ABB BALDOR RELIANCE

Customer information packet

DRX282524T

25HP, 3520//2930RPM, 3PH, 60HZ, 284TS, XPFC, F
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	284TS
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	25.000 HP @ 60 HZ
	20.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	28.000 A @ 380.0 V
	28.500 A @ 460.0 V
	56.000 A @ 190.0 V
	57.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY777
Layout	10LYH638
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	06-04-2019

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1038M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.23 IN
Power Factor	89
Product Family	Hazardous Location Motor
Pulley Face Code	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
Speed	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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	10-0000-0836			**INV.TYPE**	PWM						
CAT.NO.	DRX282524T			**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**							
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	284TS	**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 # 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. @ 25ºC**	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-FT2

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

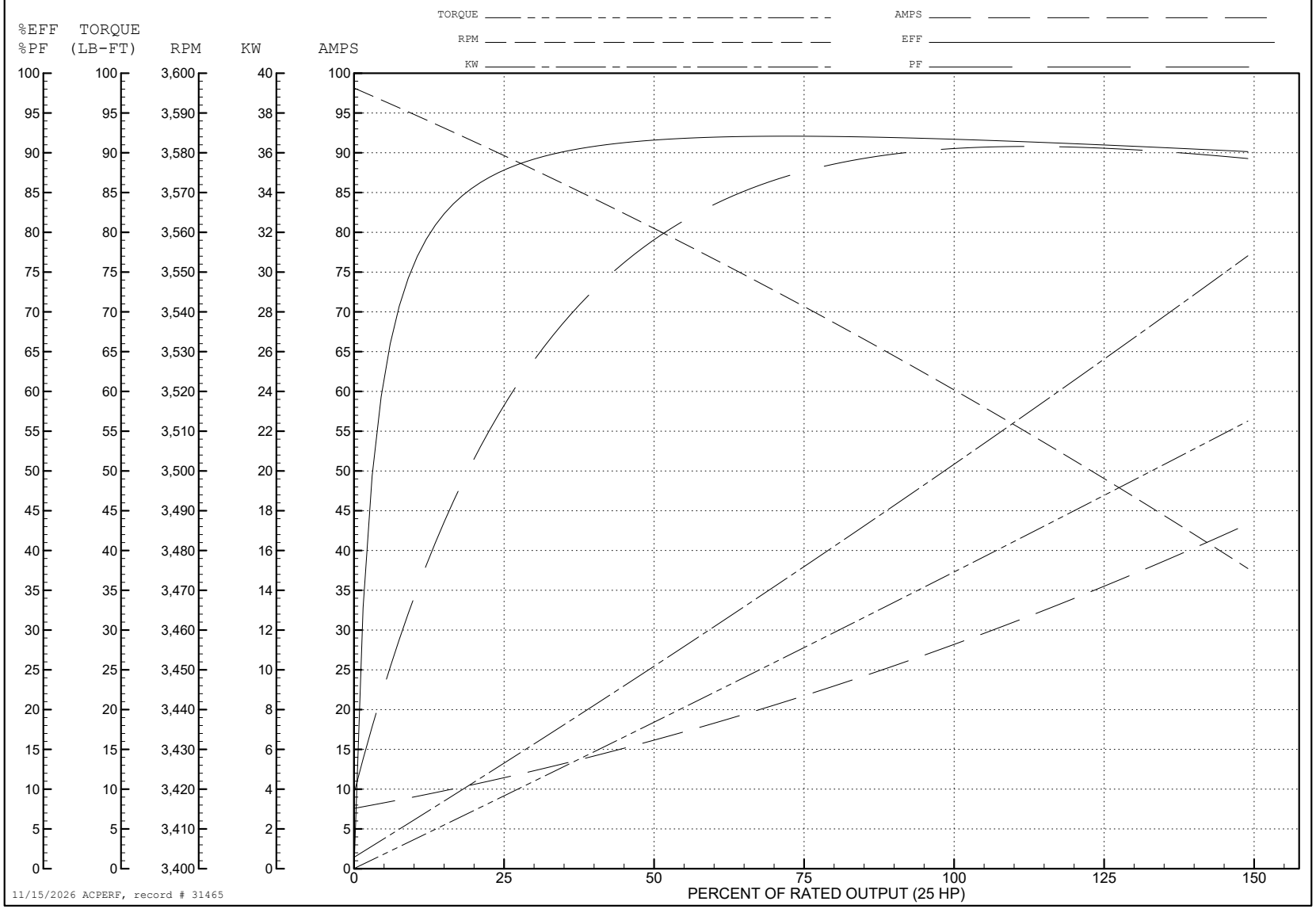
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WINDING # 10WGY777

