ABB BALDOR RELIANCE

Customer information packet

XM322562T

25//20HP, 1180//985RPM, 3PH, 60//50HZ, 324T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	324T
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	25.000 HP @ 60 HZ
	20.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	31.000 A @ 380.0 V
	32.000 A @ 460.0 V
	62.000 A @ 190.0 V
	63.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYL018
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	03-19-2021

Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 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	1500 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	32.00 IN
Power Factor	79
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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.	12-0000-2081			**INV.TYPE**	PWM						
CAT.NO.	XM322562T			**C HP FR**	60	**C HP TO**	90				
HP	25//20			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	63/32//62/31			**MAG CUR**	28/14						
RPM	1180//985			**MX RPM**	1500						
HZ	60//50	**PH**	3	**CL**	B	**NOM.EFF.**	93				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	11.5				
FRAME	324T	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data
Record # 34364
Typical performance - not guaranteed values

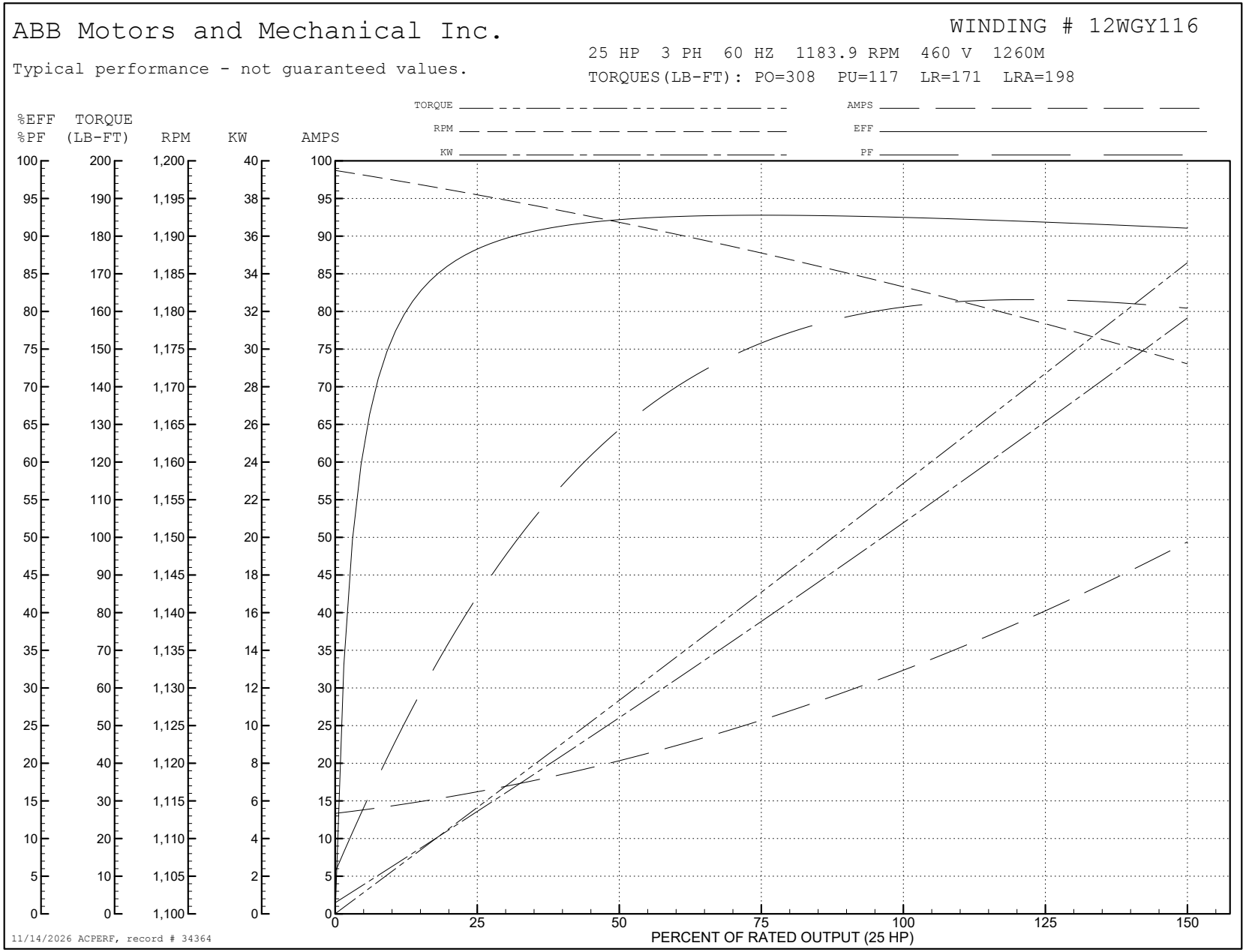
Winding: 12WGY116-R003	**Type:** 1260M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			63/32//62/31
R.P.M.			1180//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	93	**Power Factor**	79
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	111 LB-FT
Start Configuration	direct on line
Breakdown Torque	308 LB-FT
Pull-up Torque	117 LB-FT
Locked-rotor Torque	171 LB-FT
Starting Current	198 A
No-load Current	13.8 A
Line-line Res. @ 25ºC	0.27033 Ω
Temp. Rise @ Rated Load	46°C
Locked-rotor Power Factor	28
Rotor inertia	11.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	65	75	79	81	81
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1


