

ABB BALDOR RELIANCE III

Customer information packet

CPX282526T

38M 2P XPFC HOR 284TSY TSTAT CP FEAT INV

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	284TSY
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	CSA EEV UL
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	63.000 A @ 208.0 V 57.000 A @ 230.0 V 56.000 A @ 190.0 V 28.500 A @ 460.0 V 28.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	10K316
Base	
Status	PRD/A
Elec. spec.	10WGY777
Layout	10LYK316
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	04-25-2019

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1038M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.24 IN
Power Factor	89
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	Shaft Slinger
Speed	2930 rpm
	3520 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

NP2033XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	10K316Y777G1					INV.TYPE		PWM			
CAT.NO.	CPX282526T					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	57/28.5//56/28				MAG CUR	16.2/8.1					
RPM	3520//2930				MX RPM	5400					
HZ	60//50		PH	3	CL	F	NOM.EFF.	91.7			
SER.F.	1.00		DES	B	SL HZ	1.3	WK2	1.63			
FRAME	284TSY		RATING		40C AMB-CONT						
BLANK	55C AMB @ 1.00 SF, 60C RISE										
	1.15SF ON SINEWAVE					NEMA MG-1 PT.5,IP55					

AC Induction Motor Performance Data

Record # 31465

Typical performance - not guaranteed values

Winding: 10WGY777-R001			Type: 1038M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25//20		Full Load Torque		37.4 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		57/28.5//56/28		Breakdown Torque		144 LB-FT		
R.P.M.		3520//2930		Pull-up Torque		50.1 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		64.7 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		177 A
Service Factor (S.F.)		1		No-load Current		8.07 A		
NEMA Nom. Eff.		91.7	Power Factor		89	Line-line Res. @ 25°C		0.294 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		57°C
						Locked-rotor Power Factor		24.1
						Rotor inertia		1.63 LB-FT ²

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	61	80	87	89	90	90
Efficiency	87.5	91.5	91.7	91.9	91.1	90
Speed	3576	3561	3543	3522	3499	3474
Line amperes	10.6	15.7	21.7	28.6	35.6	43.1

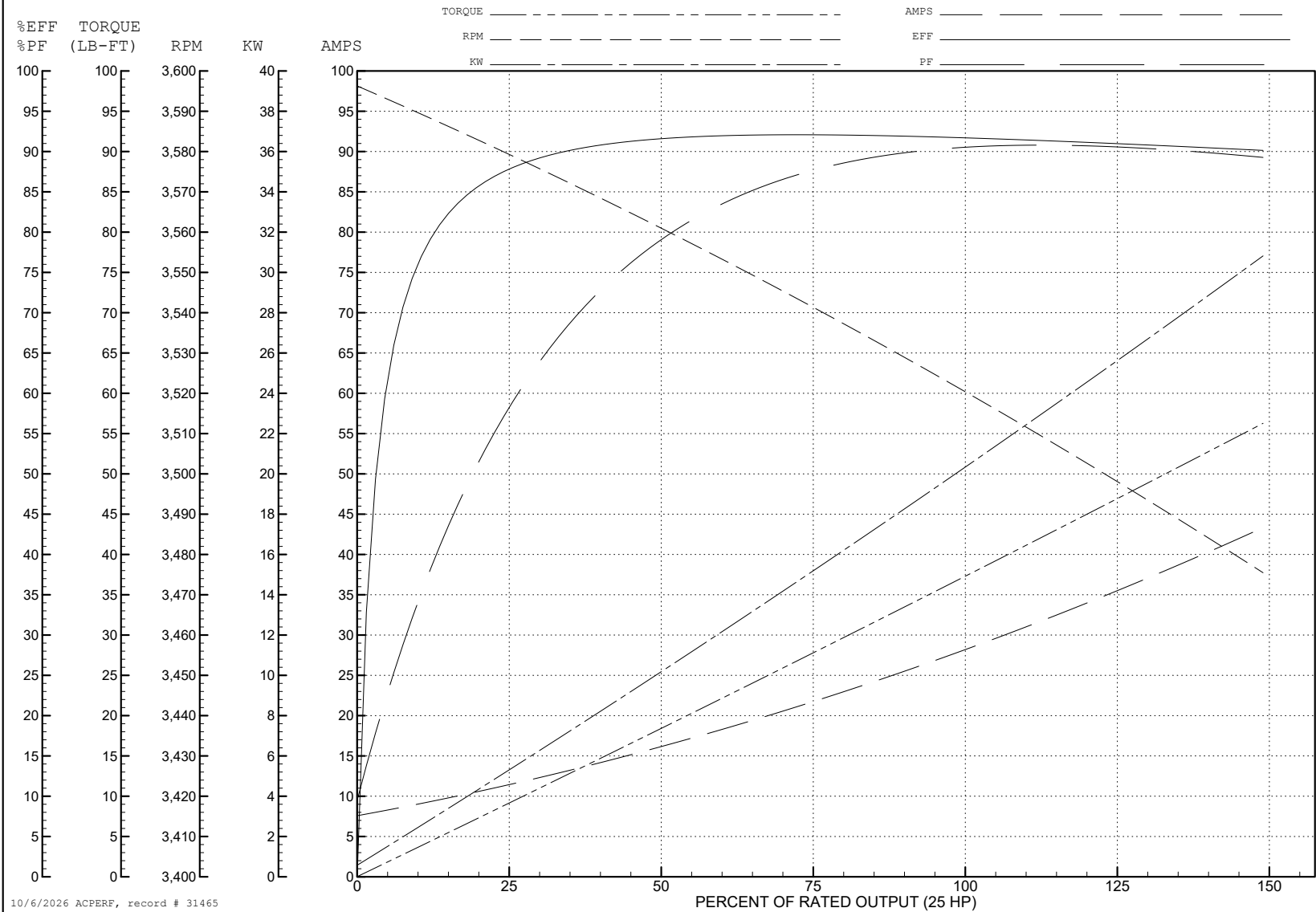
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WINDING # 10WGY777

