ABB BALDOR RELIANCE

Customer information packet

EM7053T

15//10HP, 3520//2930RPM, 3PH, 60//50HZ, 254T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	254T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ
	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA
	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
Current @ Voltage	38.000 A @ 208.0 V
	35.000 A @ 230.0 V
	29.400 A @ 190.0 V
	17.500 A @ 460.0 V
	14.700 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	AH
Type	AC
Mech. spec.	09E270
Base	
Status	PRD/A
Elec. spec.	09WGZ602
Layout	09LYE270
Eff. date	02-15-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	06-16-2010

Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	14.7 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0930M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.50 IN
Power Factor	87
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	None
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	2930 rpm
	3520 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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	09E270Z602G1						
CAT.NO.	EM7053T						
HP	15//10	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	35/17.5//29.4/14.7						
RPM	3520//2930						
HZ	60//50	**PH**	3	**CL**	F		
SER.F.	1.00	**DES**	B	**CODE**	G		
RATING	40C AMB-CONT						
FRAME	254T			**NEMA-NOM-EFF**	91		
		PF	87				
BLANK							

AC Induction Motor Performance Data
Record # 31461
Typical performance - not guaranteed values

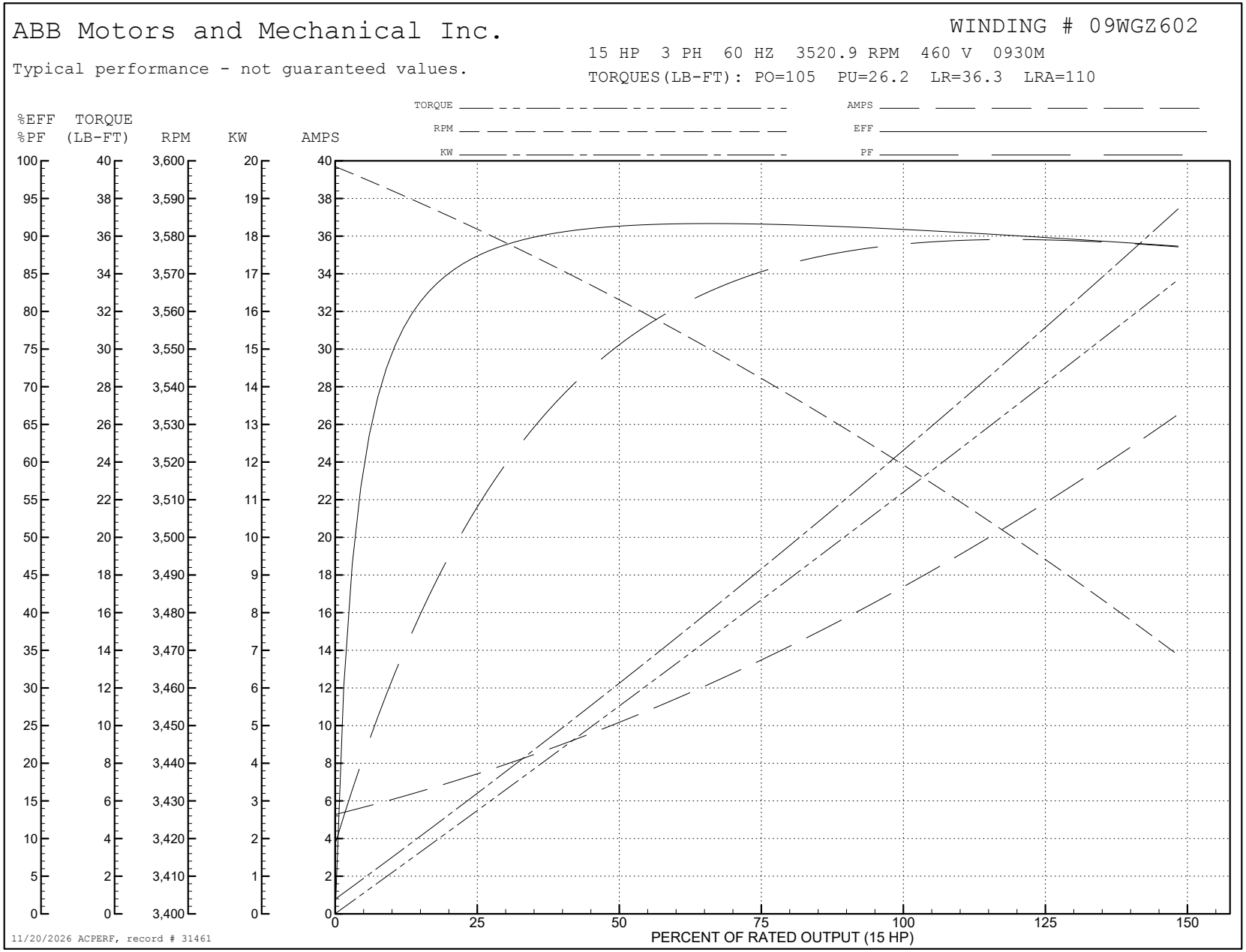
Winding: 09WGZ602-R002	**Type:** 0930M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			15//10
Volts			230/460//190/380
Full Load Amps			35/17.5//29.4/14.7
R.P.M.			3520//2930
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91	**Power Factor**	87
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.1 LB-FT
Start Configuration	direct on line
Breakdown Torque	105 LB-FT
Pull-up Torque	26.2 LB-FT
Locked-rotor Torque	36.3 LB-FT
Starting Current	110 A
No-load Current	5.58 A
Line-line Res. @ 25ºC	0.68654 Ω
Temp. Rise @ Rated Load	63°C
Locked-rotor Power Factor	30
Rotor inertia	0.766 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	55	77	85	87	89	89
Efficiency	86.4	91	91.6	91	90	88.6
Speed	3582.7	3563.6	3542.7	3520.9	3495.8	3468.3
Line amperes	6.93	9.78	13.5	17.5	21.6	26.4


