ABB BALDOR RELIANCE

Customer information packet

CXM25222T

20//15HP, 3530//2930RPM, 3PH, 60//50HZ, 256T
Class - CLI GP D; CLII GP F,G
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 D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
	15.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
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	20.000 A @ 380.0 V
	22.000 A @ 460.0 V
	40.000 A @ 190.0 V
	44.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ651
Layout	09LYE689
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	02-17-2021

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	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
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

NP0887XPSLEV									
NO.				**CC**	010A				
S/N				**TEMP CODE**	T3C				
SPEC.	09-0000-2930			**INV.TYPE**	PWM				
CAT.NO.	CXM25222T			**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**	10.6/5.3				
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						
	NEMA MG-1 PART 5, IP54								
	1.15 SF ON SINE WAVE								

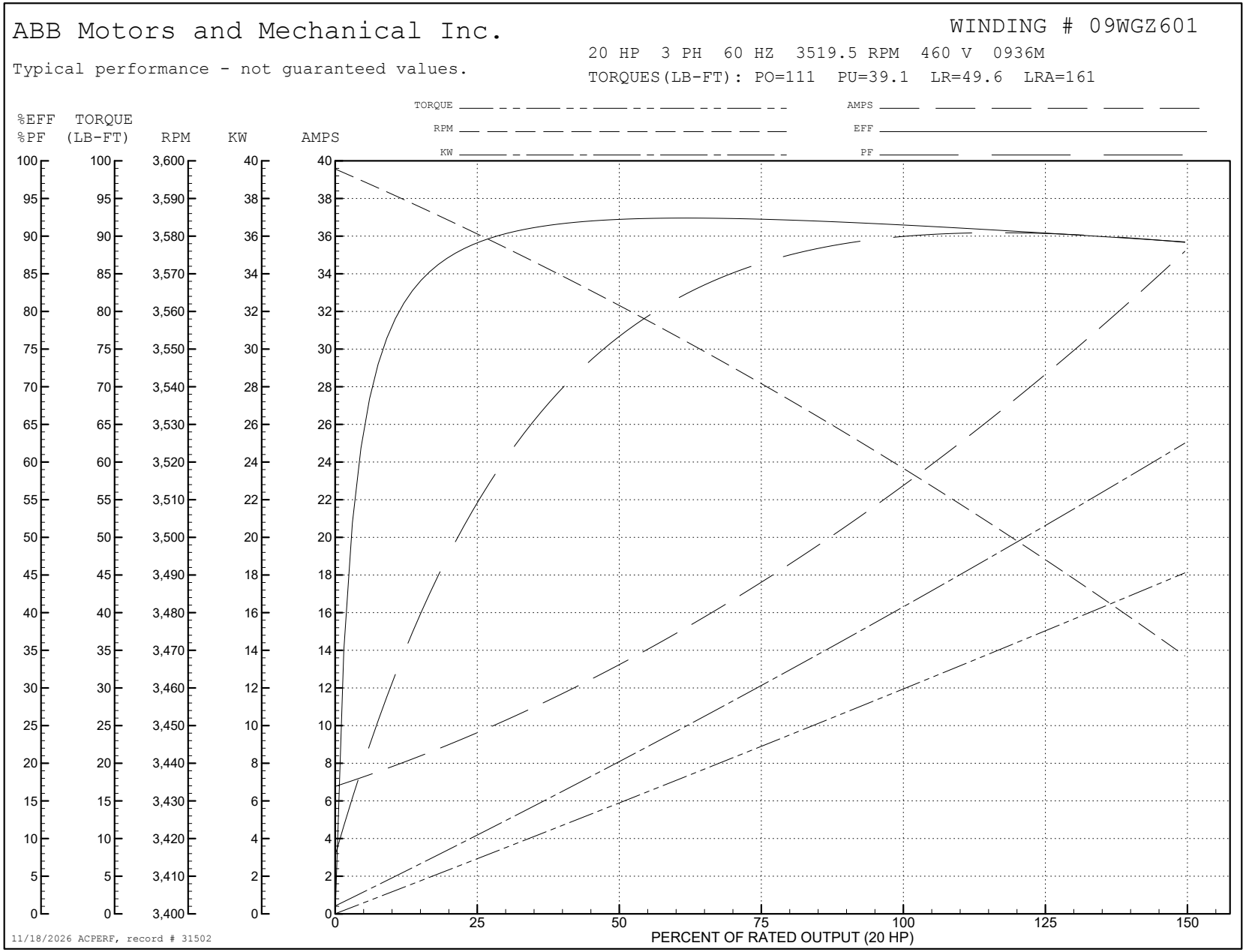
AC Induction Motor Performance Data
Record # 31502
Typical performance - not guaranteed values

