ABB BALDOR RELIANCE

Customer information packet

DRX32544T

50HP, 1775//1475RPM, 3PH, 60HZ, 326T, XP, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XP
Frame	326T
Frame Material	Iron
Frequency	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	1800 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	114.000 A @ 190.0 V
	118.000 A @ 230.0 V
	57.000 A @ 380.0 V
	59.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY585
Layout	12LYG128
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	03-07-2019

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1276M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	84
Product Family	Chemical Process Features
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	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

NP1401XPSLEV											
NO.					**CC**	010A					
S/N					**TEMP CODE**	T3C					
SPEC.	12-0000-0550				**INV.TYPE**	PWM					
CAT.NO.	DRX32544T				**C HP FR**	60	**C HP TO**	90			
HP	50//40				**CT HZ FROM**	6			**CT HZ TO**	60	
VOLTS	230/460//190/380				**VT HZ FROM**	6			**VT HZ TO**	60	
AMPS	118/59//114/57			**MAG CUR**	50/25						
RPM	1775//1475			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	94.5				
SER.F.	1.00	**DES**	A	**SL HZ**	0.83	**WK2**	10.1				
FRAME	326T	**RATING**	40C AMB-CONT								
	55C AMB AT 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE				NEMA MG-1 PT.5,IP55						

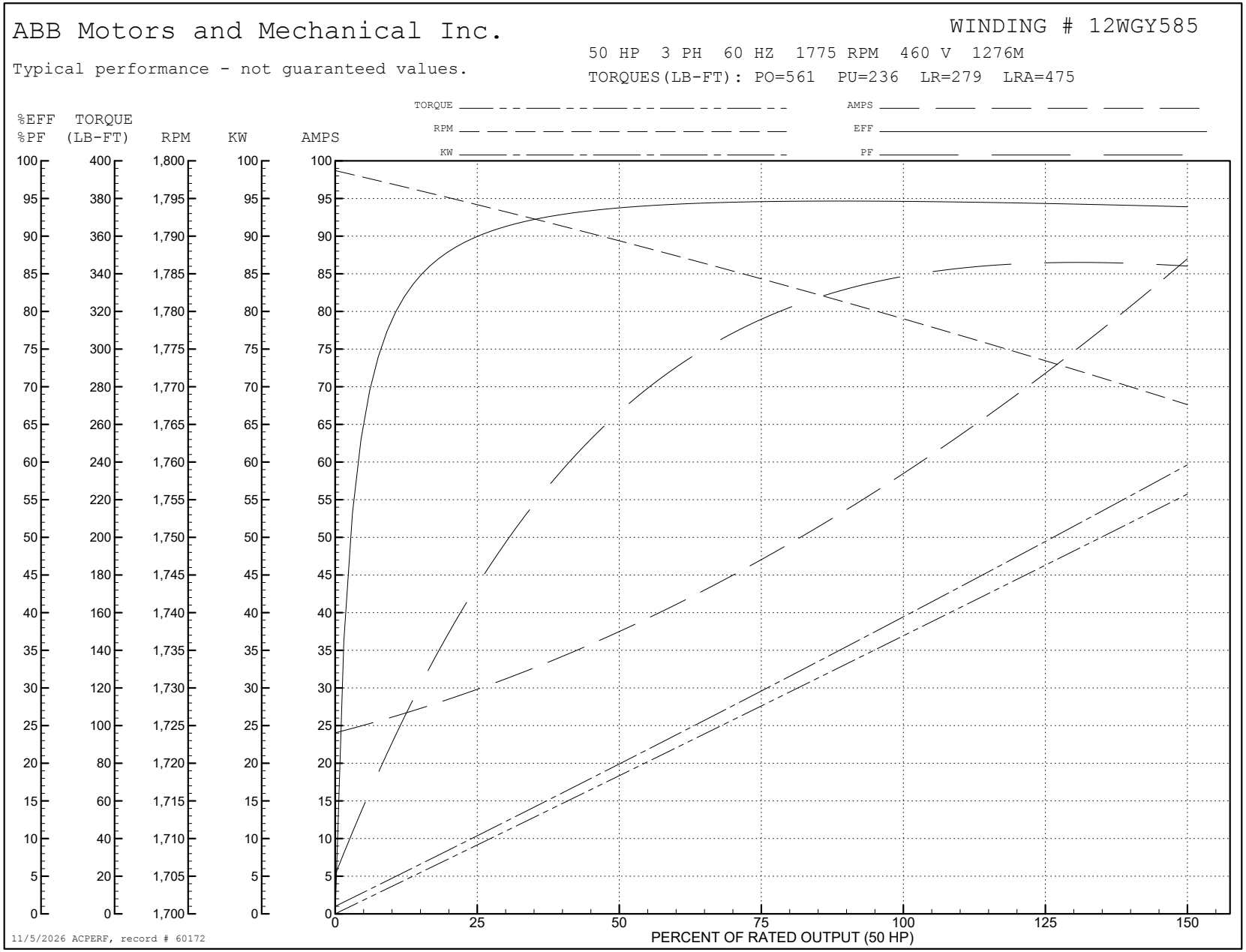
AC Induction Motor Performance Data
Record # 60172
Typical performance - not guaranteed values

