

ABB BALDOR RELIANCE III

Customer information packet

EM7053T

15//10HP, 3520//2930RPM, 3PH, 60//50HZ, 254T

Class - CLI GP D; CLII GP F,G

Division - Division I

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					460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15//10		Full Load Torque		22.1 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		35/17.5//29.4/14.7		Breakdown Torque		105 LB-FT		
R.P.M.		3520//2930		Pull-up Torque		26.2 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		36.3 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		110 A
Service Factor (S.F.)		1		No-load Current		5.58 A		
NEMA Nom. Eff.		91	Power Factor		87	Line-line Res. @ 25°C		0.68654 Ω
Rating - Duty		40C		AMB-CONT		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

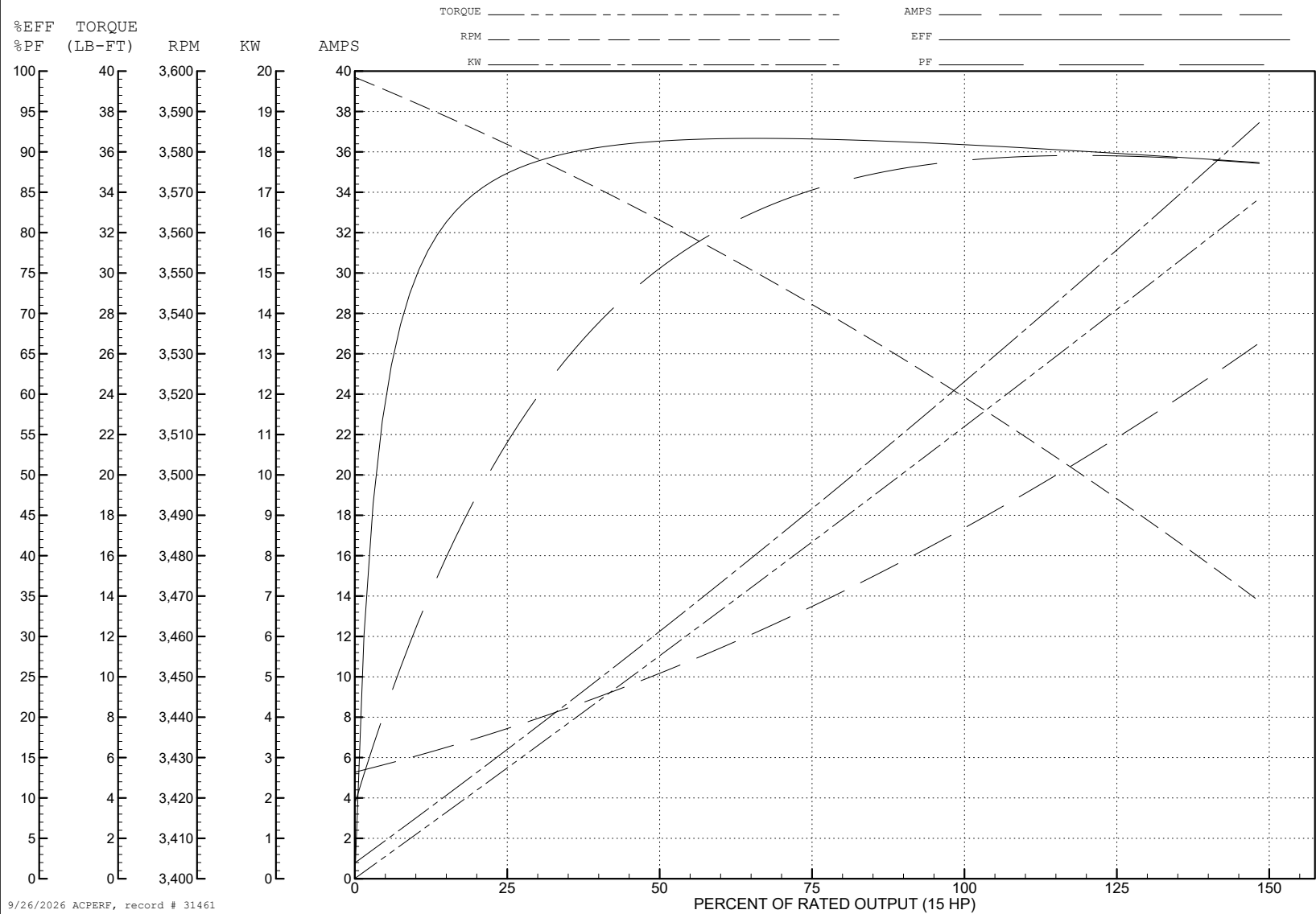
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WINDING # 09WGZ602

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



AC Induction Motor Performance Data

Record # 31462

Typical performance - not guaranteed values

Winding: 09WGZ602-R002			Type: 0930M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		15//10		Full Load Torque		17.7 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		35/17.5//29.4/14.7		Breakdown Torque		101 LB-FT		
R.P.M.		3520//2930		Pull-up Torque		27.8 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		38.5 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		107 A
Service Factor (S.F.)		1		No-load Current		5.45 A		
NEMA Nom. Eff.		91	Power Factor		87	Line-line Res. @ 25°C		0.65 Ω
Rating - Duty		40C		AMB-CONT		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

