ABB BALDOR RELIANCE

Customer information packet

EM7064T-I

50//40HP, 1775//1475RPM, 3PH, 60//50HZ, 326T
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	326T
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	50.000 HP @ 60 HZ
	40.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CSA EEV
	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	114.000 A @ 190.0 V
	118.000 A @ 230.0 V
	126.000 A @ 208.0 V
	57.000 A @ 380.0 V
	59.000 A @ 460.0 V
Design Code	A

Part Detail

Revision	X
Type	AC
Mech. spec.	12S077
Base	
Status	PRD/A
Elec. spec.	12WGY585
Layout	12LYS077
Eff. date	02-21-2024
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	06-05-2012

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
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	57.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1276M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1475 rpm
	1775 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

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	12S077Y585G1										
CAT.NO.	EM7064T-I										
HP	50//40 NEMA MG-1 PT.5,IP55										
VOLTS	230/460//190/380										
AMPS	118/59//114/57										
RPM	1775//1475				**MOTOR WEIGHT**		645				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6312				
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6311				
FRAME	326T	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF			94.5	**PF**	84		
	55C AMB @ 1.0 SF,60C RISE										

AC Induction Motor Performance Data
Record # 39101
Typical performance - not guaranteed values

Winding: 12WGY585-R001	**Type:** 1276M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			50//40
Volts			230/460//190/380
Full Load Amps			118/59//114/57
R.P.M.			1775//1475
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.5	**Power Factor**	84
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	148 LB-FT
Start Configuration	direct on line
Breakdown Torque	561 LB-FT
Pull-up Torque	236 LB-FT
Locked-rotor Torque	279 LB-FT
Starting Current	475 A
No-load Current	25 A
Line-line Res. @ 25ºC	0.096885 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	67°C
Locked-rotor Power Factor	26
Rotor inertia	10.1 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	68	78	84	85	87	85
Efficiency	90	93.7	94.6	94.7	94.4	93.9	94.5
Speed	1794	1789.1	1784.4	1779.2	1773.7	1767.4	1776
Line amperes	28.6	36.9	47.3	59.1	72.4	86.3	67.1

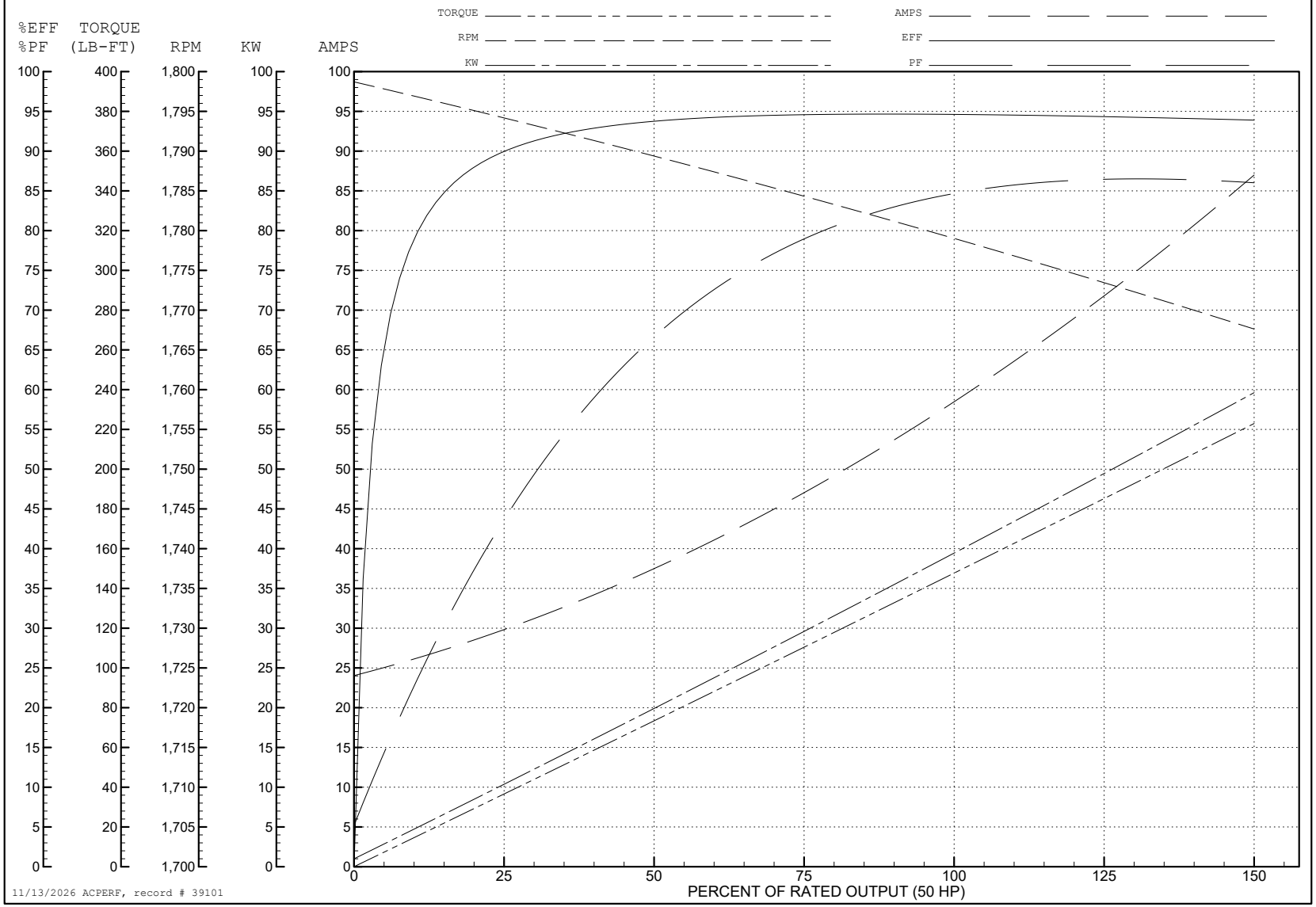
ABB Motors and Mechanical Inc.