Winding: 12WGY585-R008	**Type:** 1276M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	148 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			118/59	**Breakdown Torque**	561 LB-FT
R.P.M.			1775	**Pull-up Torque**	236 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	279 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	475 A
Service Factor (S.F.)			1	**No-load Current**	25 A
NEMA Nom. Eff.	94.5	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.096885 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
				Locked-rotor Power Factor	26.4
				Rotor inertia	10.1 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

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


ABB Motors and Mechanical Inc.
WINDING # 12WGY585
Typical performance - not guaranteed values.
50 HP 3 PH 60 HZ 1775 RPM 460 V 1276M
TORQUES(LB-FT): PO=561 PU=236 LR=279 LRA=475
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (50 HP)
11/5/2026 ACPERF, record # 60172

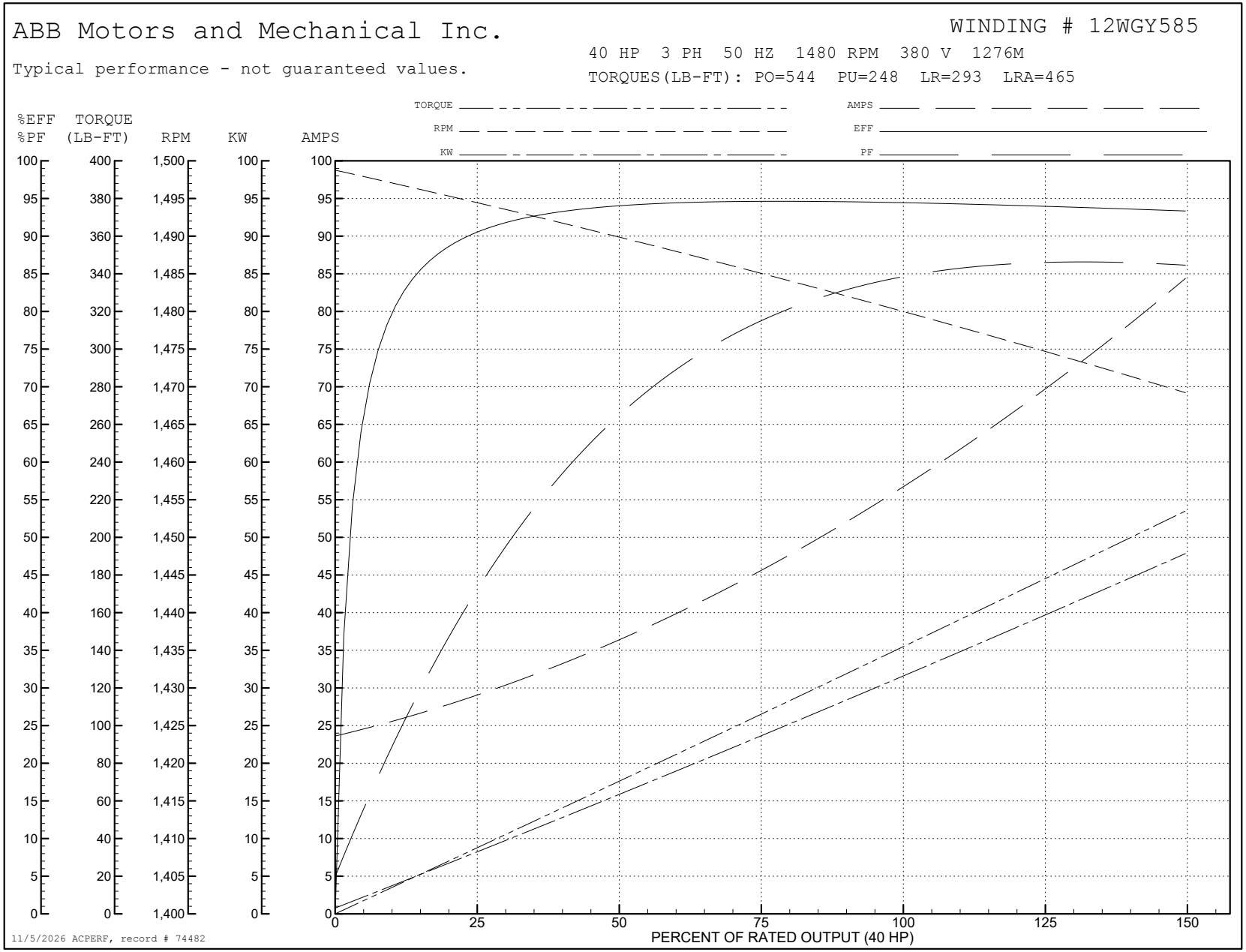
AC Induction Motor Performance Data
Record # 74482
Typical performance - not guaranteed values