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

Typical performance - not guaranteed values.

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			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			57/28.5//56/28
R.P.M.			3520//2930
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	89
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	36 LB-FT
Start Configuration	direct on line
Breakdown Torque	139 LB-FT
Pull-up Torque	53.4 LB-FT
Locked-rotor Torque	69 LB-FT
Starting Current	173 A
No-load Current	7.96 A
Line-line Res. @ 25ºC	0.294 Ω
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

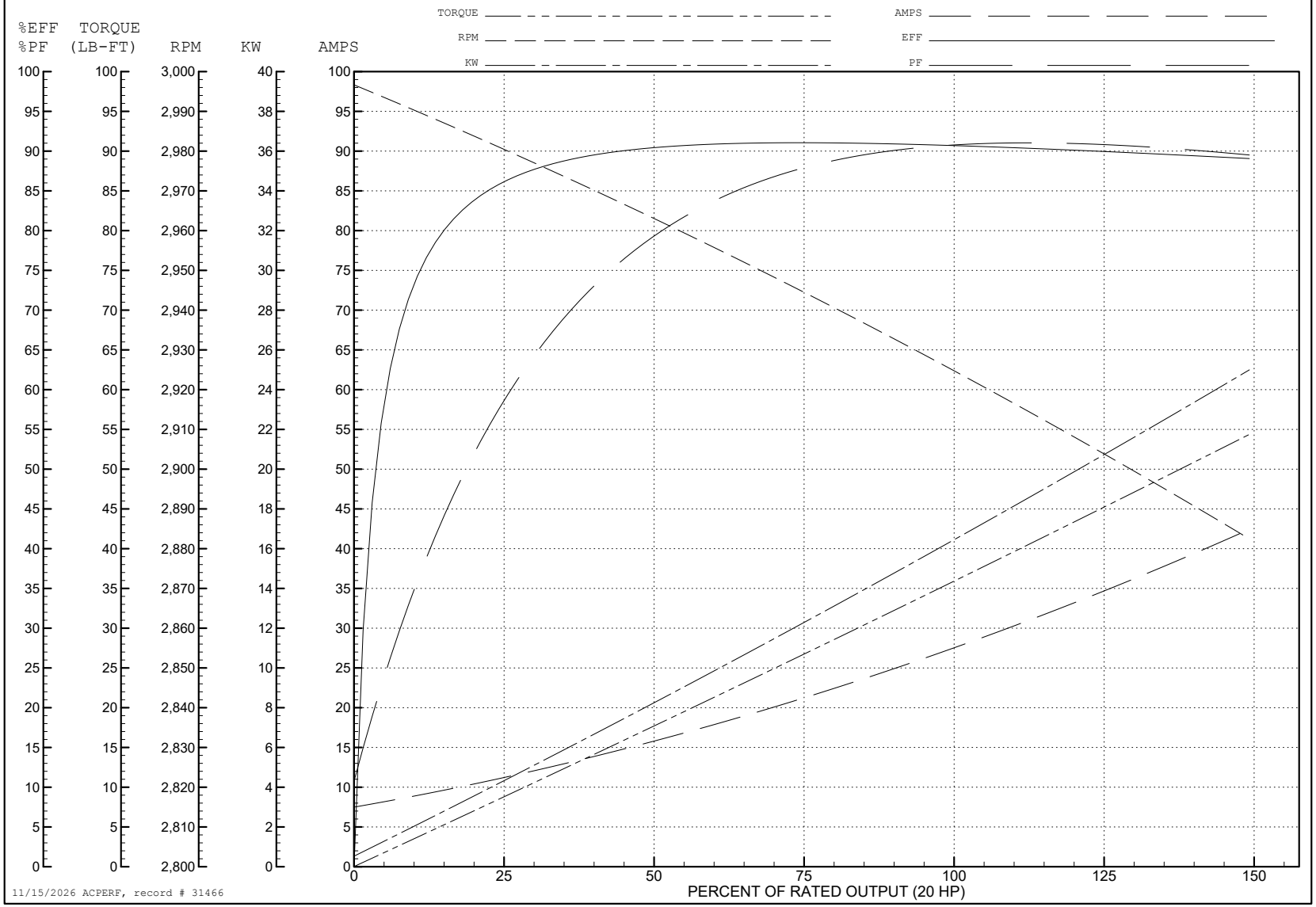
ABB Motors and Mechanical Inc.