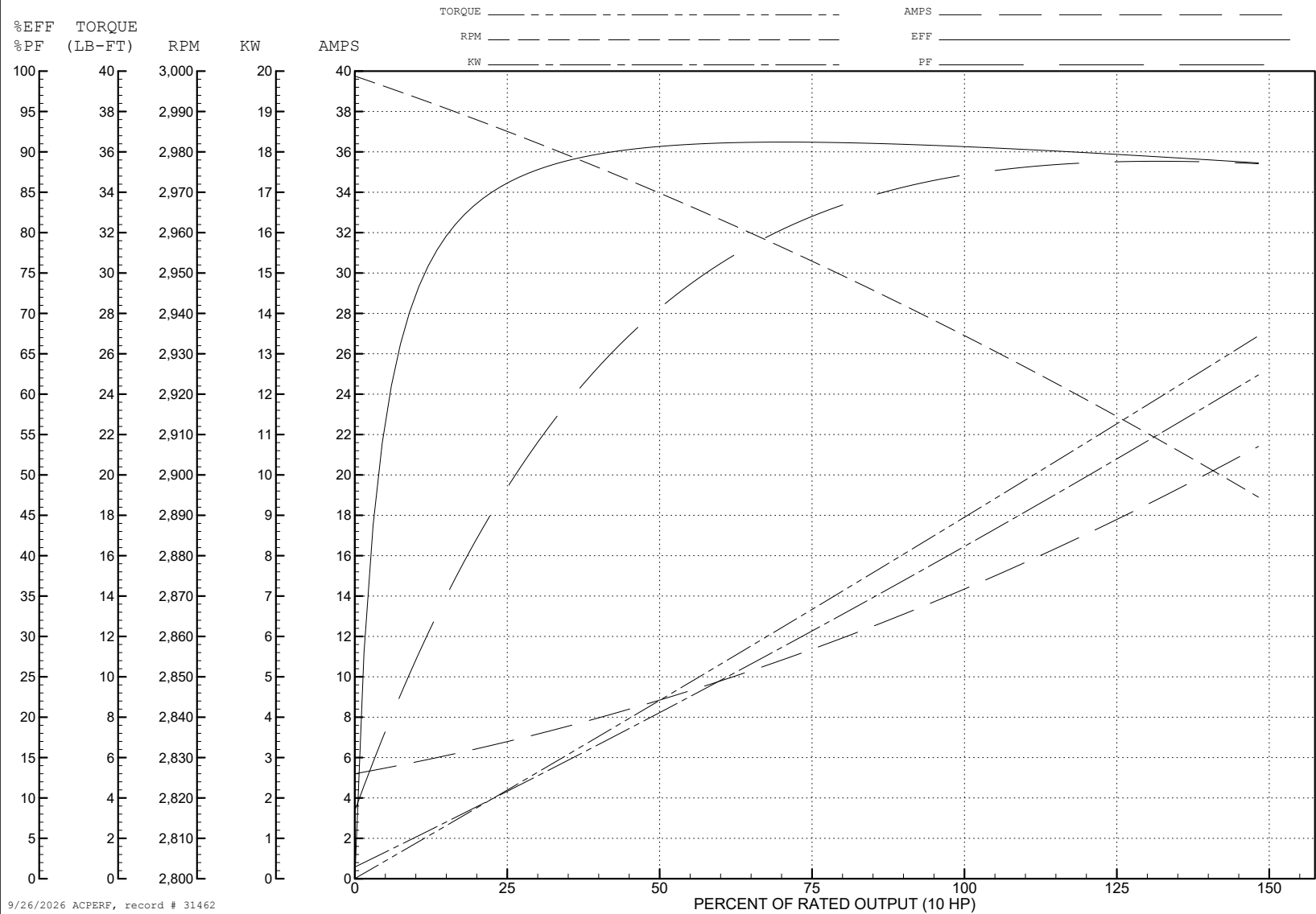
ABB Motors and Mechanical Inc.