ABB Motors and Mechanical Inc.
WINDING # 09WGZ602
Typical performance - not guaranteed values.
15 HP 3 PH 60 HZ 3520.9 RPM 460 V 0930M
TORQUES(LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/20/2026 ACPERF, record # 31461

AC Induction Motor Performance Data
Record # 31462
Typical performance - not guaranteed values

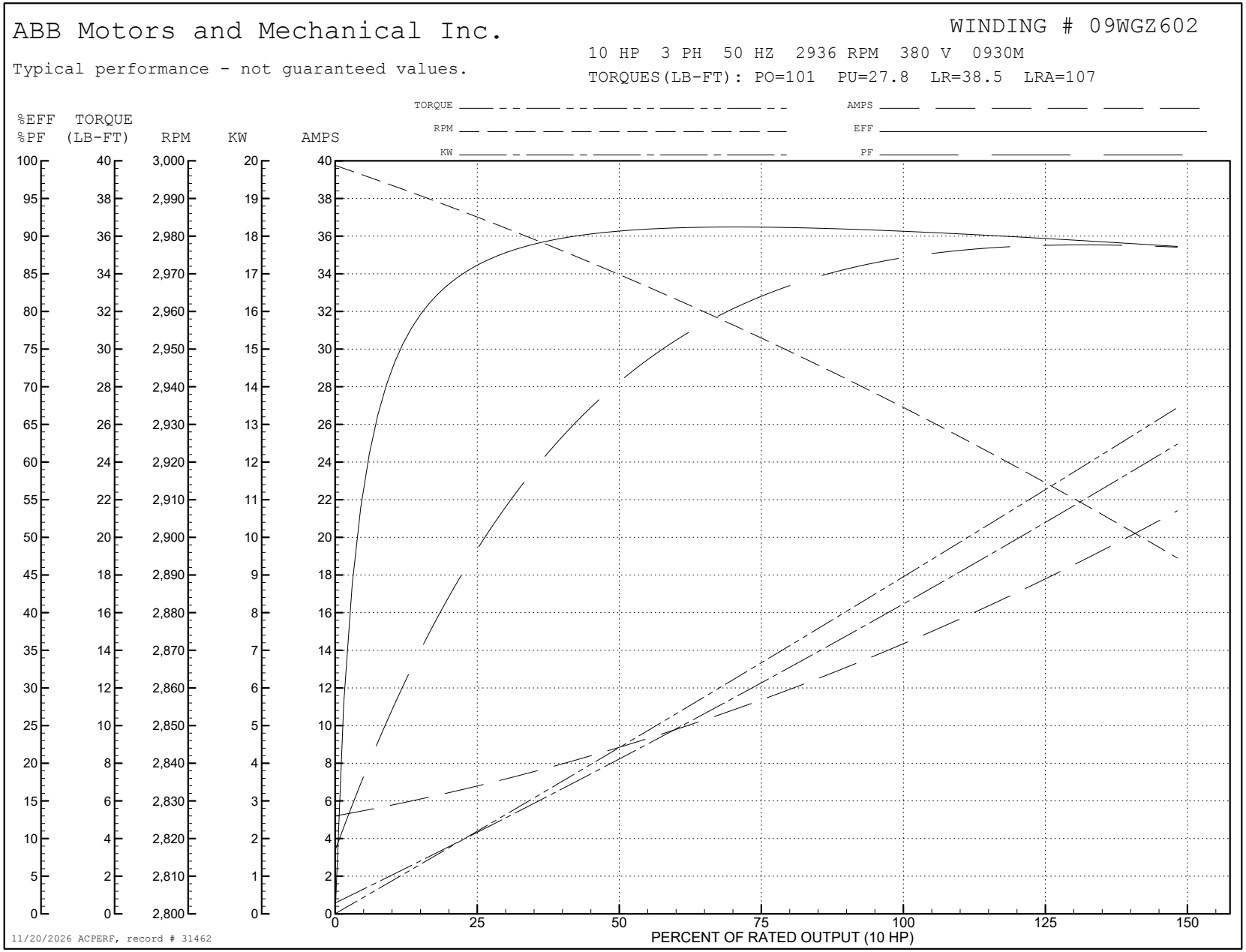
Winding: 09WGZ602-R002	**Type:** 0930M	**Enclosure:** XPFC

