ABB BALDOR RELIANCE

Customer information packet

EM7145T

7.5//5HP, 3510//2925RPM, 3PH, 60//50HZ, 213T
Class - CLI GP D; CLII GP F,G
Division - Division I

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11/18/2026 6:14:21 AM

Specifications

Enclosure	XPFC
Frame	213T
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	5.000 HP @ 50 HZ
	7.500 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
	CSA
	UL
	UR
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	7.600 A @ 380.0 V
	9.000 A @ 460.0 V
	18.000 A @ 230.0 V
	15.200 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	Q
Type	AC
Mech. spec.	07H271
Base	
Status	PRD/A
Elec. spec.	07WGY328
Layout	07LYH271
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	09-27-2012

Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	7.6 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0726M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.90 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	2925 rpm
	3510 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.	07H271Y328G1						
CAT.NO.	EM7145T						
HP	7.5//5	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	18/9//15.2/7.6						
RPM	3510//2925						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	H		
RATING	40C AMB-CONT						
FRAME	213T	**NEMA-NOM-EFF**	89.5				
		PF	86				
BLANK							

AC Induction Motor Performance Data
Record # 39945
Typical performance - not guaranteed values

Winding: 07WGY328-R004	**Type:** 0726M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			7.5//5
Volts			230/460//190/380
Full Load Amps			18/9//15.2/7.6
R.P.M.			3510//2925
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	86
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	11.2 LB-FT
Start Configuration	direct on line
Breakdown Torque	38.8 LB-FT
Pull-up Torque	20.4 LB-FT
Locked-rotor Torque	23.5 LB-FT
Starting Current	61.1 A
No-load Current	3.54 A
Line-line Res. @ 25ºC	1.2506 Ω
Temp. Rise @ Rated Load	44°C
Locked-rotor Power Factor	34
Rotor inertia	0.237 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	74	82	87	90	89
Efficiency	83.8	89.4	90.5	90.4	89.7	88.5
Speed	3580.9	3559.3	3536.6	3512.4	3485.6	3455.8
Line amperes	4.04	5.31	7.04	8.9	10.9	13.3

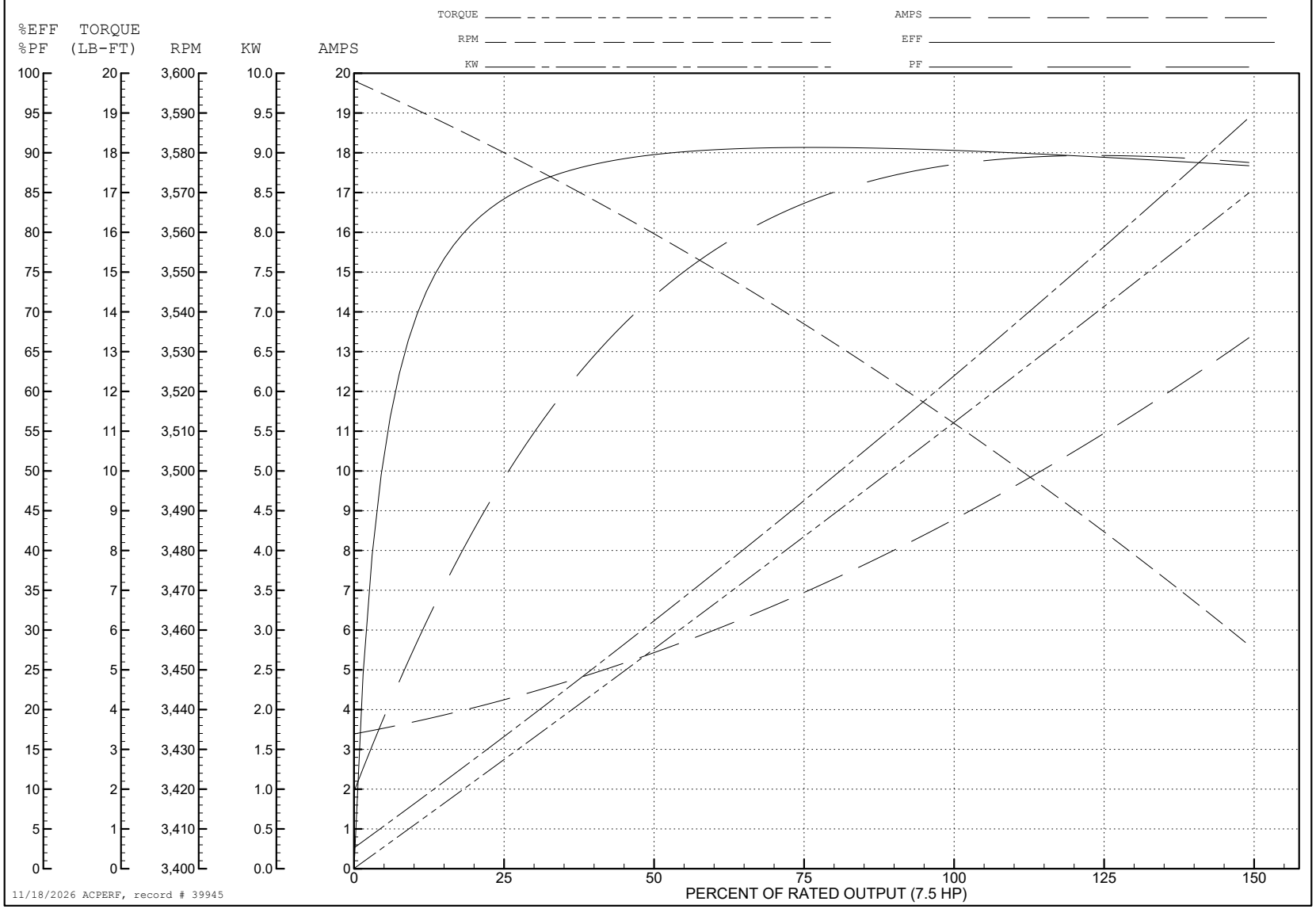
ABB Motors and Mechanical Inc.

