ABB BALDOR RELIANCE

Customer information packet

CDRX25224T

20HP, 3530//2930RPM, 3PH, 60/50HZ, 256TC, XPF
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	256TC
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 50 HZ
	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 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	48.000 A @ 208.0 V
	44.000 A @ 230.0 V
	40.000 A @ 190.0 V
	22.000 A @ 460.0 V
	20.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ651
Layout	09LYF368
Eff. date	02-14-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	06-04-2019

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	20.0 a
Insulation Class	F
Inverter Code	Inverter Duty
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	26.00 IN
Power Factor	91
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	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.	09-0000-1443			**INV.TYPE**	PWM						
CAT.NO.	CDRX25224T			**C HP FR**	60	**C HP TO**	90				
HP	20//15			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	44/22//40/20		**MAG CUR**	5.8							
RPM	3530//2930		**MX RPM**	5400							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91				
SER.F.	1.00	**DES**	A	**SL HZ**	1.2	**WK2**	1.28				
FRAME	256TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

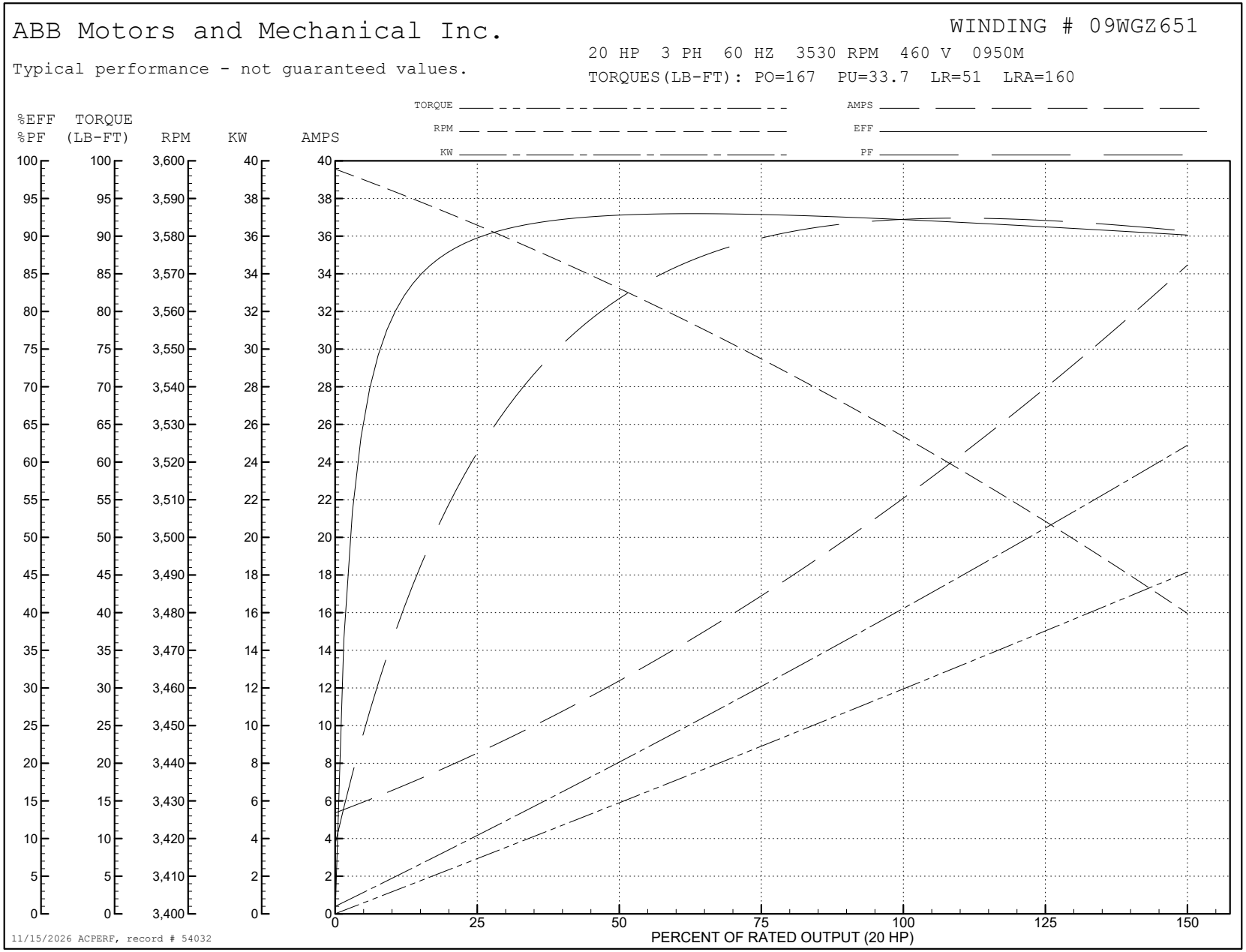
AC Induction Motor Performance Data
Record # 54032
Typical performance - not guaranteed values