Winding: 09WGZ601-R003	**Type:** 0936M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20//15	**Full Load Torque**	29.6 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			46/23//42/21	**Breakdown Torque**	111 LB-FT
R.P.M.			3520//2930	**Pull-up Torque**	39.1 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	49.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	161 A
Service Factor (S.F.)			1.15	**No-load Current**	7.17 A
NEMA Nom. Eff.	91	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.47592 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	76°C
S.F. Amps				**Temp. Rise @ S.F. Load**	95°C
				Locked-rotor Power Factor	29
				Rotor inertia	0.92 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	78	86	89	90	90	90
Efficiency	88.9	92.2	92.4	91.7	90.7	89.2	91.1
Speed	3579.6	3561.5	3541.3	3519.5	3495.4	3467.8	3505
Line amperes	9	13	17.7	22.9	28.6	35	26.3


ABB Motors and Mechanical Inc.
WINDING # 09WGZ601
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 3519.5 RPM 460 V 0936M
TORQUES(LB-FT): PO=111 PU=39.1 LR=49.6 LRA=161
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/18/2026 ACPERF, record # 31502

AC Induction Motor Performance Data
Record # 31503
Typical performance - not guaranteed values

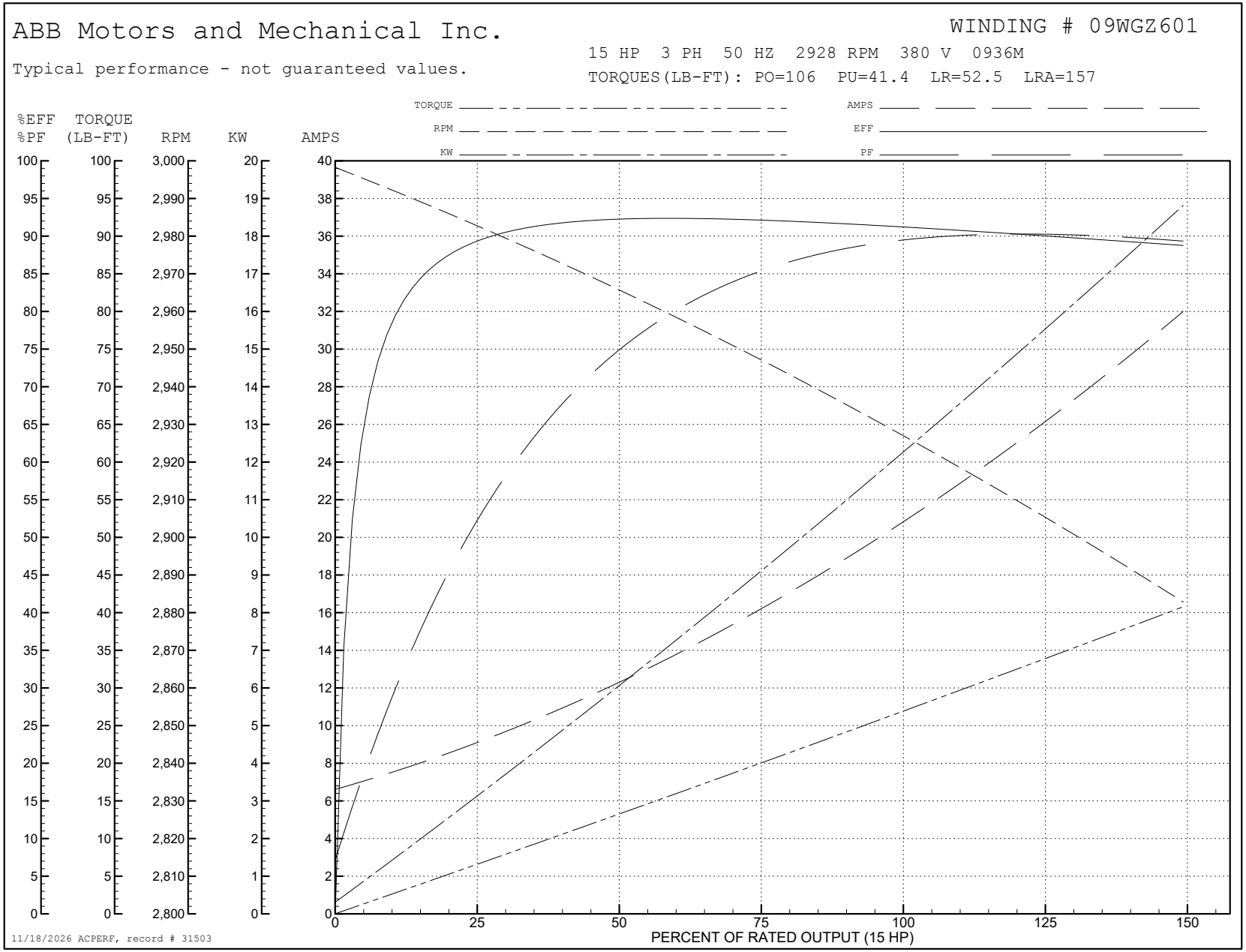
Winding: 09WGZ601-R003	**Type:** 0936M	**Enclosure:** TEFC

