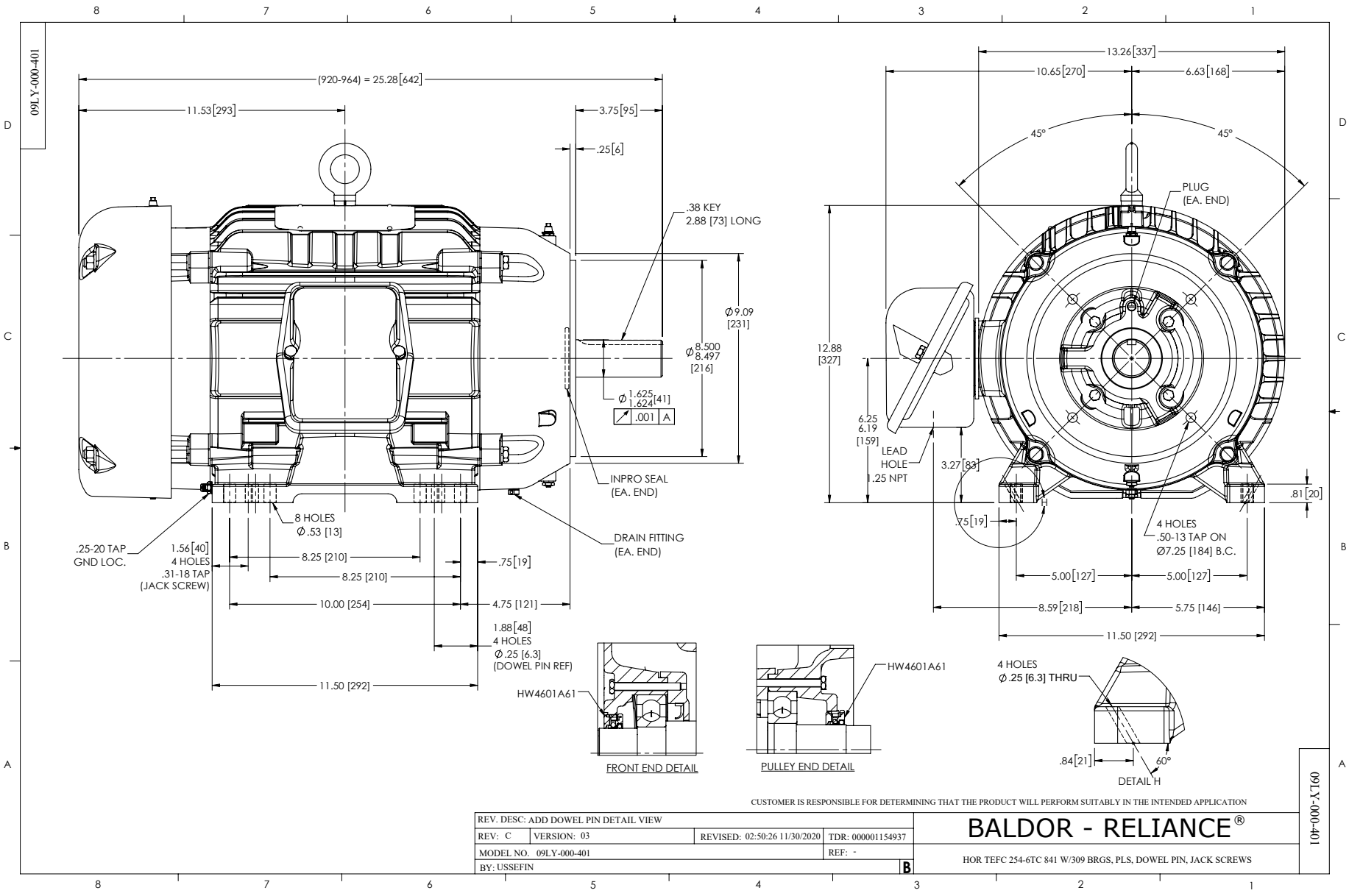
WINDING # 09WGZ222

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

Typical performance - not guaranteed values.

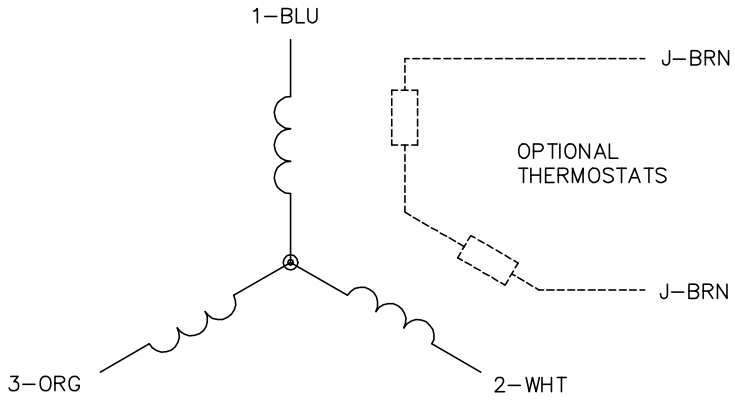
TORQUES(LB-FT): PO=92 PU=36.5 LR=53.6 LRA=64.6

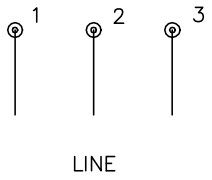



09LY-000-401
(920-964) = 25.28[642]
11.53[293]
3.75[95]
.25[6]
.38 KEY
2.88 [73] LONG
Ø9.09
[231]
Ø8.500
Ø8.497
[216]
Ø1.625
1.624[41]
.001 A
INPRO SEAL
(EA. END)
DRAIN FITTING
(EA. END)
8 HOLES
Ø.53 [13]
.25-20 TAP
GND LOC.
1.56[40]
4 HOLES
.31-18 TAP
(JACK SCREW)
8.25 [210]
8.25 [210]
.75[19]
10.00 [254]
4.75 [121]
1.88[48]
4 HOLES
Ø.25 [6.3]
(DOWEL PIN REF)
11.50 [292]
HW4601A61
FRONT END DETAIL
HW4601A61
PULLEY END DETAIL
13.26[337]
10.65[270]
6.63[168]
45°
45°
PLUG
(EA. END)
12.88
[327]
6.25
6.19
[159]
LEAD
HOLE
1.25 NPT
3.27[83]
.81[20]
.75[19]
4 HOLES
.50-13 TAP ON
Ø7.25 [184] B.C.
5.00[127]
5.00[127]
8.59[218]
5.75 [146]
11.50 [292]
4 HOLES
Ø.25 [6.3] THRU
.84[21]
60°
DETAIL H
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DOWEL PIN DETAIL VIEW
REV: C
VERSION: 03
REVISED: 02:50:26 11/30/2020
TDR: 000001154937
MODEL NO. 09LY-000-401
REF: -
BY: USSEFIN
B
BALDOR - RELIANCE®
HOR TEFC 254-6TC 841 W/309 BRGS, PLS, DOWEL PIN, JACK SCREWS
09LY-000-401

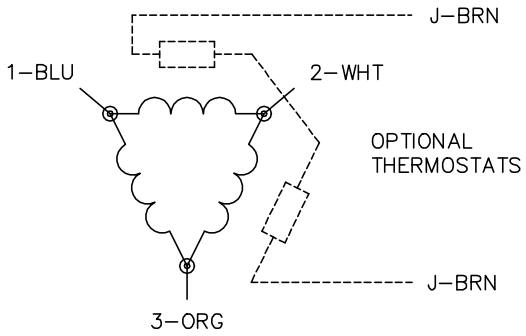
CD0006

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

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