ABB BALDOR RELIANCE

Customer information packet

DRX25224T-5

20HP, 3530RPM, 3PH, 60HZ, 256T, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	256T
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	3600 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	17.500 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	17.5 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ695
Layout	09LYF369
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	07-19-2019

IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.50 IN
Power Factor	91
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
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	3530 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.	09-0000-1597			**INV.TYPE**	PWM						
CAT.NO.	DRX25224T-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	17.5			**MAG CUR**	4.3						
RPM	3530			**MX RPM**	5400						
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	91				
SER.F.	1.00	**DES**	A	**SL HZ**	1.2	**WK2**	1.28				
FRAME	256T	**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 # 77604
Typical performance - not guaranteed values

Winding: 09WGZ695-R002 **Type:** 0950M **Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			20
Volts			575
Full Load Amps			17.5
R.P.M.			3530
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	91	**Power Factor**	91
Rating - Duty			40C AMB-CONT
S.F. Amps			

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	29.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	102 LB-FT
Pull-up Torque	49.5 LB-FT
Locked-rotor Torque	57.7 LB-FT
Starting Current	141 A
No-load Current	4.34 A
Line-line Res. @ 25ºC	0.647 Ω
Temp. Rise @ Rated Load	53°C
Temp. Rise @ S.F. Load	67°C
Locked-rotor Power Factor	28.1
Rotor inertia	1.28 LB-FT2

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	69	86	91	92	92	92
Efficiency	88.9	92.2	93.1	92.6	91.8	90.9
Speed	3581	3564	3546	3528	3507	3485
Line amperes	6.24	9.52	13.4	17.5	21.9	26.6

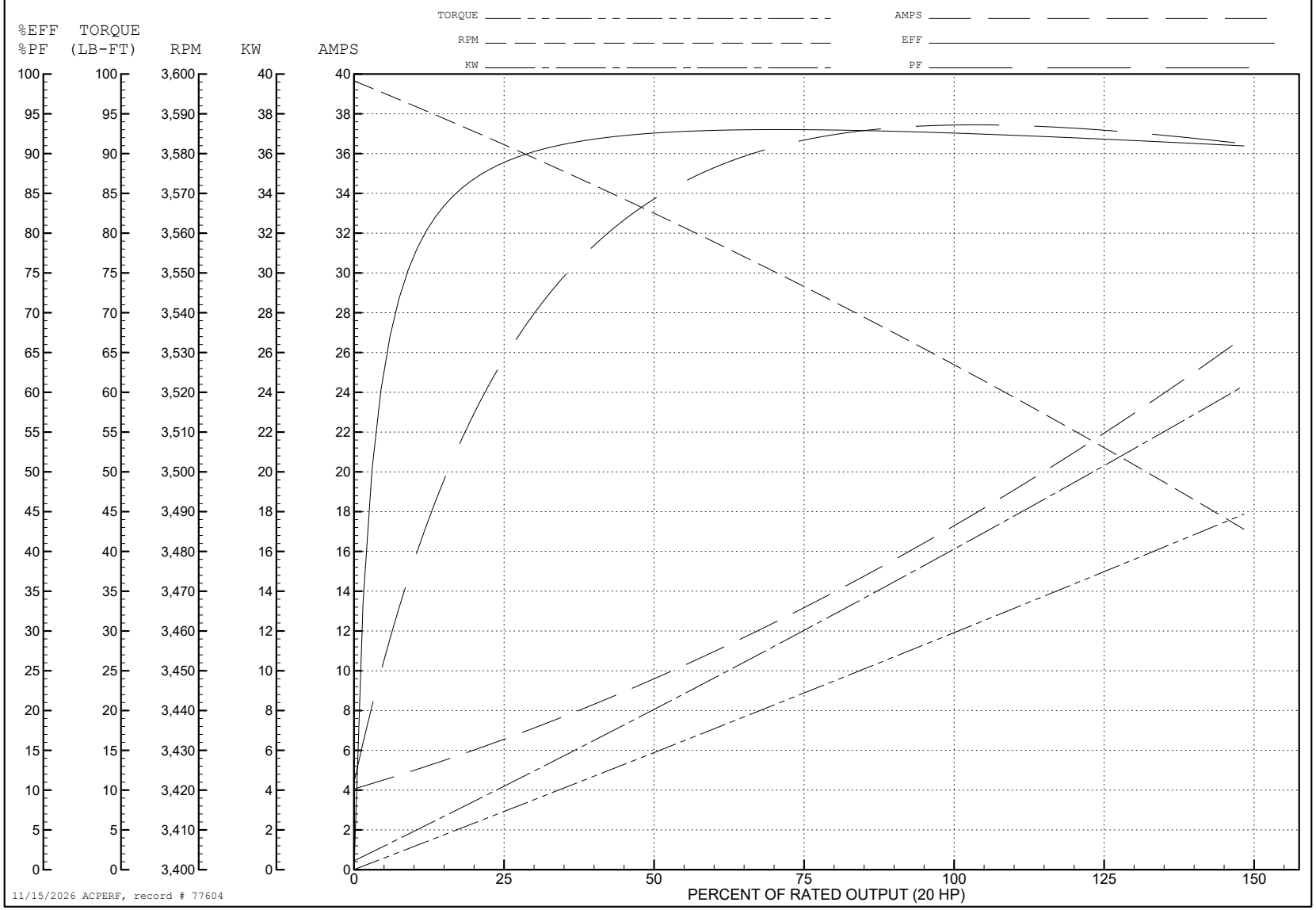
ABB Motors and Mechanical Inc.