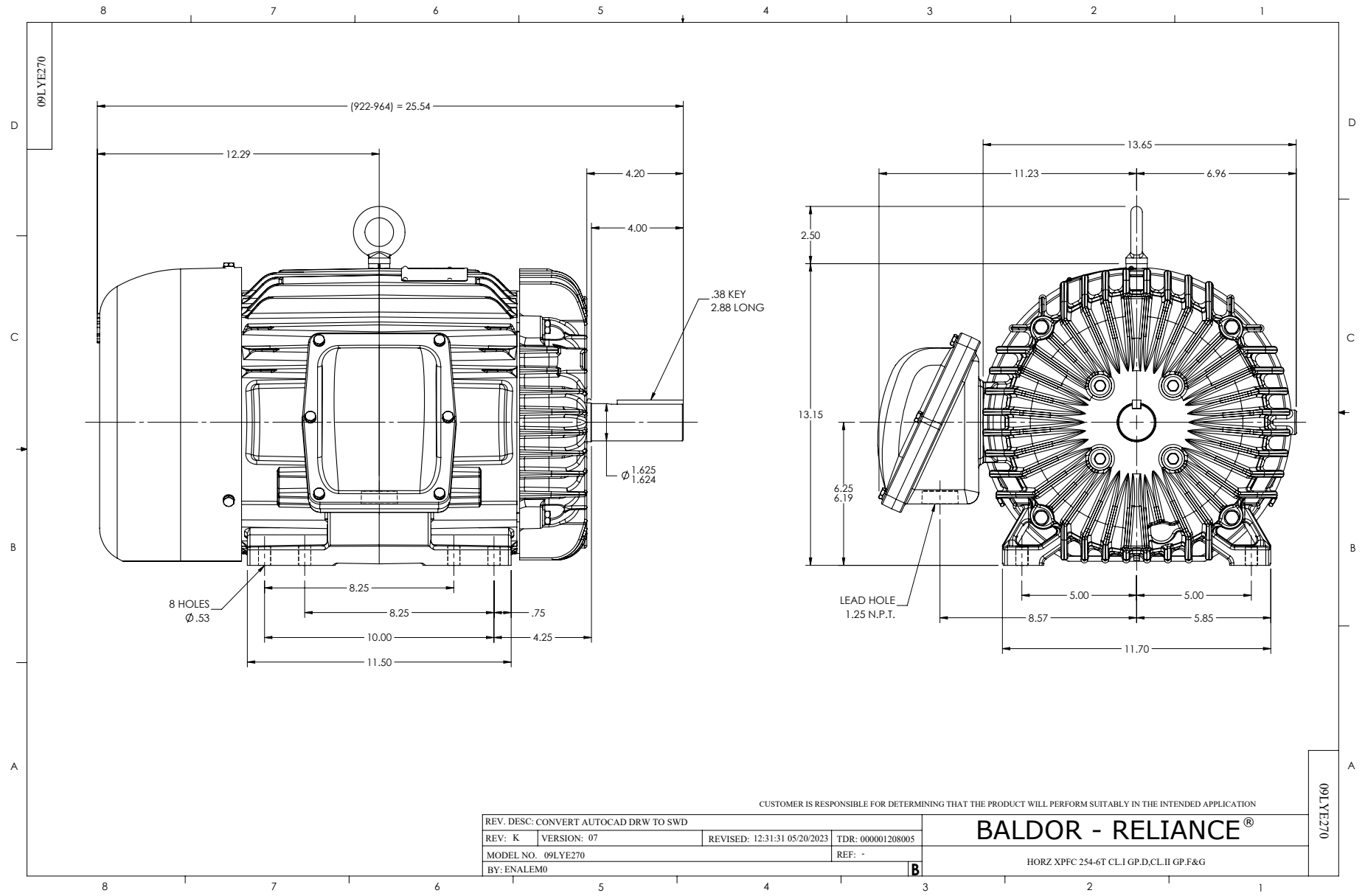
Nameplate Data			
Rated Output (HP)			15//10
Volts			230/460//190/380
Full Load Amps			35/17.5//29.4/14.7
R.P.M.			3520//2930
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91	**Power Factor**	87
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	17.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	101 LB-FT
Pull-up Torque	27.8 LB-FT
Locked-rotor Torque	38.5 LB-FT
Starting Current	107 A
No-load Current	5.45 A
Line-line Res. @ 25ºC	0.65 Ω
Temp. Rise @ Rated Load	47°C
Locked-rotor Power Factor	34.1
Rotor inertia	0.766 LB-FT2

