ABB BALDOR RELIANCE

Customer information packet

CDRX25244T-5

20HP, 1770RPM, 3PH, 60HZ, 256TC, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	256TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
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
	UL
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	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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	19.2 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LY-000-582
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	06-25-2019

IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.00 IN
Power Factor	83
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	09-0000-1447			**INV.TYPE**	PWM						
CAT.NO.	CDRX25244T-5			**C HP FR**	60	**C HP TO**	90				
HP	20			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	575			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	19.2		**MAG CUR**								
RPM	1770		**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	93				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	2.62				
FRAME	256TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

AC Induction Motor Performance Data
Record # 76570
Typical performance - not guaranteed values

Winding: 09WGT507-R013	**Type:** 0960M	**Enclosure:** XPFC

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	**No-load Current**	8.28 A
NEMA Nom. Eff.	93	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.524 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	26.9
				Rotor inertia	2.65 LB-FT2

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	67	78	83	86	87
Efficiency	89.2	93	93.7	93.6	93.1	92.4
Speed	1793	1786	1779	1772	1764	1755
Line amperes	9.41	11.99	15.34	19.19	23.44	27.92

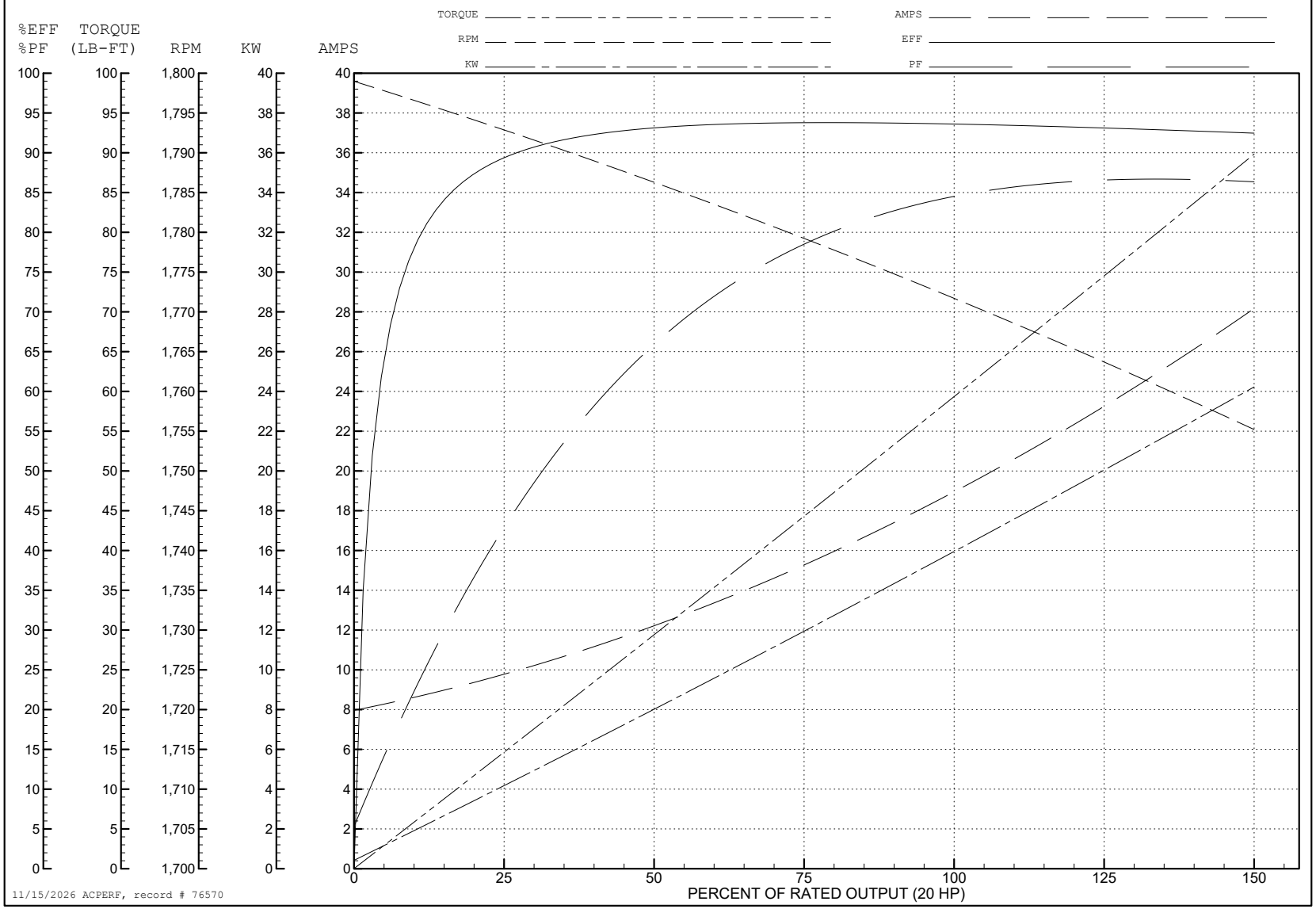
ABB Motors and Mechanical Inc.