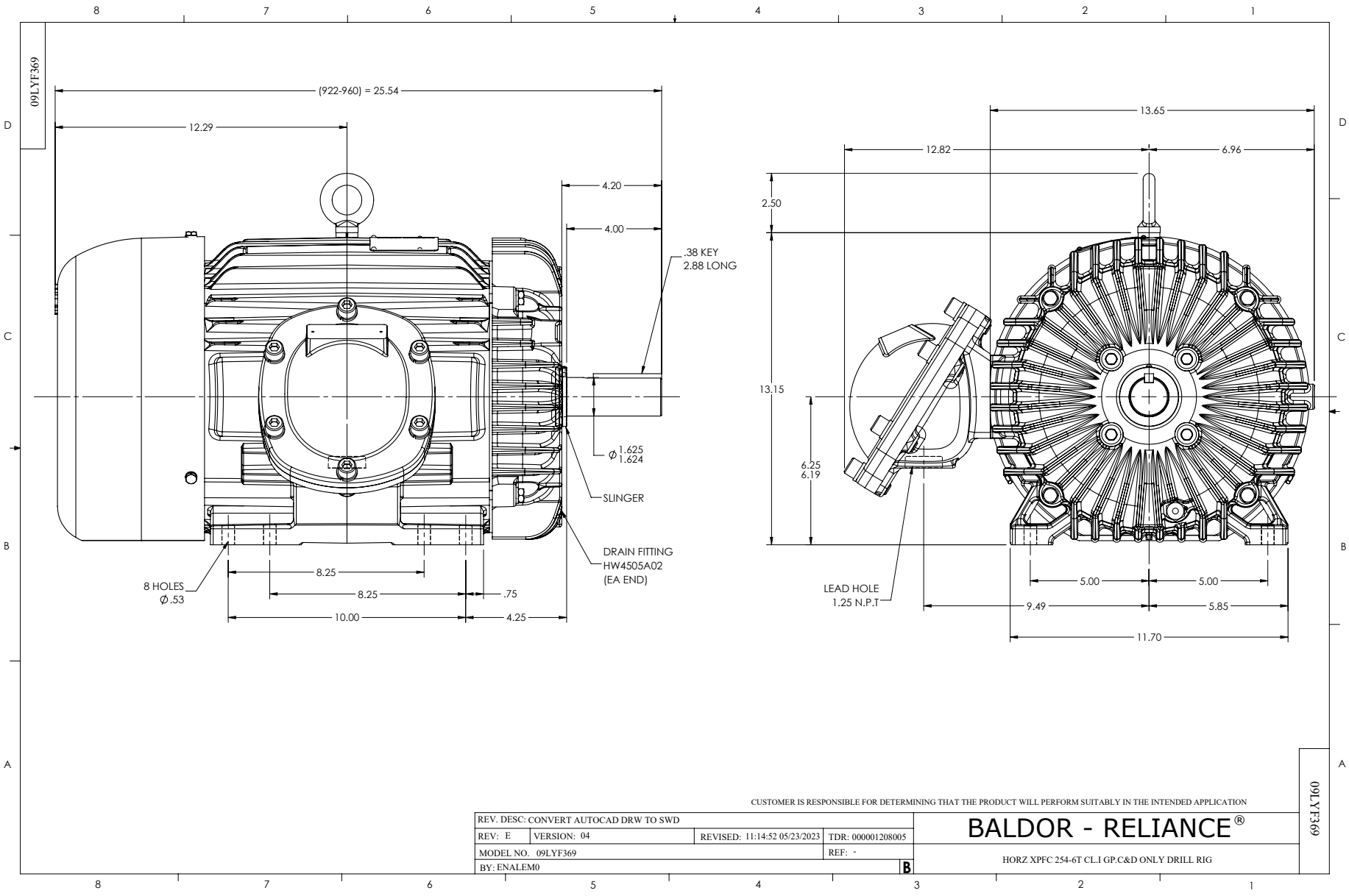
WINDING # 09WGZ695

20 HP 3 PH 60 HZ 3530 RPM 575 V 0950M

Typical performance - not guaranteed values.

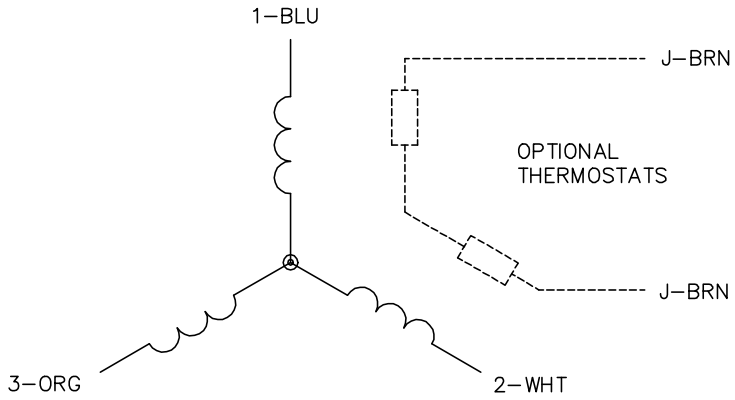
TORQUES(LB-FT): PO=102 PU=49.5 LR=57.7 LRA=141

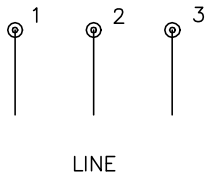



09LYF369
(922-960) = 25.54
12.29
4.20
4.00
.38 KEY
2.88 LONG
ø 1.625
1.624
SLINGER
DRAIN FITTING
HW4505A02
(EA END)
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.25
13.65
12.82
6.96
2.50
13.15
6.25
6.19
LEAD HOLE
1.25 N.P.T
5.00
5.00
9.49
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: E
VERSION: 04
REVISED: 11:14:52 05/23/2023
TDR: 000001208005
MODEL NO. 09LYF369
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 254-6T CL.I GP.C&D ONLY DRILL RIG
09LYF369

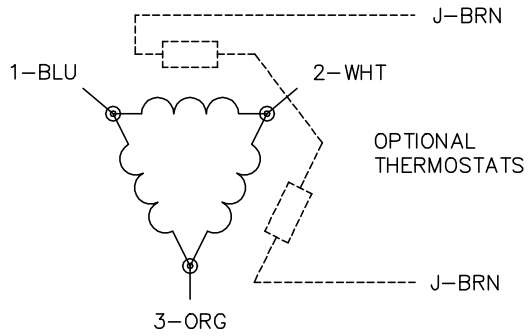
CD0006

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