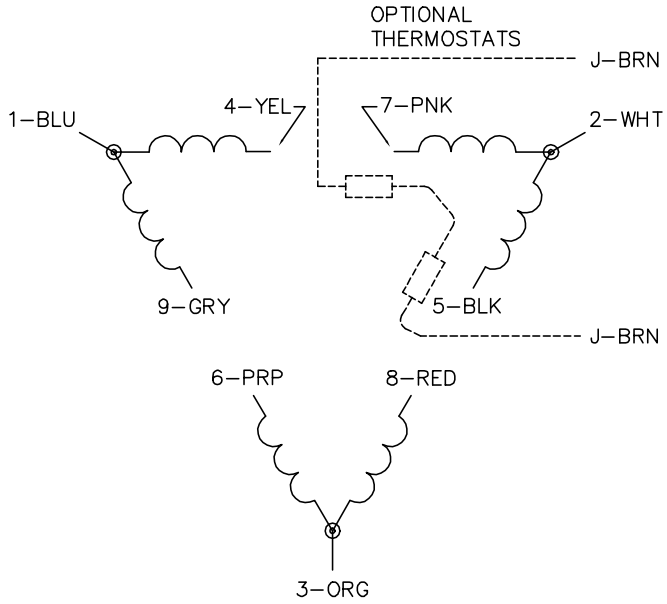
Load Characteristics 380 V, 50 Hz, 10 HP

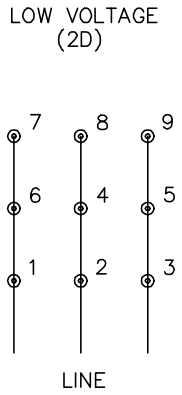
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	49	72	81	85	89	89
Efficiency	84.9	90.2	91.1	90.8	90	88.4
Speed	2986	2970	2953	2936	2916	2894
Line amperes	6.39	8.51	11.4	14.5	17.6	21.3

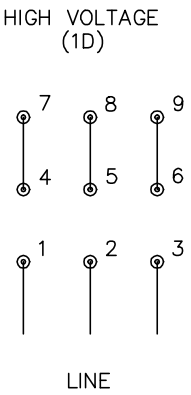

ABB Motors and Mechanical Inc.
WINDING # 09WGZ602
Typical performance - not guaranteed values.
10 HP 3 PH 50 HZ 2936 RPM 380 V 0930M
TORQUES(LB-FT): PO=101 PU=27.8 LR=38.5 LRA=107
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/20/2026 ACPERF, record # 31462


09LYE270
(922-964) = 25.54
12.29
4.20
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.25
11.50
13.65
11.23
6.96
2.50
13.15
6.25
6.19
LEAD HOLE
1.25 N.P.T.
5.00
5.00
8.57
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: K
VERSION: 07
REVISED: 12:31:31 05/20/2023
TDR: 000001208005
MODEL NO. 09LYE270
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 254-6T CL.I GP.D,CL.II GP.F&G
09LYE270

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

SH 1 of 1