ABB BALDOR RELIANCE

Customer information packet

VDRX282544T

25HP, 1775//1475RPM, 3PH, 60/50HZ, 284TC, XPF
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	284TC
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	20.000 HP @ 50 HZ
	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	64.000 A @ 208.0 V
	62.000 A @ 230.0 V
	60.000 A @ 190.0 V
	31.000 A @ 460.0 V
	30.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYG292
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	06-06-2019

Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 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	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.67 IN
Power Factor	81
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 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.	10-0000-0850			**INV.TYPE**	PWM						
CAT.NO.	VDRX282544T			**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	62/31//60/30		**MAG CUR**	28/14							
RPM	1775//1475		**MX RPM**	2700							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93.6				
SER.F.	1.00	**DES**	A	**SL HZ**	0.83	**WK2**	4.13				
FRAME	284TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

AC Induction Motor Performance Data
Record # 67462
Typical performance - not guaranteed values

Winding: 10WGZ651-R004	**Type:** 1054M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	74.02 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			62/31	**Breakdown Torque**	262 LB-FT
R.P.M.			1775	**Pull-up Torque**	118 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	142 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	223 A
Service Factor (S.F.)			1	**No-load Current**	13.6 A
NEMA Nom. Eff.	93.6	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.2345 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
				Locked-rotor Power Factor	30.6

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	65	76	81	84	85
Efficiency	88.3	92.8	93.9	94	93.7	93.1
Speed	1794.1	1789.3	1783.5	1777.8	1770.8	1763.8
Line amperes	15.3	19.3	24.6	30.6	37.2	44.5

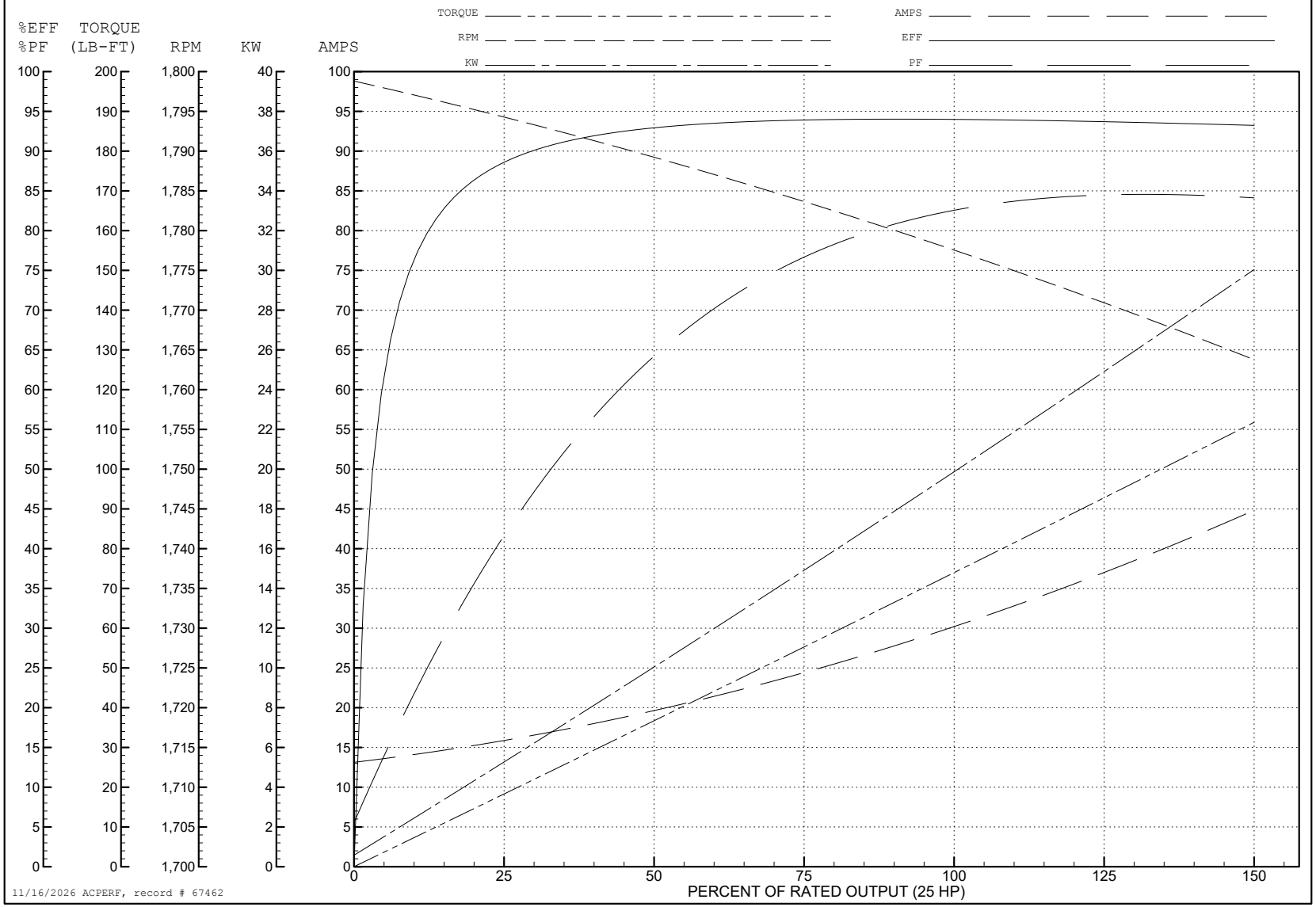
ABB Motors and Mechanical Inc.