WINDING # 07WGY328

7.5 HP 3 PH 60 HZ 3512.4 RPM 460 V 0726M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=38.8 PU=20.4 LR=23.5 LRA=61.1



11/18/2026 ACPERF, record # 39945

AC Induction Motor Performance Data
Record # 39946
Typical performance - not guaranteed values

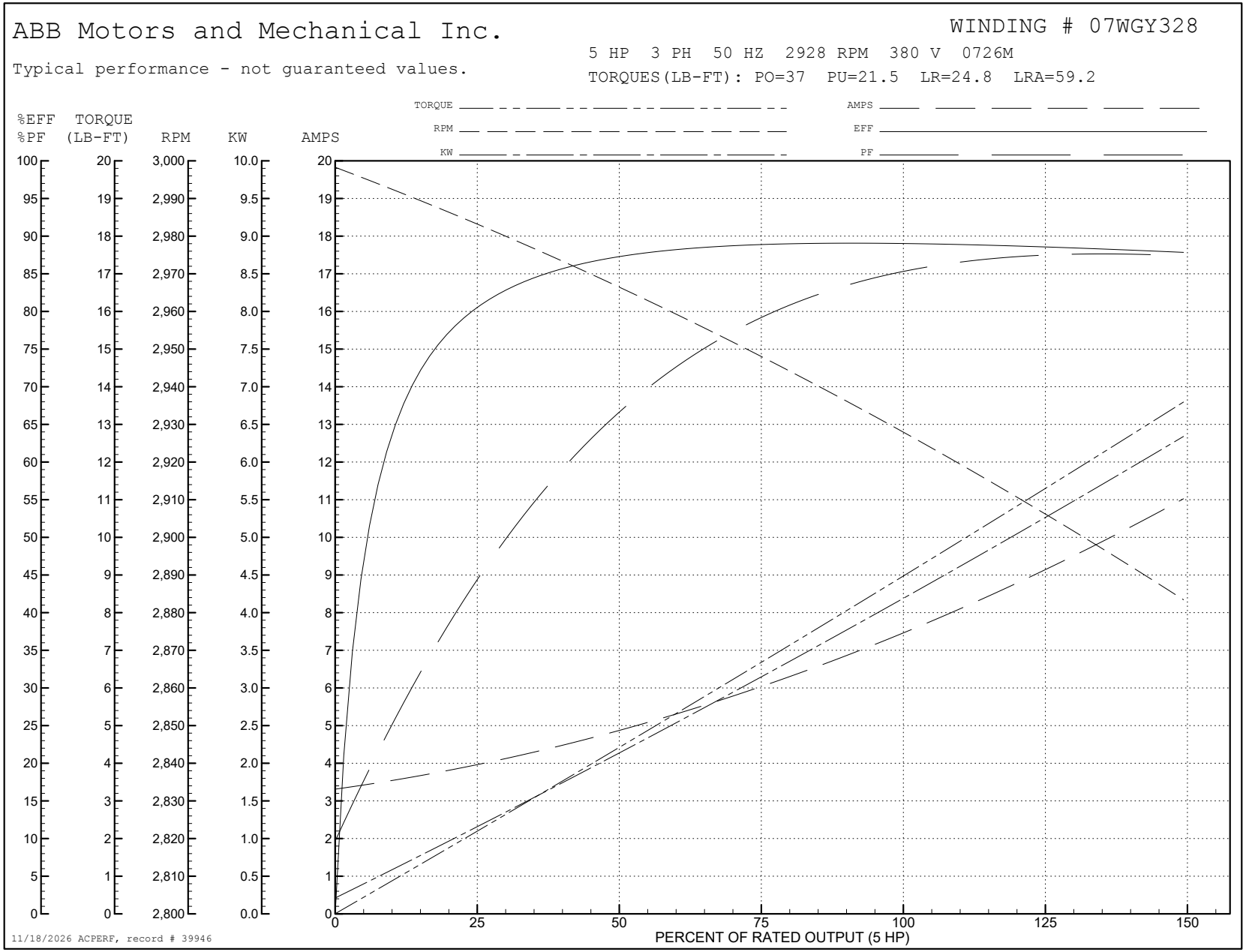
Winding: 07WGY328-R004	**Type:** 0726M	**Enclosure:** XPFC