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3522 RPM 460 V 1038M

TORQUES (LB-FT): PO=144 PU=50.1 LR=64.7 LRA=177



AC Induction Motor Performance Data

Record # 31466

Typical performance - not guaranteed values

Winding: 10WGY777-R001				Type: 1038M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		25//20		Full Load Torque		36 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		57/28.5//56/28		Breakdown Torque		139 LB-FT	
R.P.M.		3520//2930		Pull-up Torque		53.4 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		B		KVA Code		G	
Service Factor (S.F.)		1		No-load Current		7.96 A	
NEMA Nom. Eff.		91.7		Power Factor		89	
Rating - Duty		40C		AMB-CONT			
				Temp. Rise @ Rated Load		55°C	
				Locked-rotor Power Factor		27.2	
				Rotor inertia		1.63 LB-FT2	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	61	80	87	90	90	90
Efficiency	85.6	90.2	90.8	91	90	89
Speed	2978	2963	2946	2926	2905	2881
Line amperes	10.4	15.3	21.2	27.9	34.8	42.2

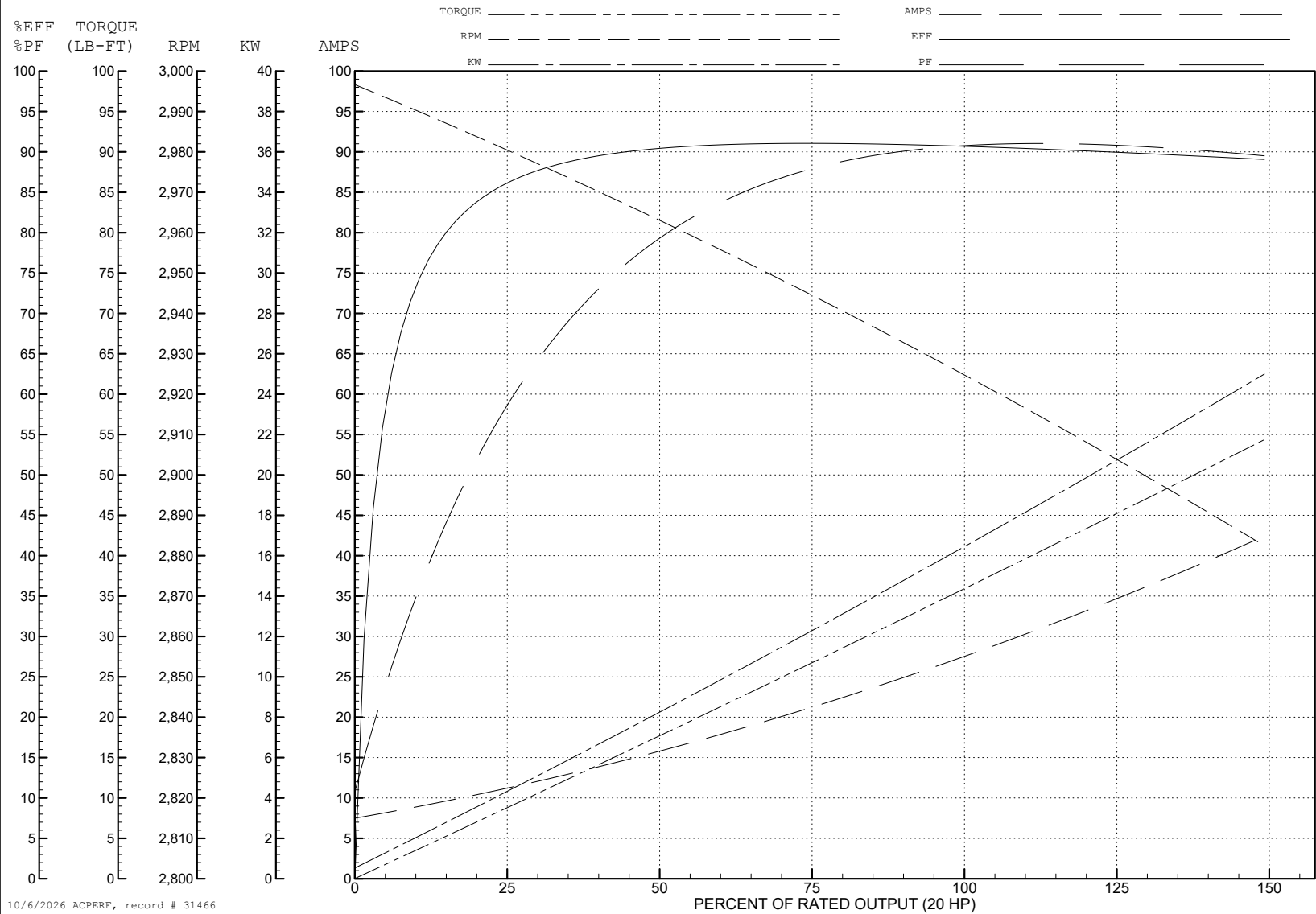
ABB Motors and Mechanical Inc.