WINDING # 10WGZ651

25 HP 3 PH 60 HZ 1775 RPM 460 V 1054M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=262 PU=118 LR=142 LRA=223



AC Induction Motor Performance Data
Record # 74484
Typical performance - not guaranteed values

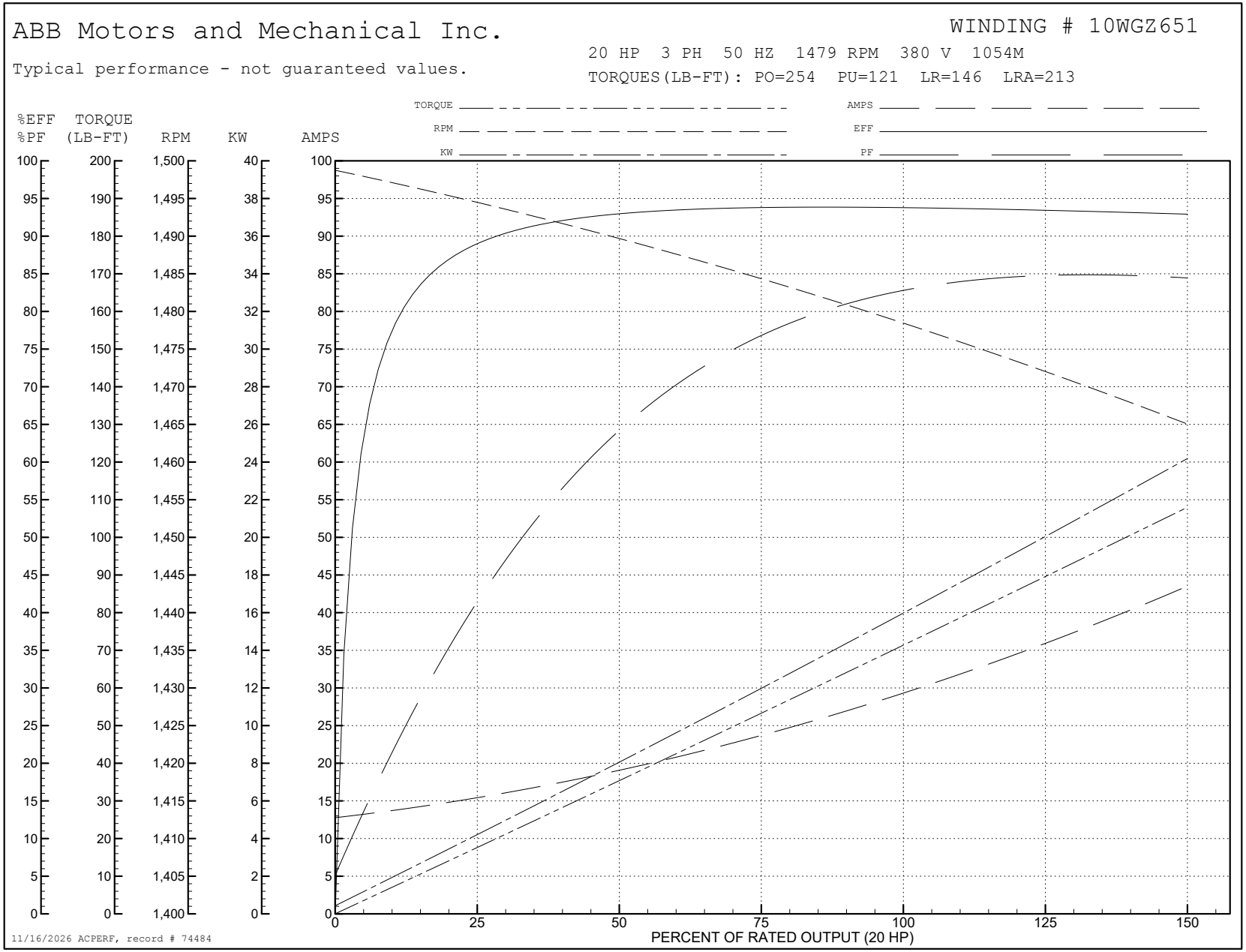
Winding: 10WGZ651-R024	**Type:** 1054M	**Enclosure:** XPFC