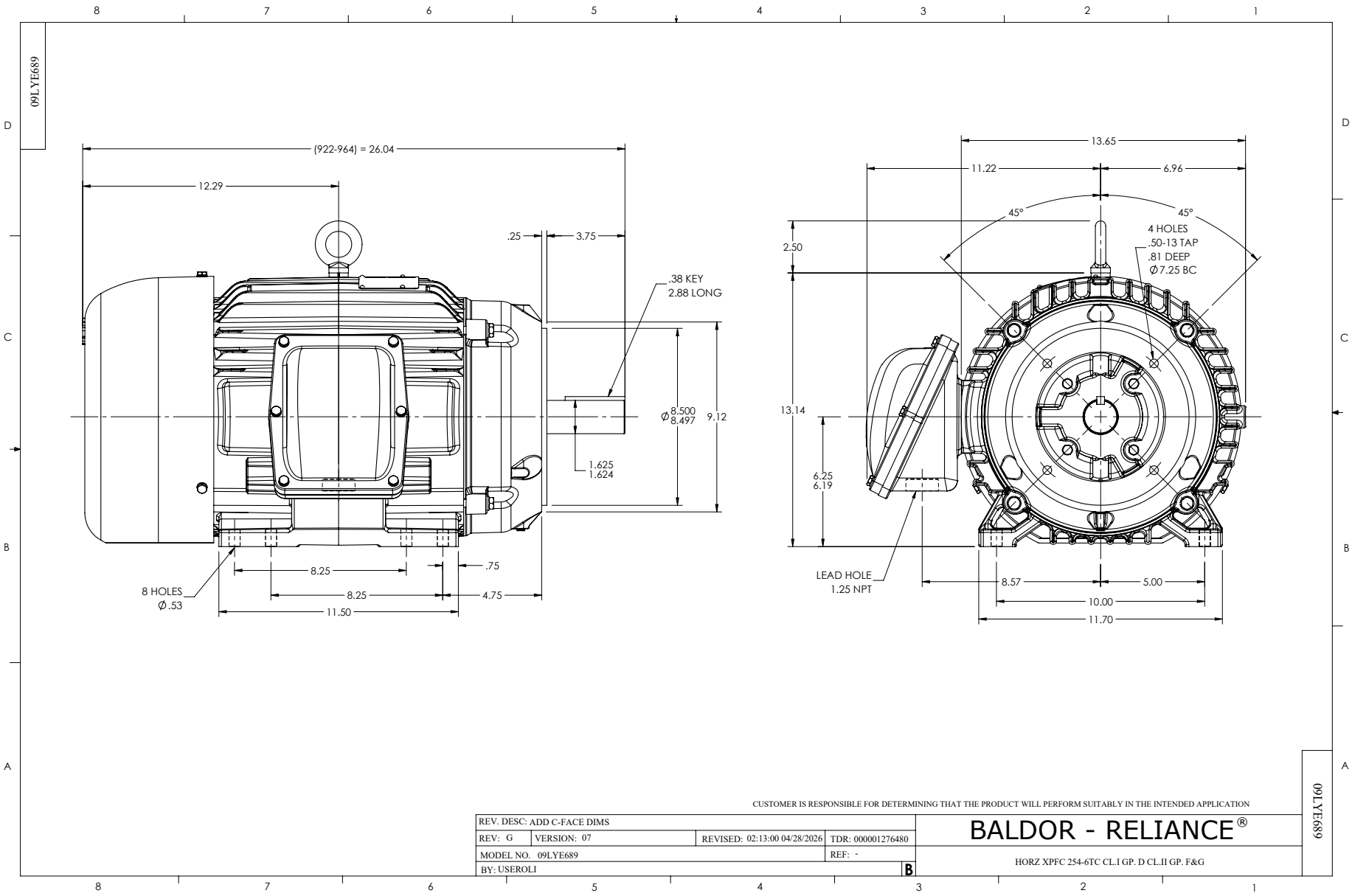
Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			46/23//42/21
R.P.M.			3520//2930
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	26.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	106 LB-FT
Pull-up Torque	41.4 LB-FT
Locked-rotor Torque	52.5 LB-FT
Starting Current	157 A
No-load Current	6.99 A
Line-line Res. @ 25ºC	0.447 Ω
Temp. Rise @ Rated Load	67°C
Temp. Rise @ S.F. Load	84°C
Locked-rotor Power Factor	33
Rotor inertia	0.92 LB-FT2