Winding: 09WGZ651-R011	**Type:** 0950M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	30 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			44/22	**Breakdown Torque**	167 LB-FT
R.P.M.			3530	**Pull-up Torque**	33.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	51 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	160 A
Service Factor (S.F.)			1	**No-load Current**	5.75 A
NEMA Nom. Eff.	91	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.43337 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	65	83	89	91	91	91
Efficiency	89.4	92.7	92.9	92.4	91.4	90.1
Speed	3580.7	3566.7	3547.3	3526.6	3504.5	3479.4
Line amperes	8.04	12.2	17.1	22.4	28.2	34.2


ABB Motors and Mechanical Inc.
WINDING # 09WGZ651
20 HP 3 PH 60 HZ 3530 RPM 460 V 0950M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=167 PU=33.7 LR=51 LRA=160
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/15/2026 ACPERF, record # 54032

AC Induction Motor Performance Data
Record # 75709
Typical performance - not guaranteed values

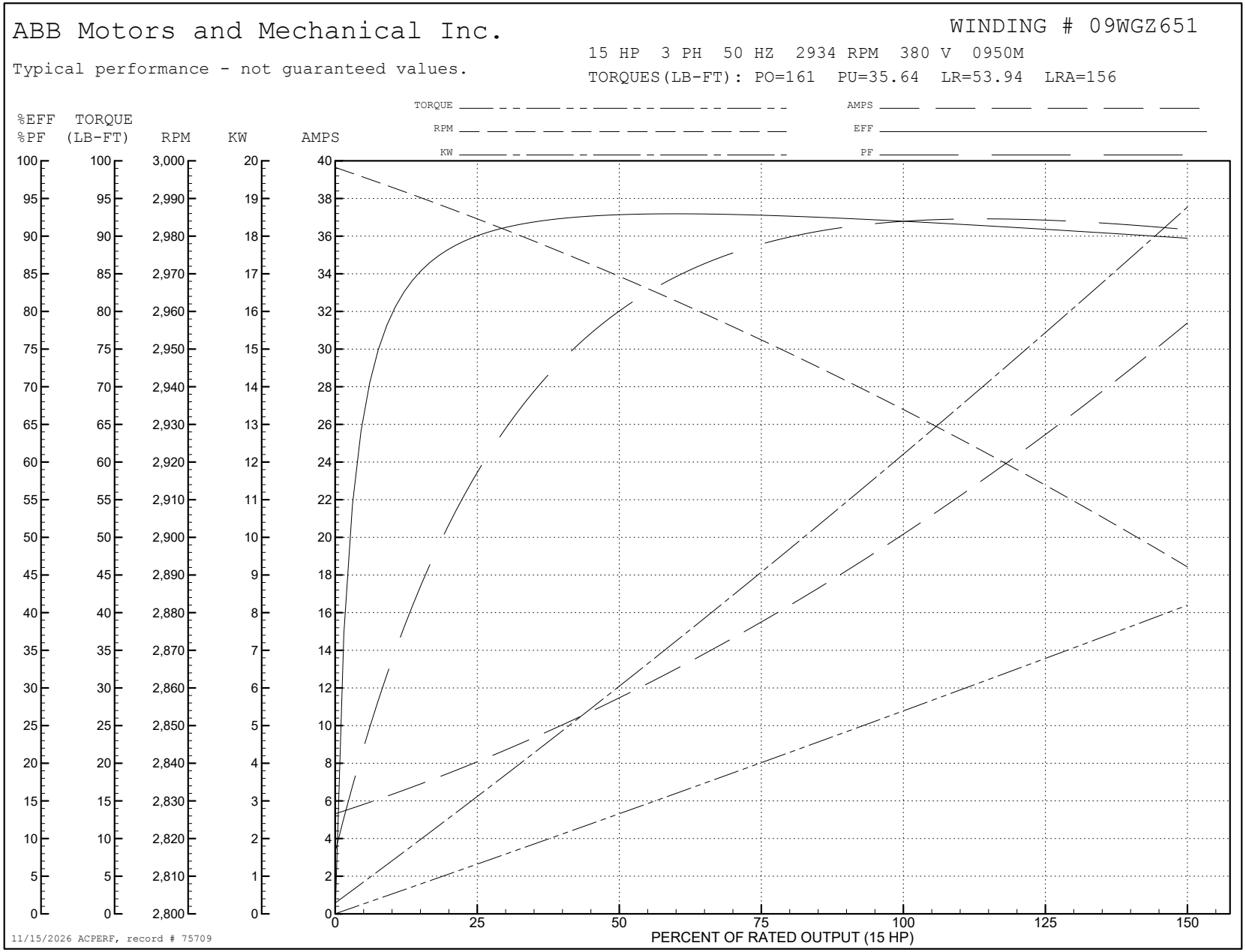
Winding: 09WGZ651-R010	**Type:** 0950M	**Enclosure:** XPFC