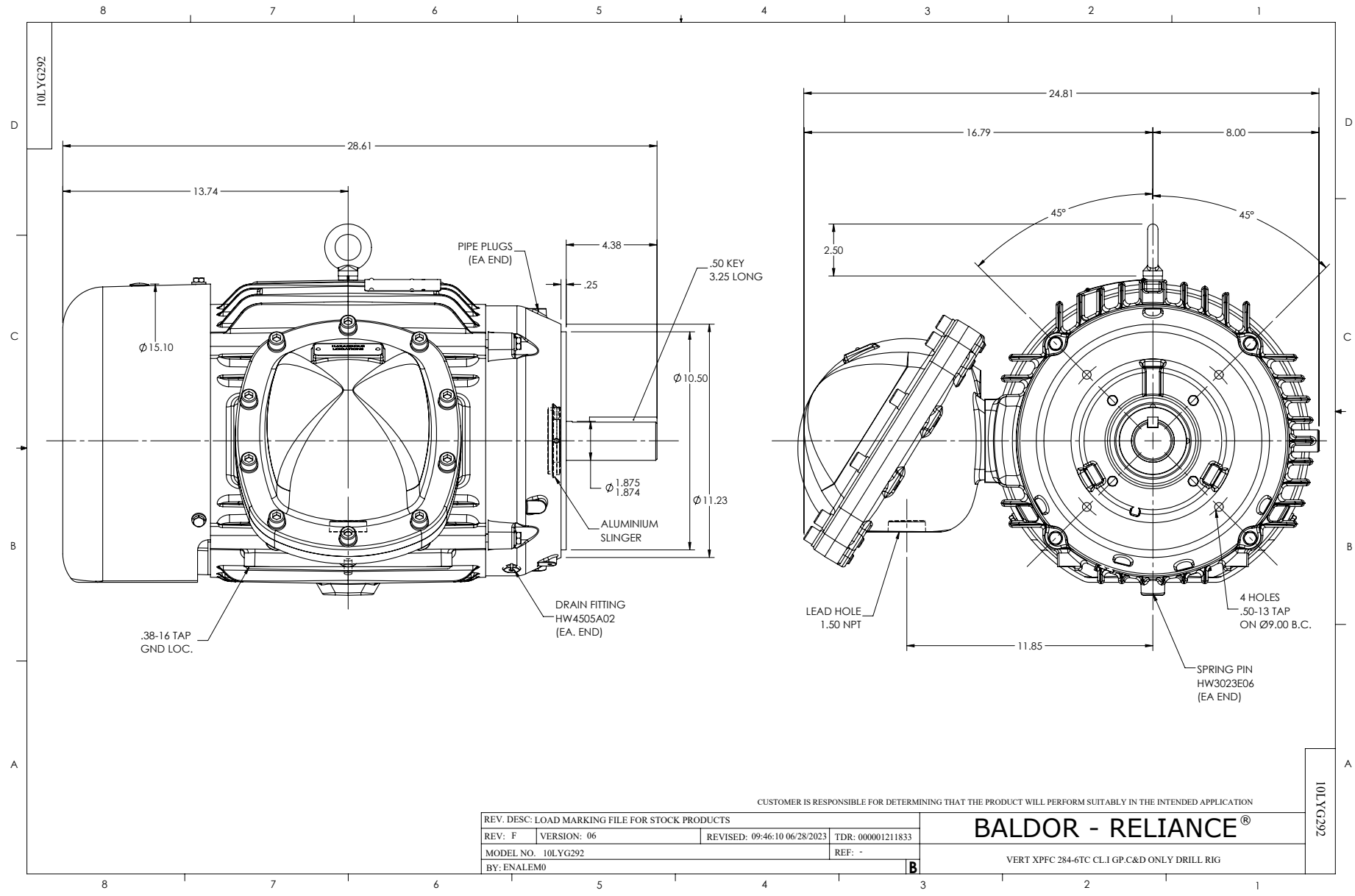
Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			62/31//60/30
R.P.M.			1775//1475
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	93.6	**Power Factor**	81
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	71.24 LB-FT
Start Configuration	direct on line
Breakdown Torque	254 LB-FT
Pull-up Torque	121 LB-FT
Locked-rotor Torque	146 LB-FT
Starting Current	213 A
No-load Current	13.24 A
Line-line Res. @ 25ºC	0.231 Ω
Temp. Rise @ Rated Load	48°C
Temp. Rise @ S.F. Load	58°C
Locked-rotor Power Factor	33.9
Rotor inertia	4.31 LB-FT2