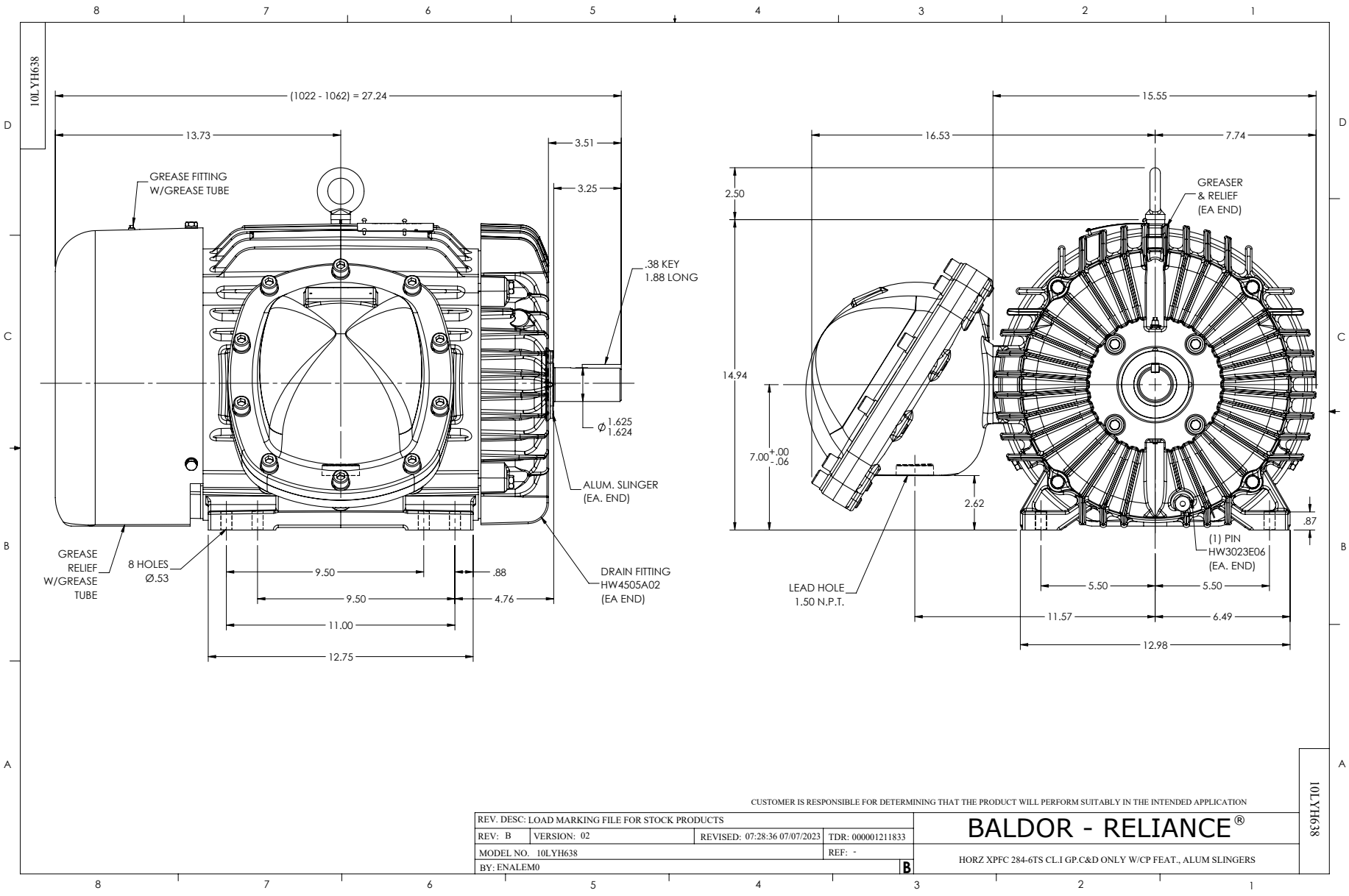
WINDING # 10WGY777

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

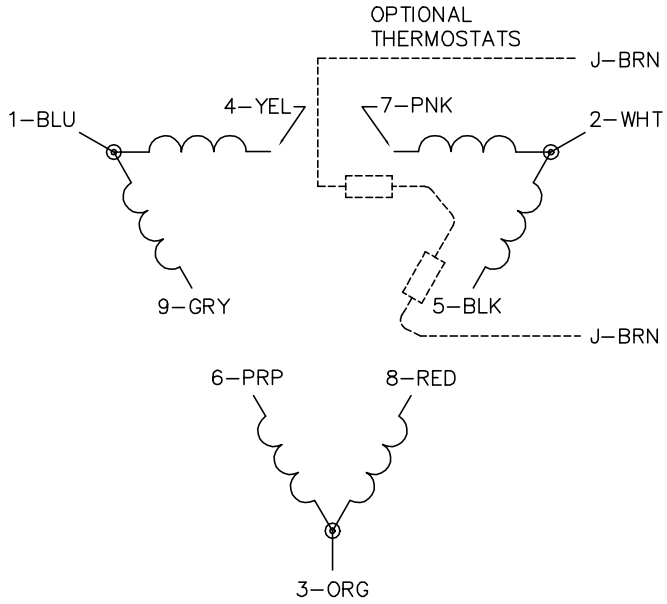
Typical performance - not guaranteed values.

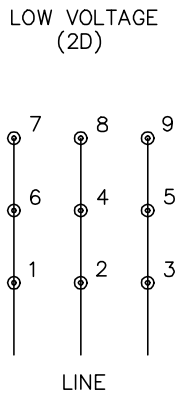
TORQUES(LB-FT): PO=139 PU=53.4 LR=69 LRA=173

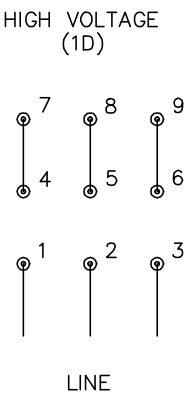



10LYH638
(1022 - 1062) = 27.24
13.73
3.51
3.25
GREASE FITTING
W/GREASE TUBE
.38 KEY
1.88 LONG
Ø 1.625
1.624
ALUM. SLINGER
(EA. END)
GREASE
RELIEF
W/GREASE
TUBE
8 HOLES
Ø.53
9.50
.88
9.50
4.76
11.00
12.75
DRAIN FITTING
HW4505A02
(EA END)
15.55
16.53
7.74
2.50
GREASER
& RELIEF
(EA END)
14.94
7.00 +.00 -.06
2.62
.87
(1) PIN
HW3023E06
(EA. END)
LEAD HOLE
1.50 N.P.T.
5.50
5.50
11.57
6.49
12.98
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: B
VERSION: 02
REVISED: 07:28:36 07/07/2023
TDR: 000001211833
MODEL NO. 10LYH638
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TS CL.I GP.C&D ONLY W/CP FEAT., ALUM SLINGERS
10LYH638

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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