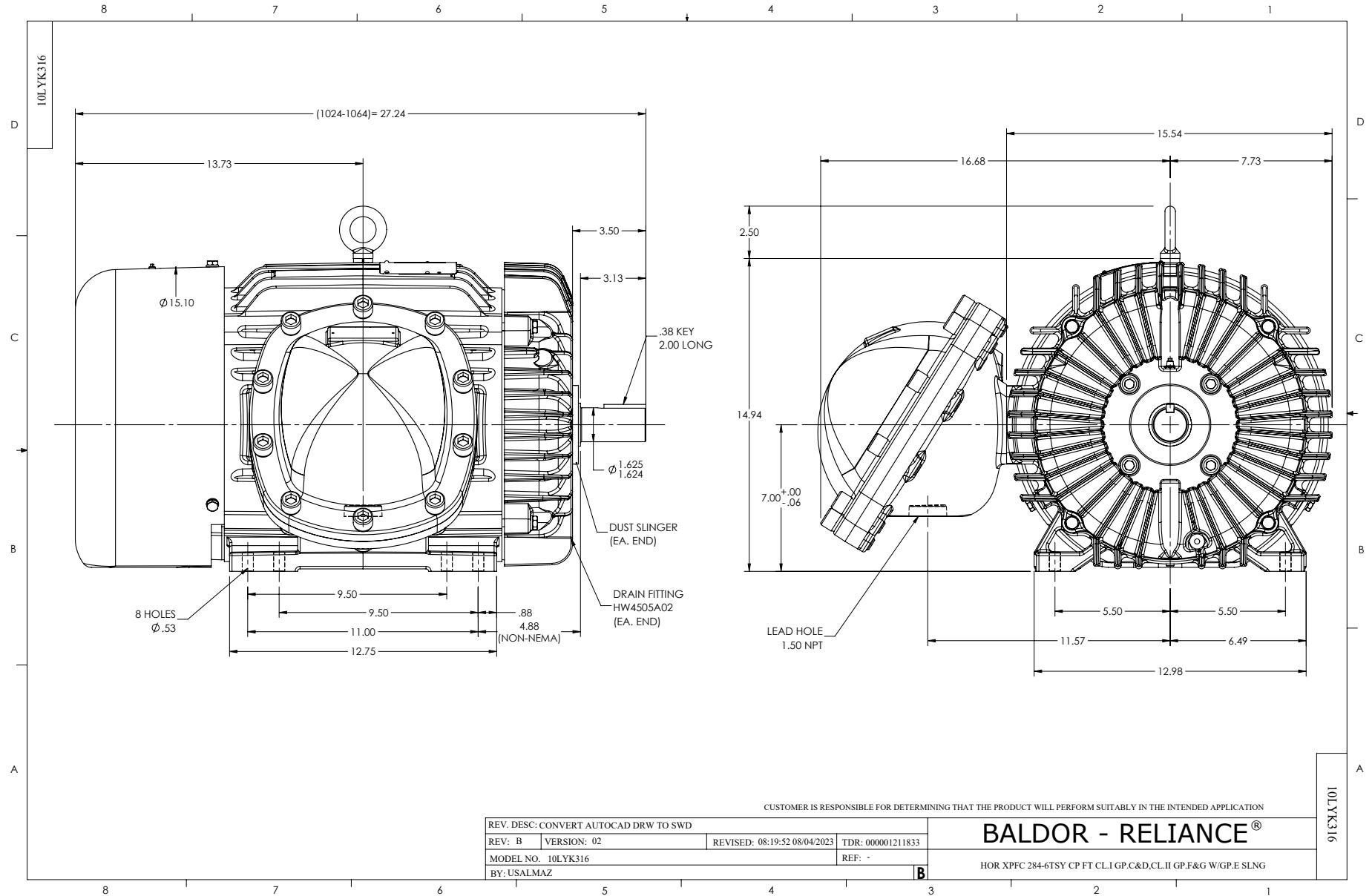
WINDING # 10WGY777

Typical performance - not guaranteed values.

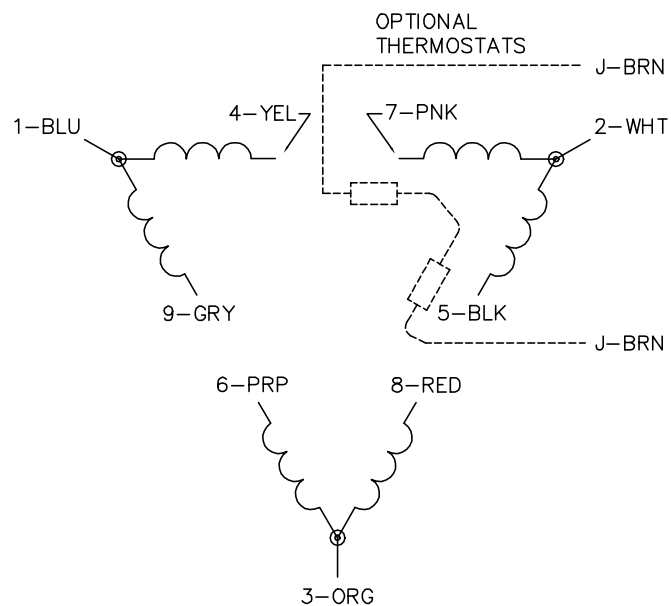
20 HP 3 PH 50 HZ 2926 RPM 380 V 1038M

TORQUES (LB-FT): PO=139 PU=53.4 LR=69 LRA=173

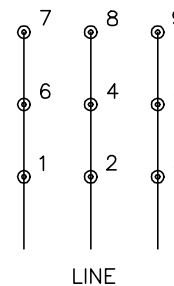




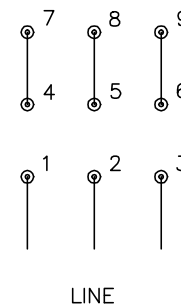
CD0180



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

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