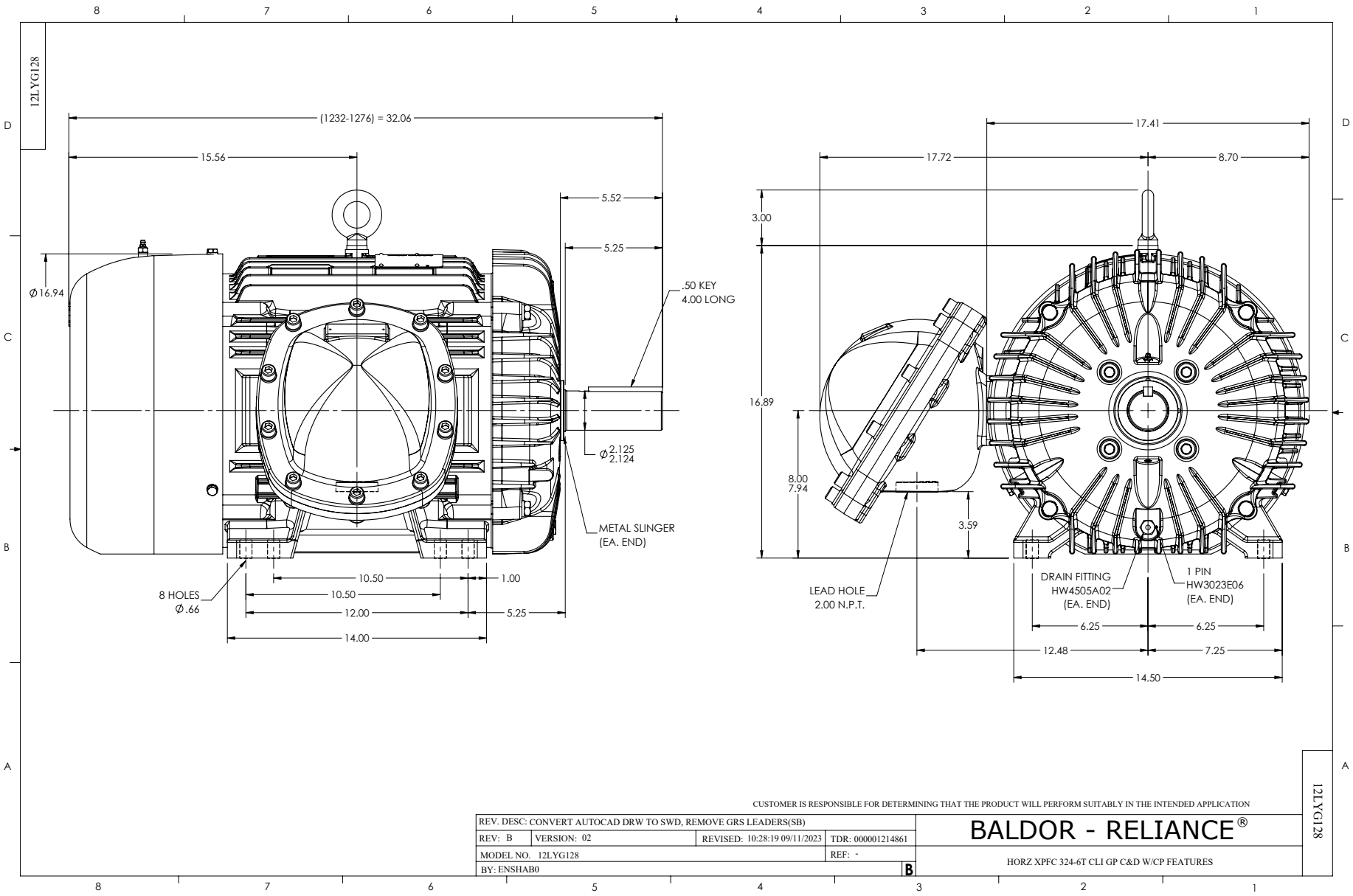
Winding: 12WGY585-R011	**Type:** 1276M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			50//40	**Full Load Torque**	142 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			118/59//114/57	**Breakdown Torque**	544 LB-FT
R.P.M.			1775//1475	**Pull-up Torque**	248 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	293 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	465 A
Service Factor (S.F.)			1	**No-load Current**	24.51 A
NEMA Nom. Eff.	94.5	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.0936 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
S.F. Amps				**Temp. Rise @ S.F. Load**	63°C
				Locked-rotor Power Factor	29.3
				Rotor inertia	10.1 LB-FT2

