

ABB BALDOR RELIANCE III

Customer information packet

EM7058T-I

25//20 NEMA MG-1 PT.5, IP55HP, 1775//14

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	284T
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 CSA 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	62.000 A @ 230.0 V 64.000 A @ 208.0 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	P
Type	AC
Mech. spec.	10E950
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYE950
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	10-23-2017

Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
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	30.0 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 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	81
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	1.875 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.	10E950Z651G1											
CAT.NO.	EM7058T-I											
HP	25//20 NEMA MG-1 PT.5,IP55											
VOLTS	230/460//190/380											
AMPS	62/31//60/30											
RPM	1775//1475						MOTOR WEIGHT			506		
HERTZ	60//50		PH	3	CL	F	DE BRG	6311				
SER.F.	1.15		DES	A	CODE	J	ODE BRG			6309		
FRAME	284T		GREASE			POLYREX EM						
RATING	40C AMB-CONT											
						NEMA-NOM-EFF			93.6		PF	81
55C AMB @ 1.0 SF 60C RISE												

AC Induction Motor Performance Data

Record # 67490

Typical performance - not guaranteed values

Winding: 10WGZ651-R010				Type: 1054M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25//20		Full Load Torque		74.02 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		62/31//60/30		Breakdown Torque		262 LB-FT	
R.P.M.		1775//1475		Pull-up Torque		118 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1.15		No-load Current		13.6 A	
NEMA Nom. Eff.		93.6		Power Factor		81	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		51°C	
S.F. Amps				Temp. Rise @ S.F. Load		61°C	
				Locked-rotor Power Factor		30.6	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	84	85	83
Efficiency	88.3	92.8	93.9	94	93.7	93.1	93.8
Speed	1794.1	1789.3	1783.5	1777.8	1770.8	1763.8	1774
Line amperes	15.3	19.3	24.6	30.6	37.2	44.5	34.6

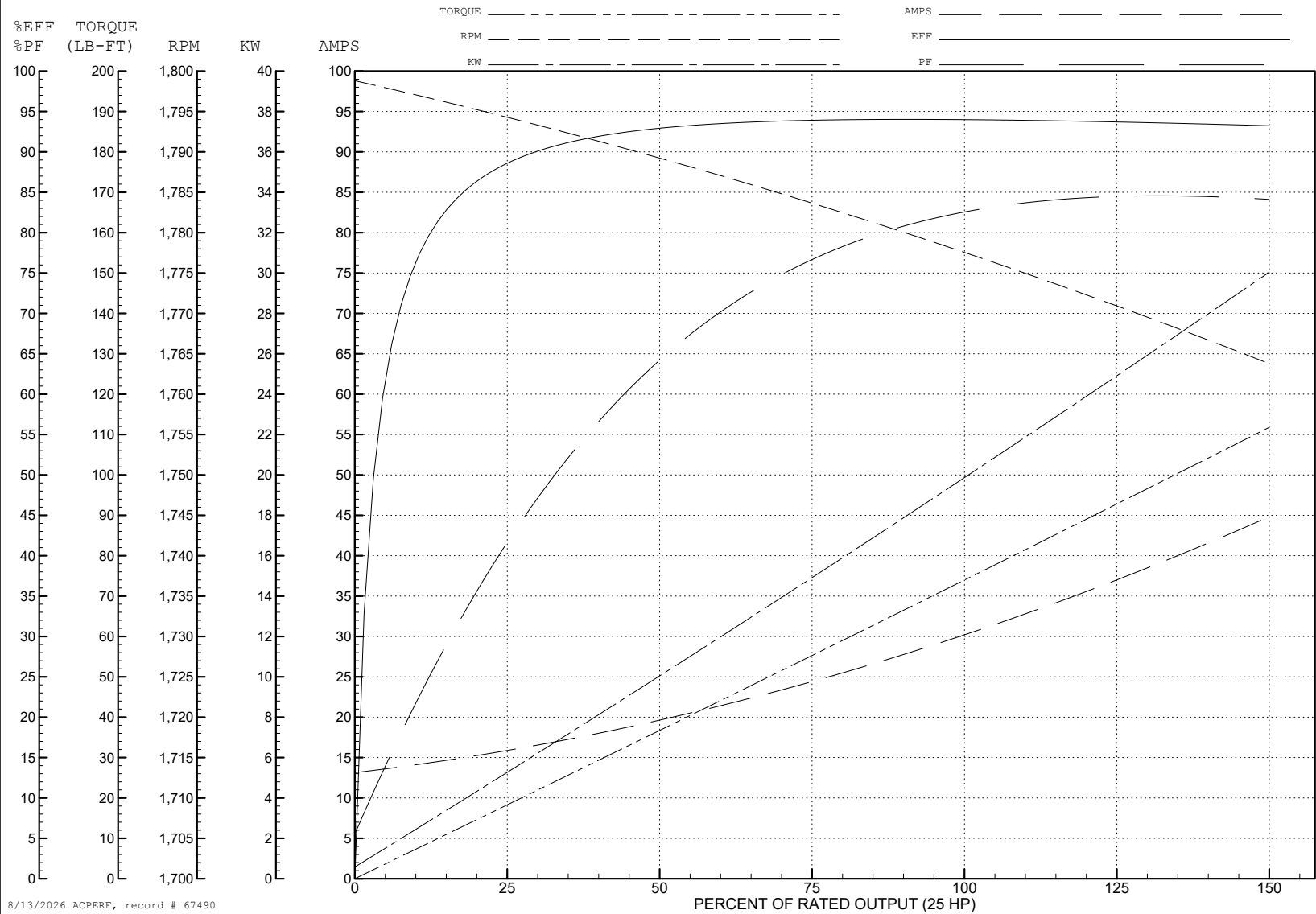
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WINDING # 10WGZ651