ABB Motors and Mechanical Inc.
WINDING # 12WGY116
Typical performance - not guaranteed values.
25 HP 3 PH 60 HZ 1183.9 RPM 460 V 1260M
TORQUES(LB-FT): PO=308 PU=117 LR=171 LRA=198
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/14/2026 ACPERF, record # 34364

AC Induction Motor Performance Data
Record # 34365
Typical performance - not guaranteed values

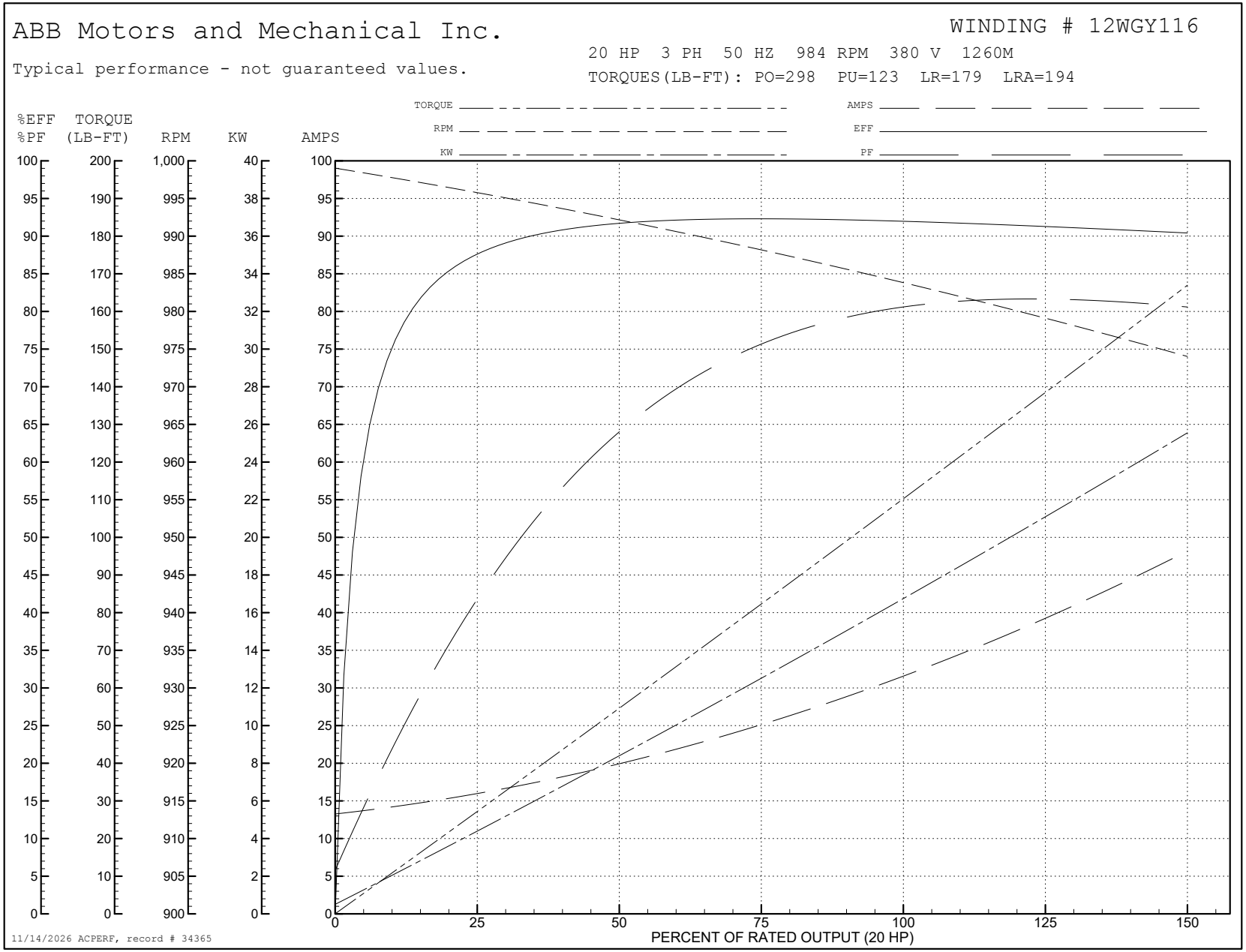
Winding: 12WGY116-R003	**Type:** 1260M	**Enclosure:** XPFC