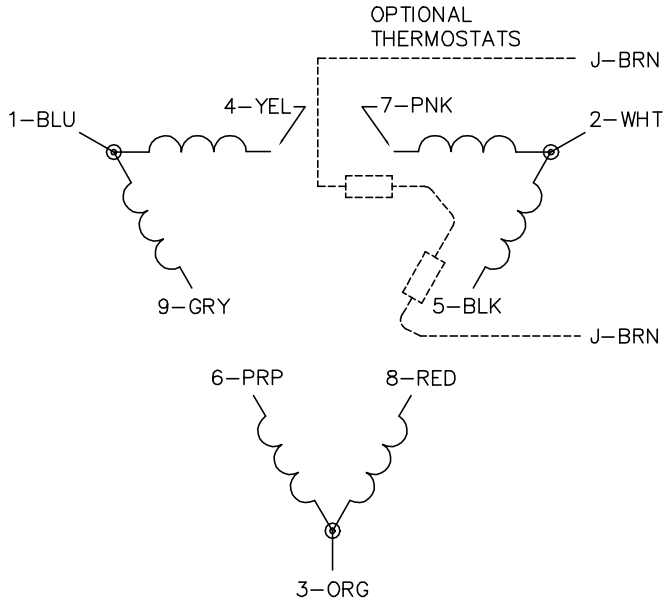
Load Characteristics 380 V, 50 Hz, 40 HP

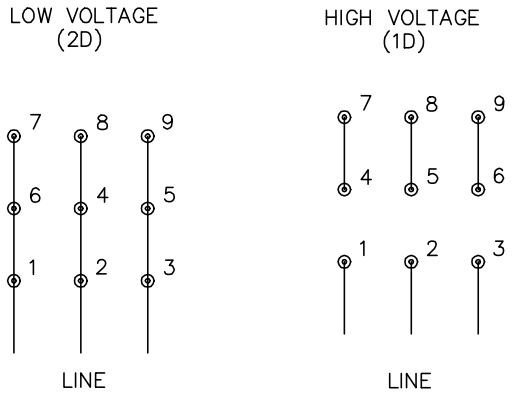
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	67	78	84	86	87
Efficiency	90.3	93.7	94.6	94.3	94.2	93.2
Speed	1494	1490	1485	1480	1475	1469
Line amperes	27.9	35.86	45.89	57.36	70.22	83.76


ABB Motors and Mechanical Inc.
WINDING # 12WGY585
Typical performance - not guaranteed values.
40 HP 3 PH 50 HZ 1480 RPM 380 V 1276M
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)
11/5/2026 ACPERF, record # 74482


12LYG128
(1232-1276) = 32.06
15.56
5.52
5.25
Ø16.94
.50 KEY
4.00 LONG
Ø2.125
2.124
METAL SLINGER
(EA. END)
8 HOLES
Ø.66
10.50
1.00
10.50
12.00
5.25
14.00
17.41
17.72
8.70
3.00
16.89
8.00
7.94
3.59
LEAD HOLE
2.00 N.P.T.
DRAIN FITTING
HW4505A02
(EA. END)
1 PIN
HW3023E06
(EA. END)
6.25
6.25
12.48
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD, REMOVE GRS LEADERS(SB)
REV: B
VERSION: 02
REVISED: 10:28:19 09/11/2023
TDR: 000001214861
MODEL NO. 12LYG128
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HORZ XPFC 324-6T CLI GP C&D W/CP FEATURES
12LYG128

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