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1777.8 RPM 460 V 1054M

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



AC Induction Motor Performance Data

Record # 67491

Typical performance - not guaranteed values

Winding: 10WGZ651-R010		Type: 1054M	Enclosure: XPFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	25//20	Full Load Torque	71.24 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	62/31//60/30	Breakdown Torque	254 LB-FT
R.P.M.	1775//1475	Pull-up Torque	121 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	146 LB-FT
NEMA Design Code	A KVA Code	Starting Current	213 A
Service Factor (S.F.)	1.15	No-load Current	13.24 A
NEMA Nom. Eff.	93.6 Power Factor	Line-line Res. @ 25°C	0.229 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	48°C
S.F. Amps		Temp. Rise @ S.F. Load	58°C
		Locked-rotor Power Factor	33.9
		Rotor inertia	4.31 LB-FT ²

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	66	76	82	84	85	83
Efficiency	88.8	93	93.8	93.8	93.3	93	93.5
Speed	1494	1490	1484	1479	1472	1465	1475
Line amperes	14.85	18.69	23.83	29.65	36.06	43.14	33.5

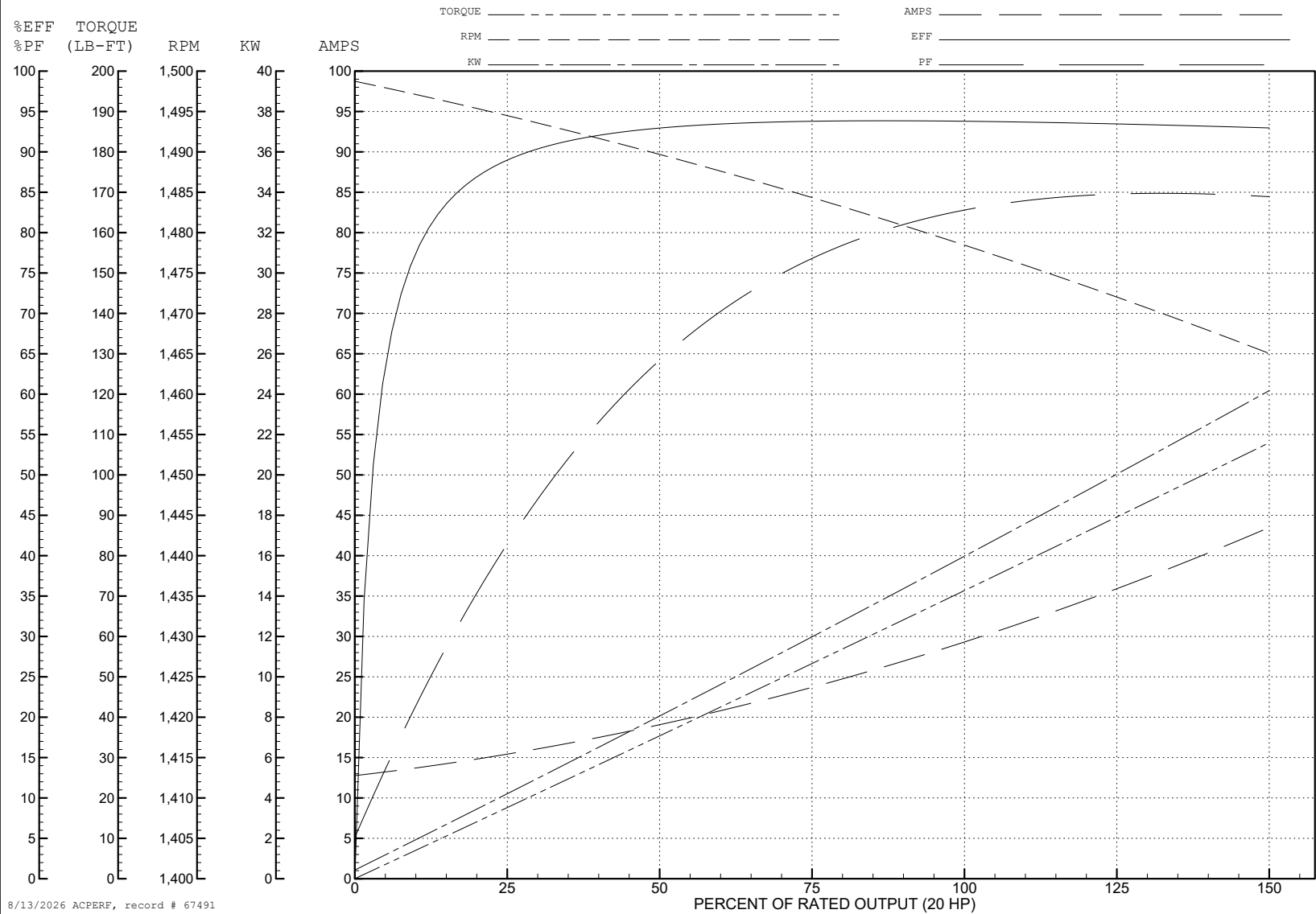
ABB Motors and Mechanical Inc.