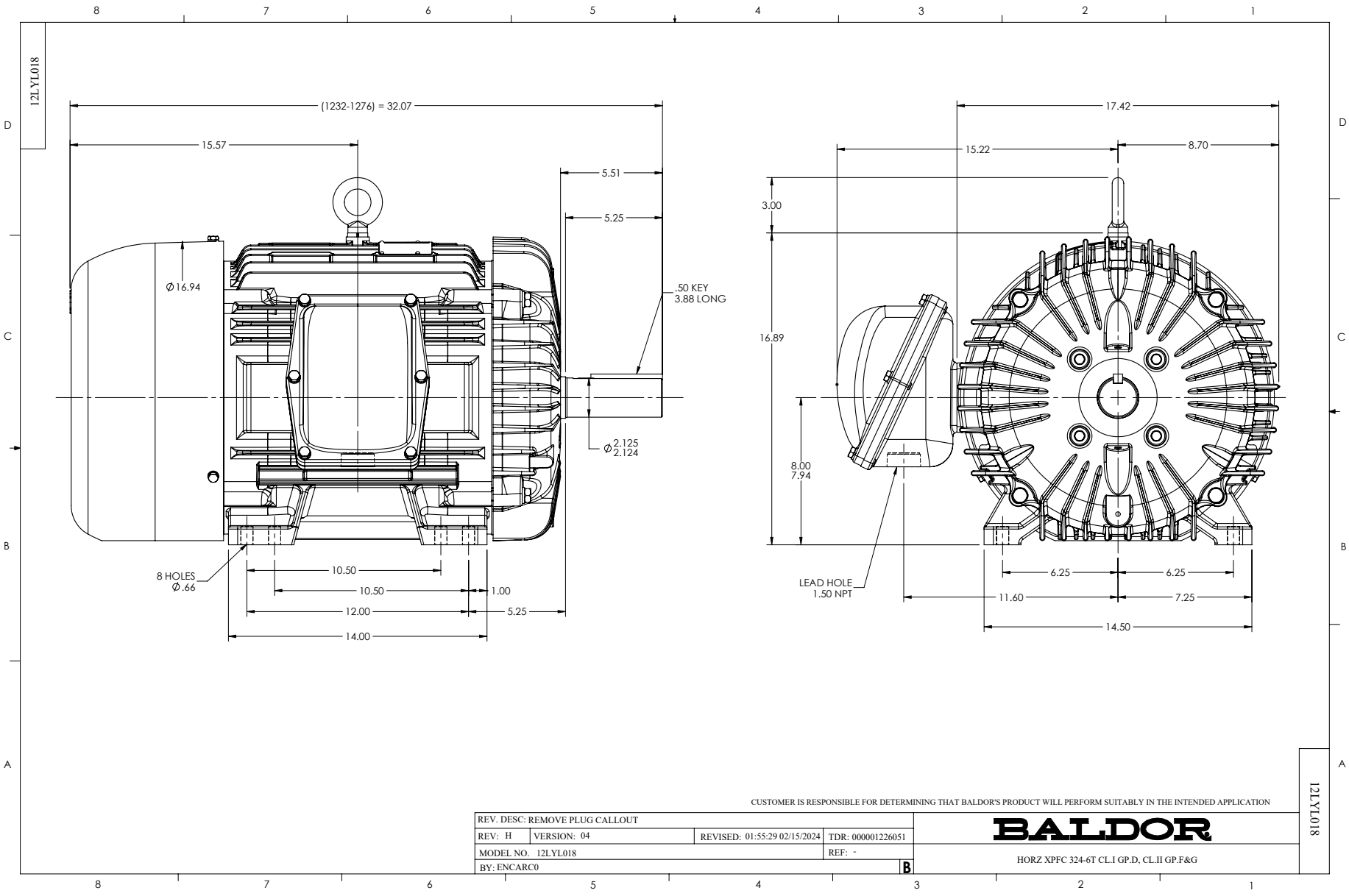
Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			63/32//62/31
R.P.M.			1180//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	93	**Power Factor**	79
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	107 LB-FT
Start Configuration	direct on line
Breakdown Torque	298 LB-FT
Pull-up Torque	123 LB-FT
Locked-rotor Torque	179 LB-FT
Starting Current	194 A
No-load Current	13.7 A
Line-line Res. @ 25ºC	0.274 Ω
Temp. Rise @ Rated Load	44°C
Locked-rotor Power Factor	32
Rotor inertia	11.5 LB-FT2