WINDING # 12WGY585

Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1779.2 RPM 460 V 1276M

TORQUES(LB-FT): PO=561 PU=236 LR=279 LRA=475



AC Induction Motor Performance Data
Record # 39102
Typical performance - not guaranteed values

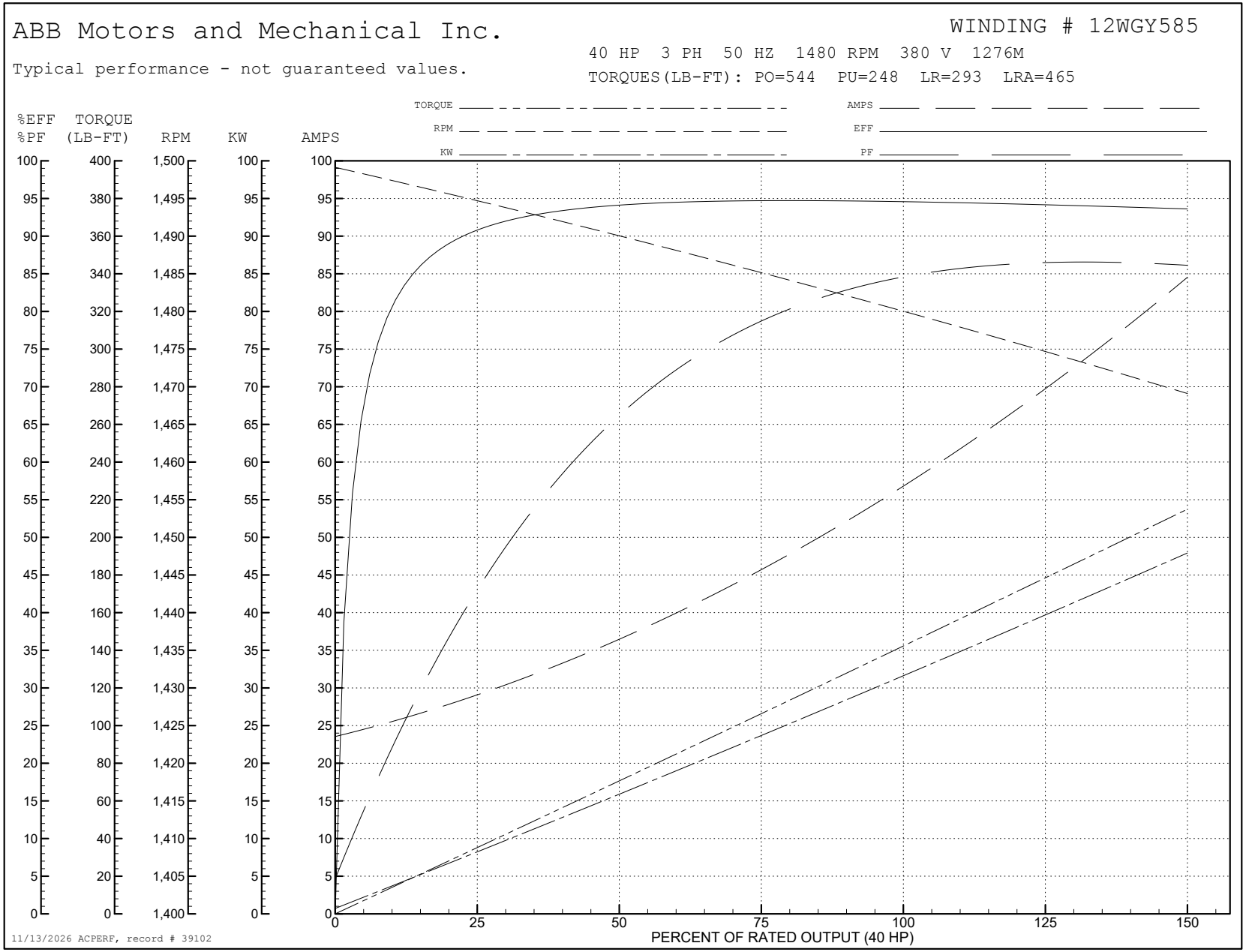
Winding: 12WGY585-R001	**Type:** 1276M	**Enclosure:** XPFC