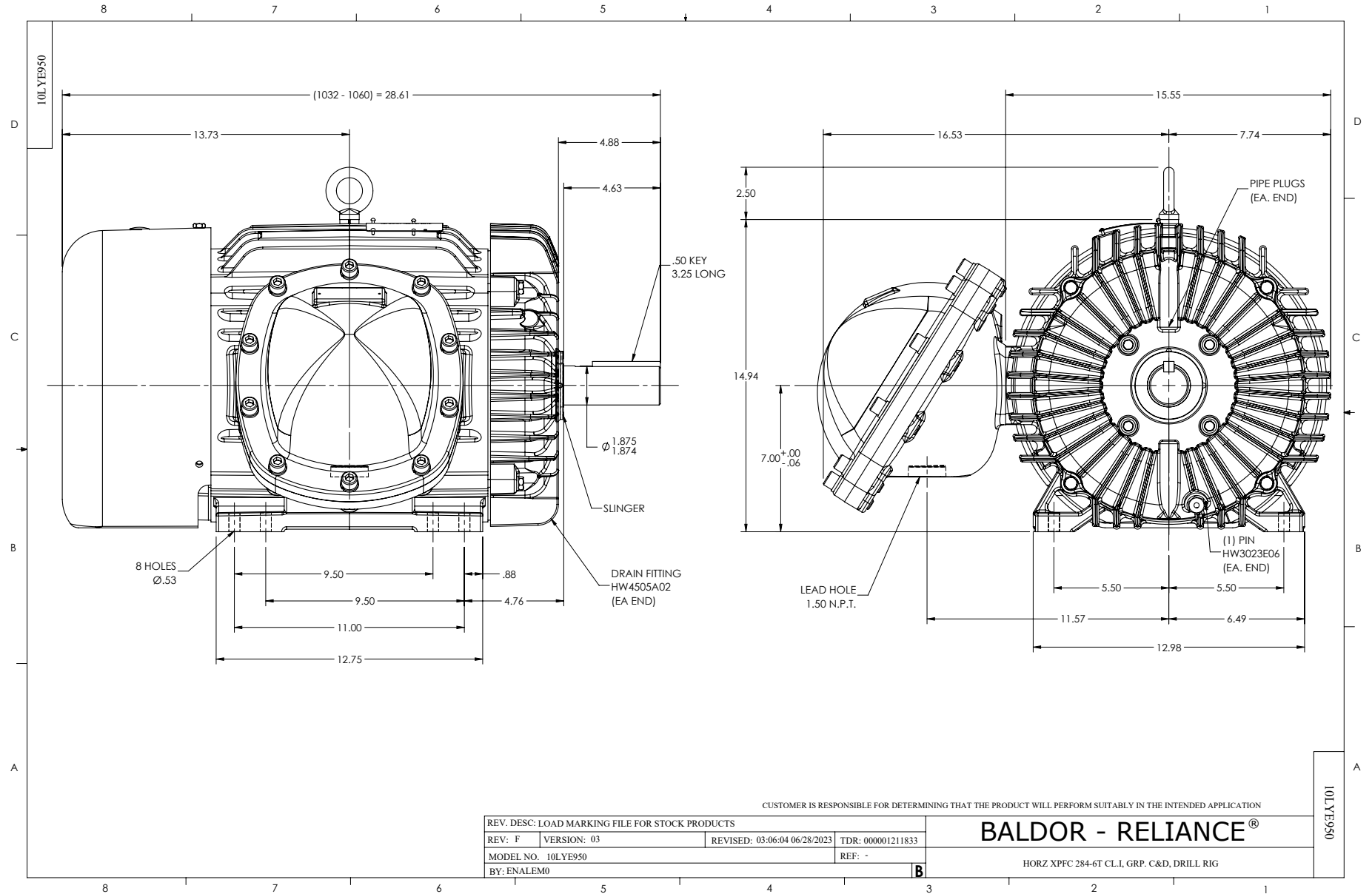
WINDING # 10WGZ651

Typical performance - not guaranteed values.

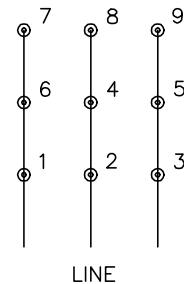
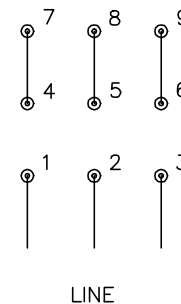
20 HP 3 PH 50 HZ 1479 RPM 380 V 1054M

TORQUES (LB-FT): PO=254 PU=121 LR=146 LRA=213





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1