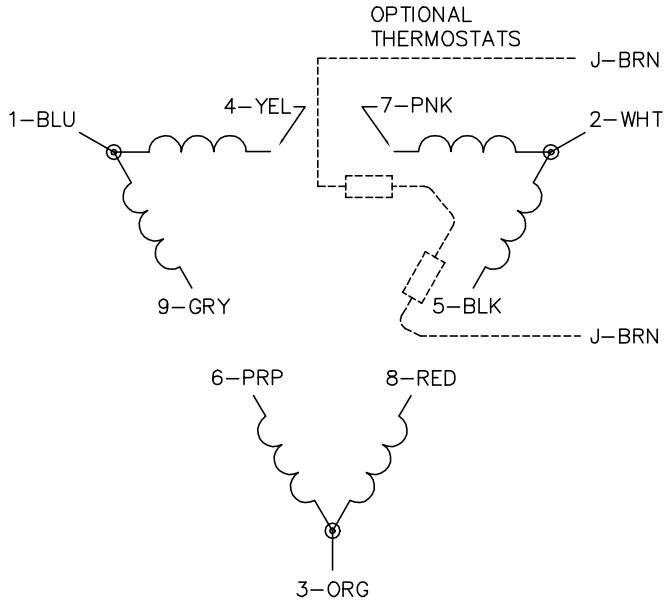
Load Characteristics 380 V, 50 Hz, 15 HP

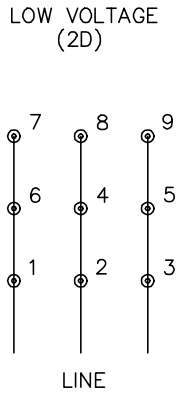
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	76	85	88	90	90	89
Efficiency	88.8	92	92.1	91.3	90.2	88.7	90.6
Speed	2982	2966	2947	2928	2907	2882	2915
Line amperes	8.55	12	16.3	21	26.1	31.8	24.1

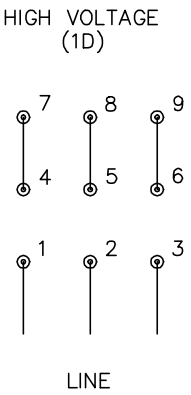

ABB Motors and Mechanical Inc.
WINDING # 09WGZ601
Typical performance - not guaranteed values.
15 HP 3 PH 50 HZ 2928 RPM 380 V 0936M
TORQUES(LB-FT): PO=106 PU=41.4 LR=52.5 LRA=157
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/18/2026 ACPERF, record # 31503


09LYE689
(922-964) = 26.04
12.29
.25
3.75
.38 KEY
2.88 LONG
Ø 8.500
8.497
9.12
1.625
1.624
8 HOLES
Ø .53
8.25
.75
8.25
4.75
11.50
13.65
11.22
6.96
45°
45°
4 HOLES
.50-13 TAP
.81 DEEP
Ø7.25 BC
2.50
13.14
6.25
6.19
LEAD HOLE
1.25 NPT
8.57
5.00
10.00
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD C-FACE DIMS
REV: G
VERSION: 07
REVISED: 02:13:00 04/28/2026
TDR: 000001276480
MODEL NO. 09LYE689
REF: -
BY: USEROLI
B
BALDOR - RELIANCE®
HORZ XPFC 254-6TC CL.I GP. D CL.II GP. F&G
09LYE689

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