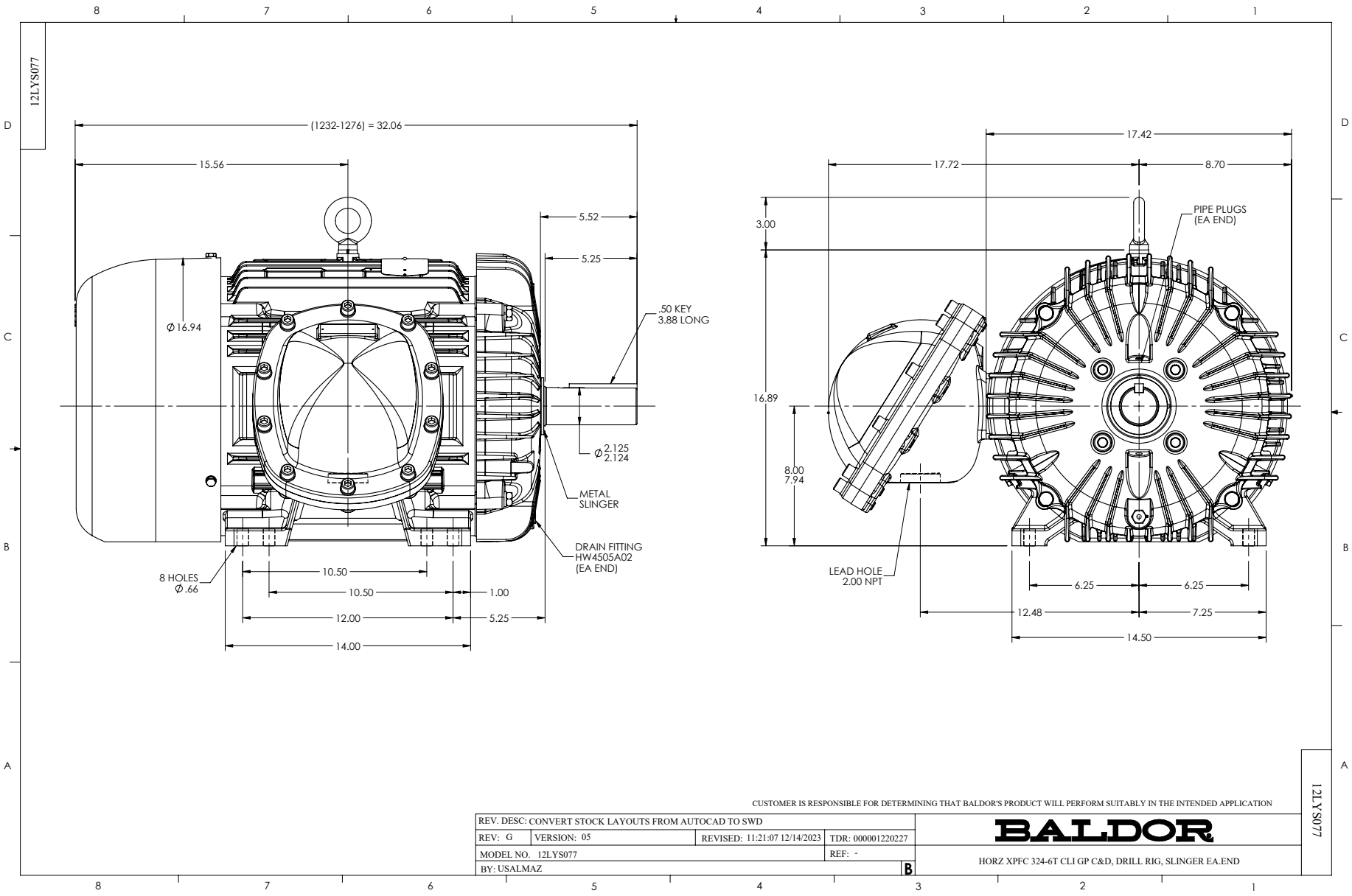
Nameplate Data			
Rated Output (HP)			50//40
Volts			230/460//190/380
Full Load Amps			118/59//114/57
R.P.M.			1775//1475
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.5	**Power Factor**	84
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	142 LB-FT
Start Configuration	direct on line
Breakdown Torque	544 LB-FT
Pull-up Torque	248 LB-FT
Locked-rotor Torque	293 LB-FT
Starting Current	465 A
No-load Current	24.5 A
Line-line Res. @ 25ºC	0.0926 Ω
Temp. Rise @ Rated Load	52°C
Temp. Rise @ S.F. Load	63°C
Locked-rotor Power Factor	29
Rotor inertia	10.1 LB-FT2