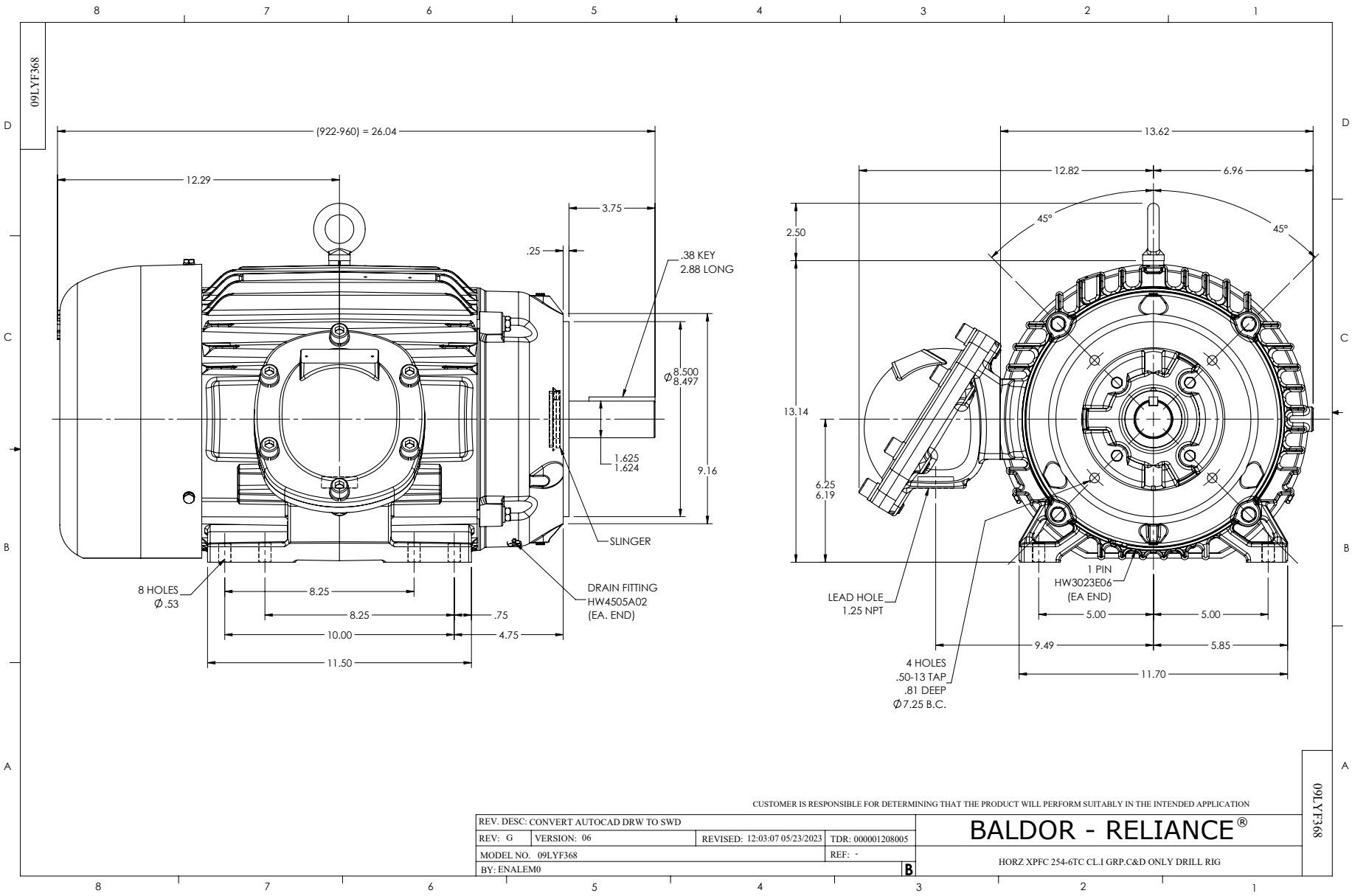
Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			44/22//40/20
R.P.M.			3530//2930
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	91	**Power Factor**	91
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	27.04 LB-FT
Start Configuration	direct on line
Breakdown Torque	161 LB-FT
Pull-up Torque	35.64 LB-FT
Locked-rotor Torque	53.94 LB-FT
Starting Current	156 A
No-load Current	5.68 A
Line-line Res. @ 25ºC	0.41 Ω
Temp. Rise @ Rated Load	51°C
Temp. Rise @ S.F. Load	64°C
Locked-rotor Power Factor	31.3
Rotor inertia	1.28 LB-FT2