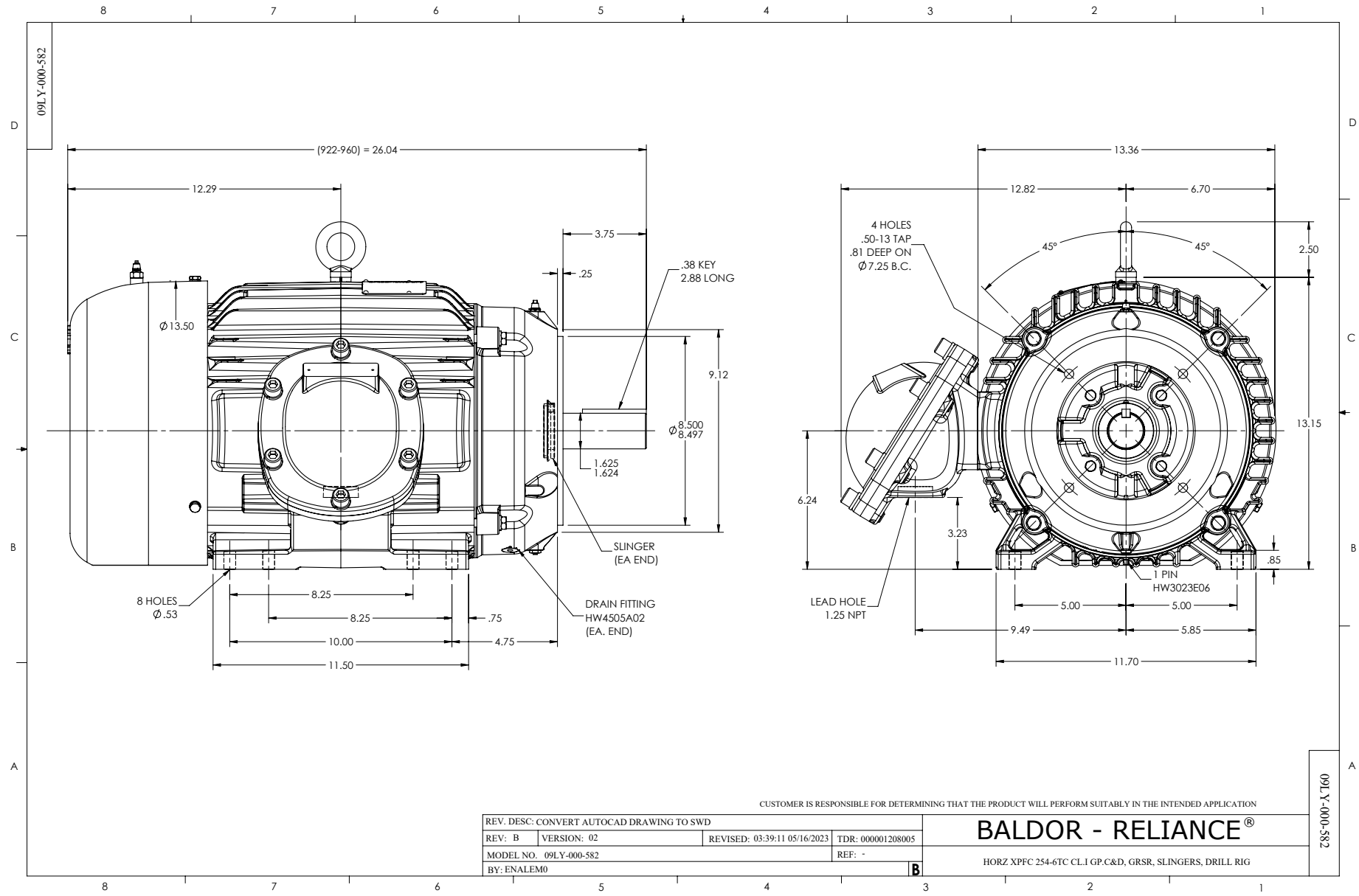
WINDING # 09WGT507

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

Typical performance - not guaranteed values.

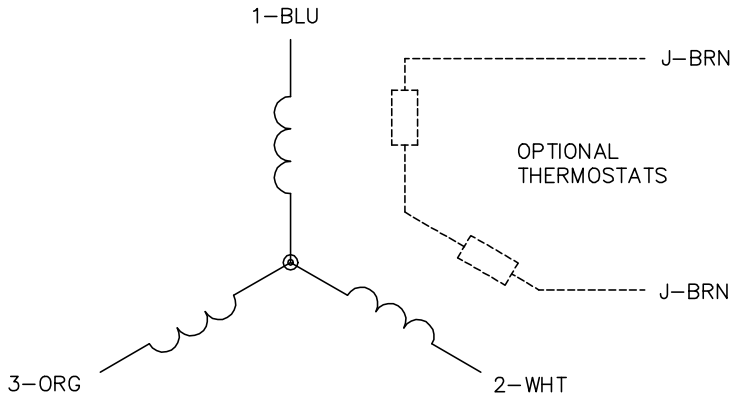
TORQUES(LB-FT): PO=231 PU=126 LR=140 LRA=158

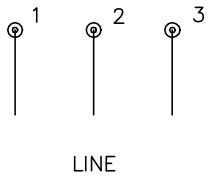



09LY-000-582
(922-960) = 26.04
12.29
3.75
.25
.38 KEY
2.88 LONG
Ø13.50
9.12
Ø8.500
8.497
1.625
1.624
SLINGER
(EA END)
8 HOLES
Ø.53
8.25
8.25
.75
10.00
4.75
11.50
DRAIN FITTING
HW4505A02
(EA. END)
13.36
12.82
6.70
4 HOLES
.50-13 TAP
.81 DEEP ON
Ø7.25 B.C.
45°
45°
2.50
13.15
6.24
3.23
.85
1 PIN
HW3023E06
LEAD HOLE
1.25 NPT
5.00
5.00
9.49
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: B
VERSION: 02
REVISED: 03:39:11 05/16/2023
TDR: 000001208005
MODEL NO. 09LY-000-582
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 254-6TC CL.I GP.C&D, GRSR, SLINGERS, DRILL RIG
09LY-000-582

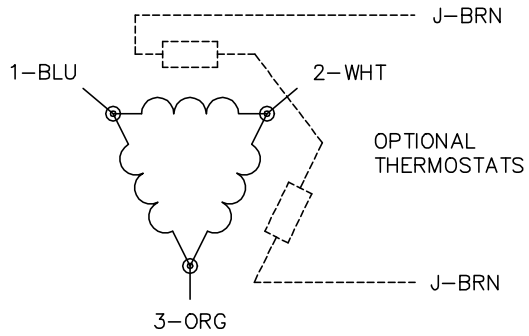
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1