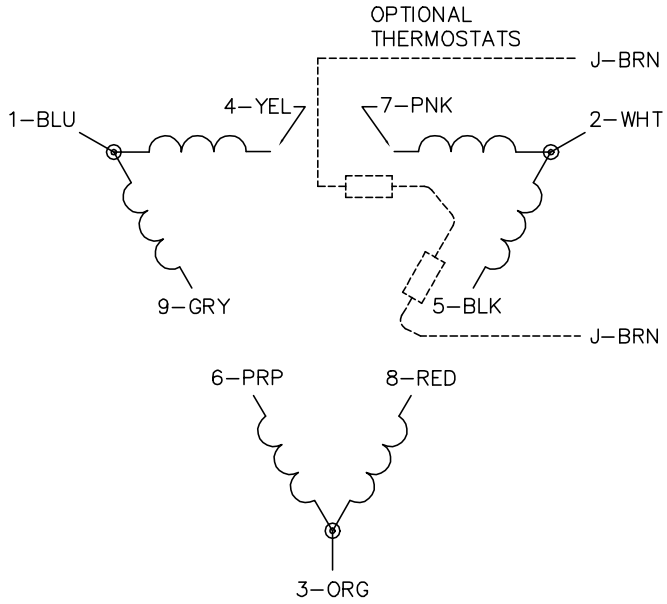
Load Characteristics 380 V, 50 Hz, 20 HP

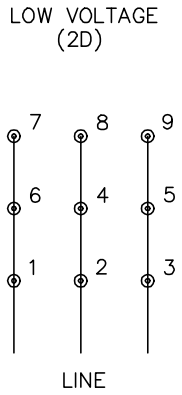
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	65	75	79	81	81
Efficiency	86.4	91.2	92.2	92.3	91.6	90.3
Speed	996	992	989	984	980	974
Line amperes	15.4	19.3	24.8	31.1	38.2	47.9

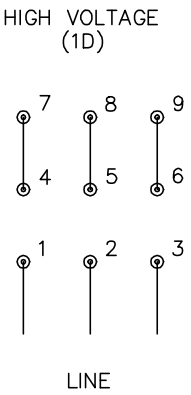

ABB Motors and Mechanical Inc.
WINDING # 12WGY116
Typical performance - not guaranteed values.
20 HP 3 PH 50 HZ 984 RPM 380 V 1260M
TORQUES(LB-FT): PO=298 PU=123 LR=179 LRA=194
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/14/2026 ACPERF, record # 34365


12LYL018
(1232-1276) = 32.07
15.57
5.51
5.25
Ø16.94
.50 KEY
3.88 LONG
Ø 2.125
2.124
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.42
15.22
8.70
3.00
16.89
8.00
7.94
LEAD HOLE
1.50 NPT
6.25
6.25
11.60
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE PLUG CALLOUT
REV: H
VERSION: 04
REVISED: 01:55:29 02/15/2024
TDR: 000001226051
MODEL NO. 12LYL018
REF: -
BY: ENCARC0
B
BALDOR
HORZ XPFC 324-6T CL.I GP.D, CL.II GP.F&G
12LYL018

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