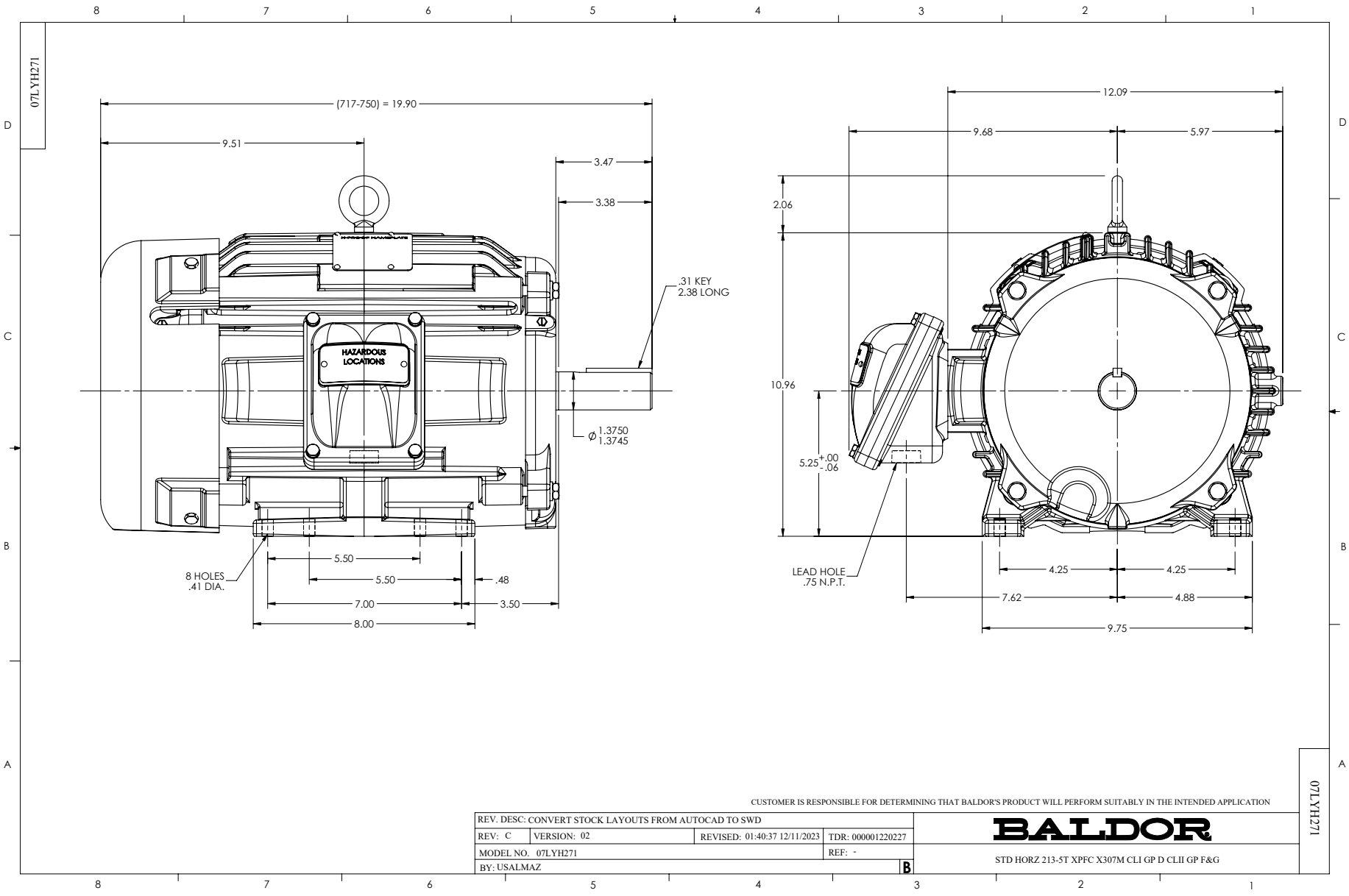
Nameplate Data			
Rated Output (HP)			7.5//5
Volts			230/460//190/380
Full Load Amps			18/9//15.2/7.6
R.P.M.			3510//2925
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	86
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	8.94 LB-FT
Start Configuration	direct on line
Breakdown Torque	37 LB-FT
Pull-up Torque	21.5 LB-FT
Locked-rotor Torque	24.8 LB-FT
Starting Current	59.2 A
No-load Current	3.43 A
Line-line Res. @ 25ºC	1.19 Ω
Temp. Rise @ Rated Load	34°C
Locked-rotor Power Factor	38
Rotor inertia	0.237 LB-FT2