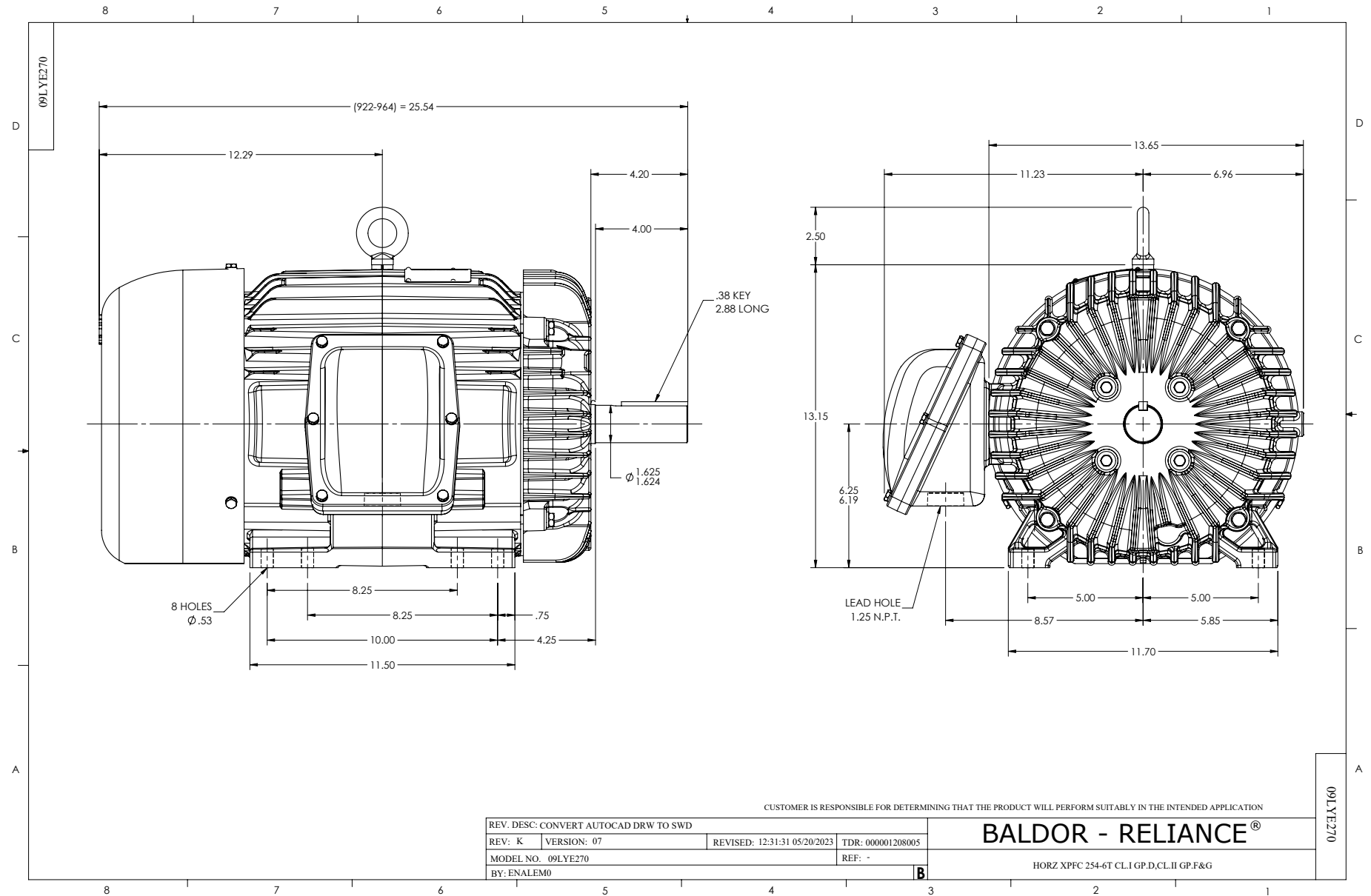
WINDING # 09WGZ602

Typical performance - not guaranteed values.

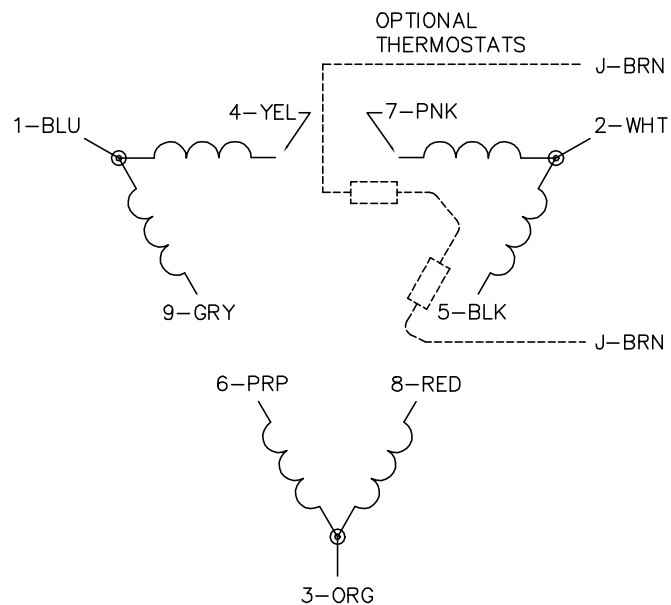
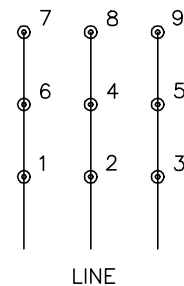
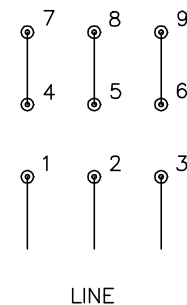
10 HP 3 PH 50 HZ 2936 RPM 380 V 0930M

TORQUES (LB-FT): PO=101 PU=27.8 LR=38.5 LRA=107





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

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: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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