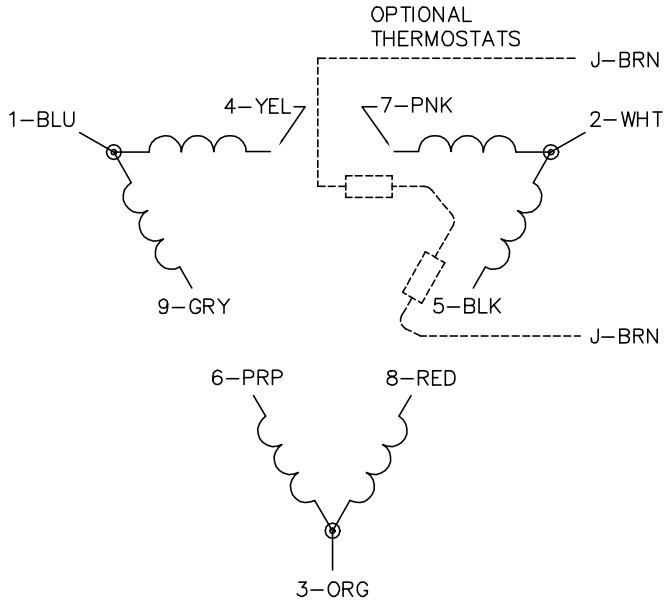
Load Characteristics 380 V, 50 Hz, 40 HP

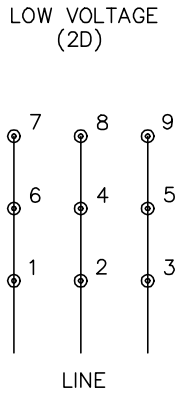
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	84	86	87	85
Efficiency	90.7	94	94.8	94.6	94.3	93.6	94.4
Speed	1495	1490	1485	1480	1475	1469	1477
Line amperes	27.9	35.8	45.9	57.3	70.3	83.8	65.1

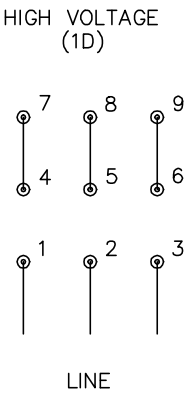

ABB Motors and Mechanical Inc.
WINDING # 12WGY585
40 HP 3 PH 50 HZ 1480 RPM 380 V 1276M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=544 PU=248 LR=293 LRA=465
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (40 HP)
11/13/2026 ACPERF, record # 39102


12LYS077
(1232-1276) = 32.06
15.56
5.52
5.25
.50 KEY
3.88 LONG
Ø16.94
Ø2.125
2.124
METAL
SLINGER
DRAIN FITTING
HW4505A02
(EA END)
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.42
17.72
8.70
PIPE PLUGS
(EA END)
3.00
16.89
8.00
7.94
LEAD HOLE
2.00 NPT
6.25
6.25
12.48
7.25
14.50
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: G
VERSION: 05
REVISED: 11:21:07 12/14/2023
TDR: 000001220227
MODEL NO. 12LYS077
REF: -
BY: USALMAZ
B
BALDOR
HORZ XPFC 324-6T CLI GP C&D, DRILL RIG, SLINGER EA.END
12LYS077

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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