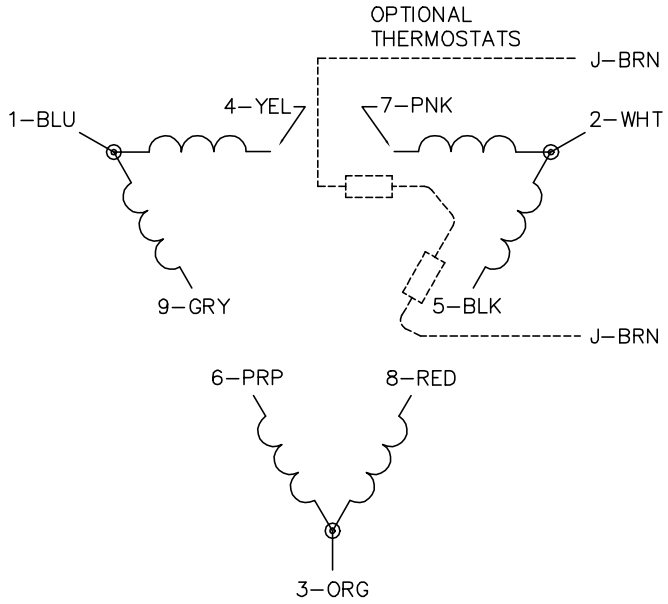
Load Characteristics 380 V, 50 Hz, 15 HP

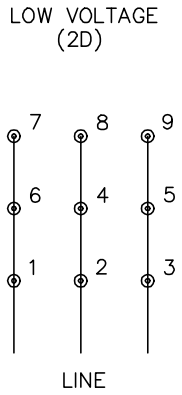
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	62	82	88	91	91	92
Efficiency	89.5	92.9	92.7	91.9	90.9	89.7
Speed	2983	2970	2952	2934	2914	2892
Line amperes	7.59	11.31	15.7	20.45	25.66	31.13

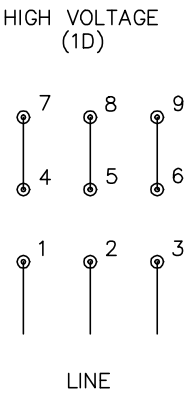

ABB Motors and Mechanical Inc.
WINDING # 09WGZ651
15 HP 3 PH 50 HZ 2934 RPM 380 V 0950M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=161 PU=35.64 LR=53.94 LRA=156
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/15/2026 ACPERF, record # 75709


09LYF368
(922-960) = 26.04
12.29
3.75
.25
.38 KEY
2.88 LONG
Ø 8.500
8.497
1.625
1.624
9.16
SLINGER
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.75
11.50
DRAIN FITTING
HW4505A02
(EA. END)
13.62
12.82
6.96
45°
45°
2.50
13.14
6.25
6.19
1 PIN
HW3023E06
(EA END)
LEAD HOLE
1.25 NPT
5.00
5.00
9.49
5.85
11.70
4 HOLES
.50-13 TAP
.81 DEEP
Ø 7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: G
VERSION: 06
REVISED: 12:03:07 05/23/2023
TDR: 000001208005
MODEL NO. 09LYF368
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 254-6TC CL.I GRP.C&D ONLY DRILL RIG
09LYF368

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

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