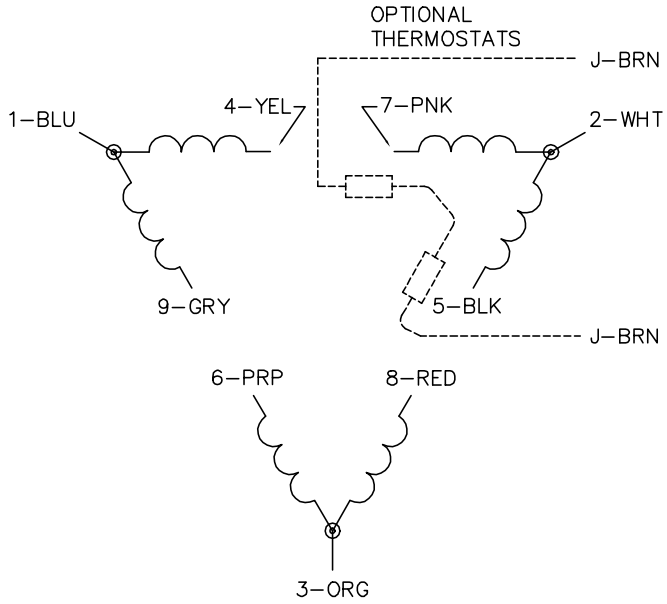
Load Characteristics 380 V, 50 Hz, 20 HP

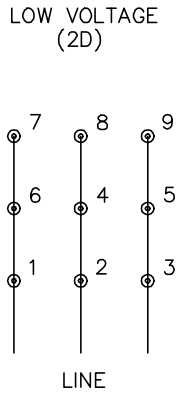
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	66	76	82	84	85
Efficiency	88.8	93	93.8	93.8	93.3	92.9
Speed	1494	1490	1484	1479	1472	1465
Line amperes	14.85	18.69	23.83	29.65	36.06	43.17

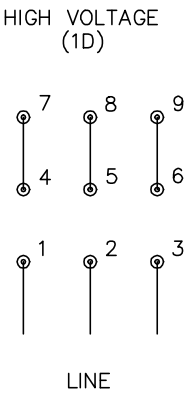

ABB Motors and Mechanical Inc.
WINDING # 10WGZ651
20 HP 3 PH 50 HZ 1479 RPM 380 V 1054M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=254 PU=121 LR=146 LRA=213
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/16/2026 ACPERF, record # 74484


10LYG292
28.61
13.74
PIPE PLUGS
(EA END)
4.38
.25
.50 KEY
3.25 LONG
Ø15.10
Ø10.50
Ø1.875
1.874
Ø11.23
ALUMINIUM
SLINGER
DRAIN FITTING
HW4505A02
(EA. END)
.38-16 TAP
GND LOC.
24.81
16.79
8.00
45°
45°
2.50
LEAD HOLE
1.50 NPT
11.85
4 HOLES
.50-13 TAP
ON Ø9.00 B.C.
SPRING PIN
HW3023E06
(EA END)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: F
VERSION: 06
REVISED: 09:46:10 06/28/2023
TDR: 000001211833
MODEL NO. 10LYG292
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT XPFC 284-6TC CL.I GP.C&D ONLY DRILL RIG
10LYG292

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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