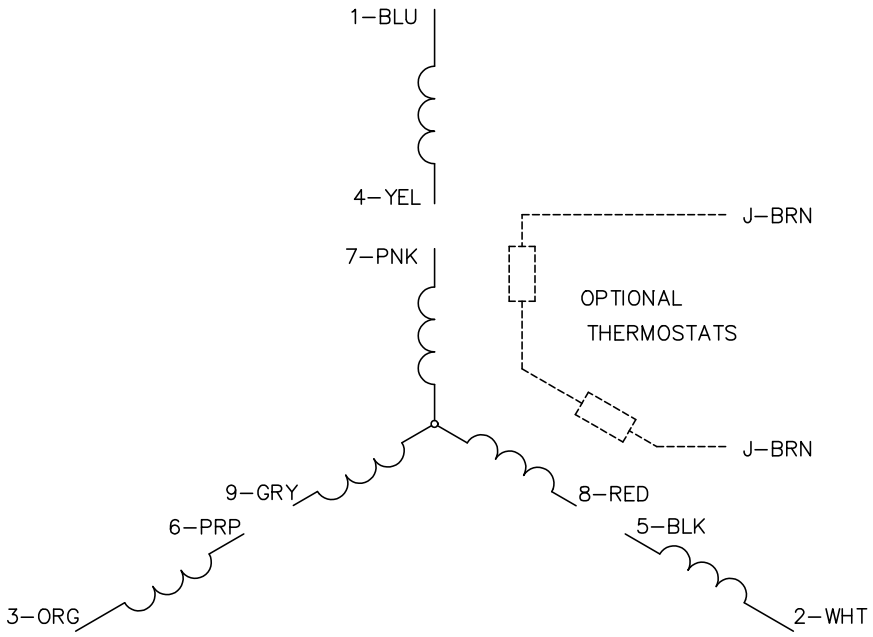
Load Characteristics 380 V, 50 Hz, 5 HP

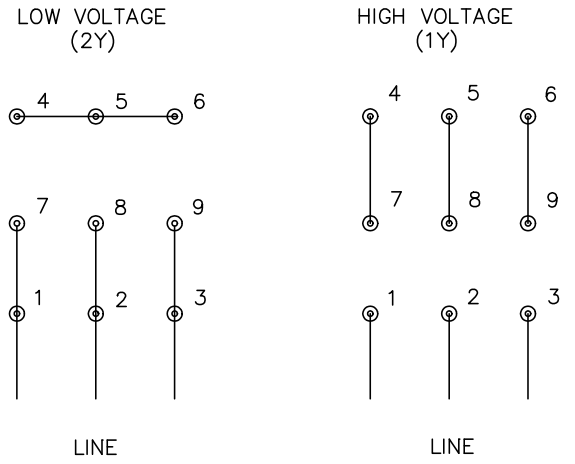
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	47	68	78	84	88	88
Efficiency	79.9	86.9	88.7	89.4	88.8	87.7
Speed	2984	2966	2948	2928	2907	2883
Line amperes	3.8	4.78	6.12	7.55	9.1	11


ABB Motors and Mechanical Inc.
WINDING # 07WGY328
5 HP 3 PH 50 HZ 2928 RPM 380 V 0726M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=37 PU=21.5 LR=24.8 LRA=59.2
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/18/2026 ACPERF, record # 39946


07LYH271
(717-750) = 19.90
9.51
3.47
3.38
.31 KEY
2.38 LONG
HAZARDOUS LOCATIONS
Ø 1.3750
1.3745
8 HOLES
.41 DIA.
5.50
5.50
.48
7.00
3.50
8.00
12.09
9.68
5.97
2.06
10.96
5.25 +.00 -.06
LEAD HOLE
.75 N.P.T.
4.25
4.25
7.62
4.88
9.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: C
VERSION: 02
REVISED: 01:40:37 12/11/2023
TDR: 000001220227
MODEL NO. 07LYH271
REF: -
BY: USALMAZ
B
BALDOR
STD HORZ 213-5T XPFC X307M CLI GP D CLII GP F&G
07LYH271

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS