ABB BALDOR RELIANCE

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

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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						

Parts List

Part number	Description	Quantity
SA368866	SA 10K316Y777G1	1.000 ea
RA358397	RA 10K316Y777G1	1.000 ea
37FN3002C03	EXFN, PLASTIC, 6.00 OD, 1.690 ID	1.000 ea
12CB1003A02P	KOBX, MACH 1.50 NPT GROUP C MTRS ,EPOXY	1.000 ea
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 ea
HA4017A06	/125 X 3.00 GREASER EXT. (F/S)	1.000 ea
HA4017A03	.125 X 1.75 GREASE EXT (F/S)	1.000 ea
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
HA2009A53	SLINGER FOR GROUP E MTRS - 309 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	1.000 ea
10XN2520K40	1/4-20 X 2-1/2 HEX HD CAPSCREW,GRADE 5,Z	4.000 ea
10EP1709A13P	PUEP, EX.PRF - GROUP E MTR W/DRAIN & EPO	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA2009A33	SLINGER, FOR GROUP E MOTORS - 311 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
10FH1008A32P	310 FH X-PROOF MACH W/DRAIN & GRSR SLOTS	1.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 ea
12CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 ea

84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	10.000 ea
HW2501G18	SQUARE STEEL KEY .375 X 2.00 LONG	1.000 ea
LB1081C	ALUM XP CAUTION LABEL (COL PLANT ONLY-	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
10EP1701A64LP5	FR ENDPLATE, MACH W/PRIMER & MG1025L14	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.070 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	2.000 ea
NP2033XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
14PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 31465
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

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	37.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	144 LB-FT
Pull-up Torque	50.1 LB-FT
Locked-rotor Torque	64.7 LB-FT
Starting Current	177 A
No-load Current	8.07 A
Line-line Res. @ 25ºC	0.294 Ω
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

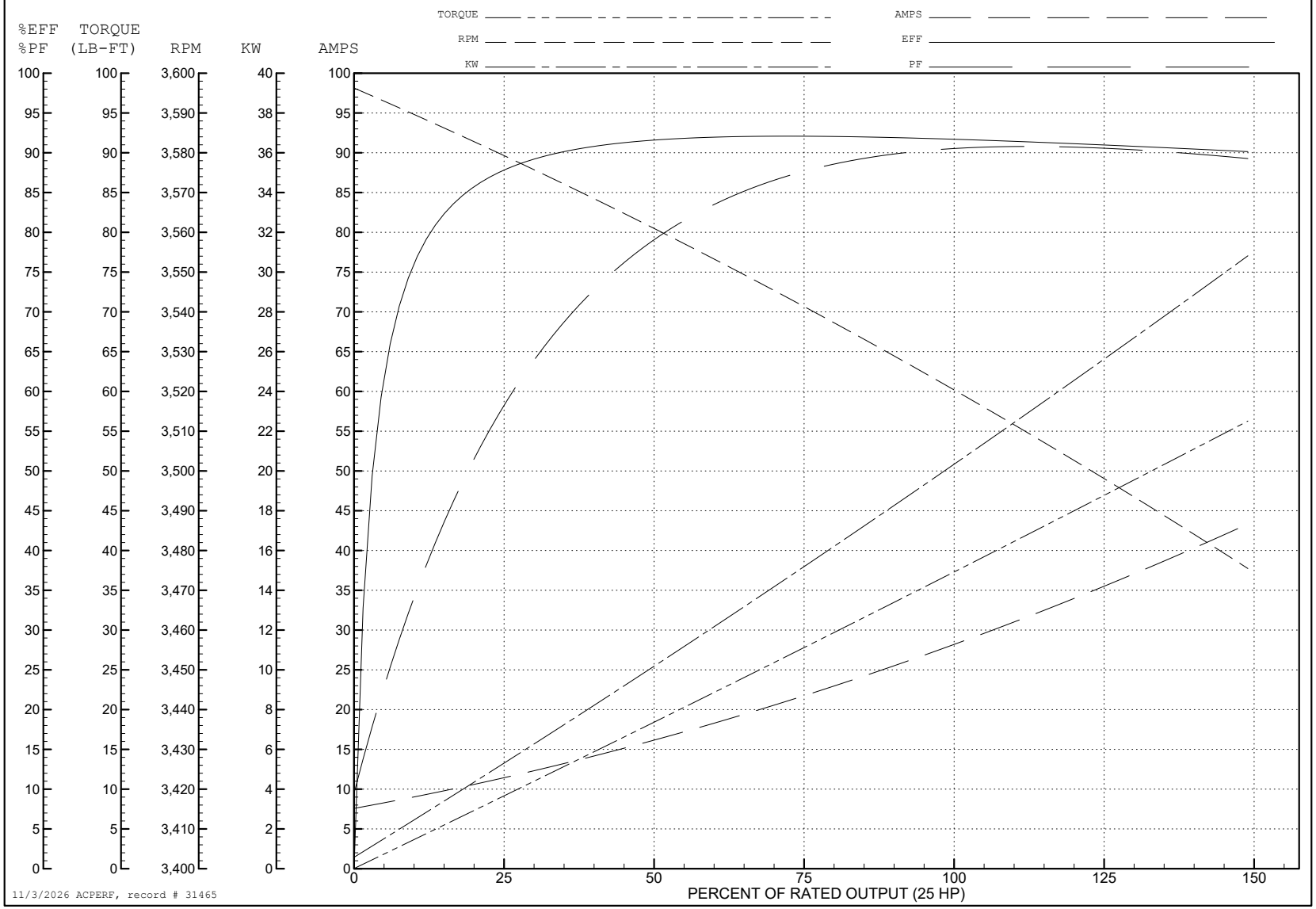
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WINDING # 10WGY777

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

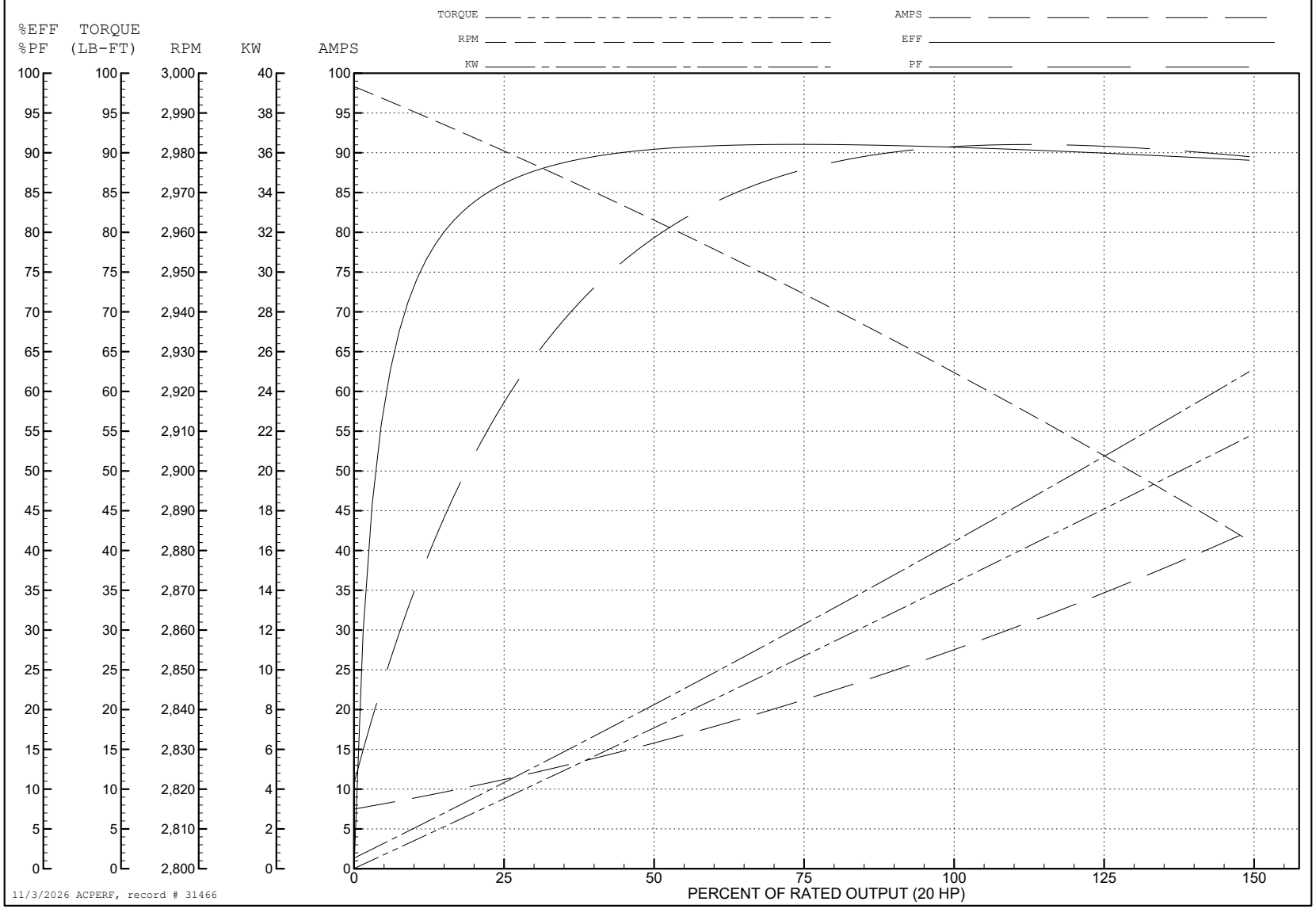
ABB Motors and Mechanical Inc.

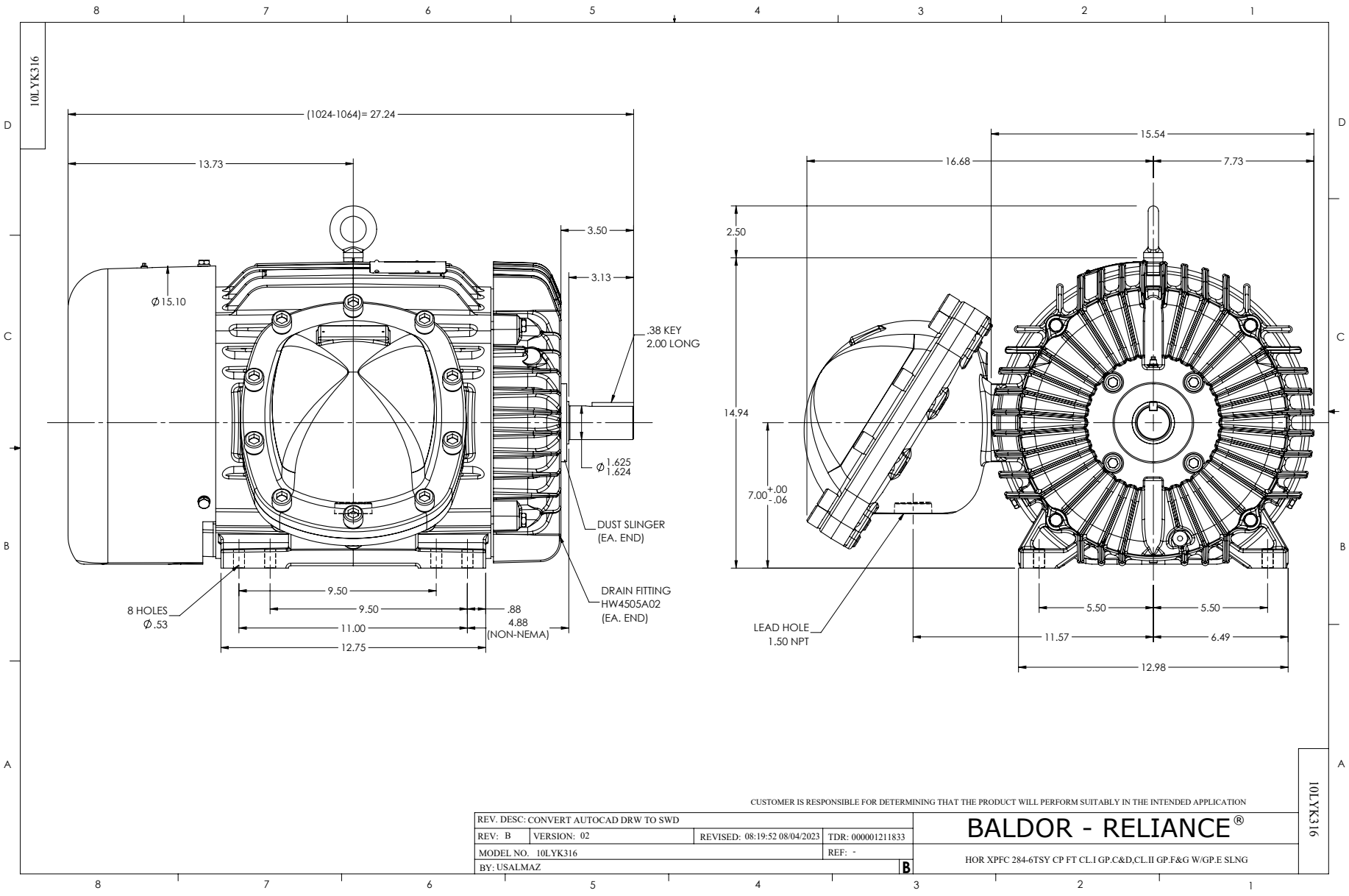
WINDING # 10WGY777

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

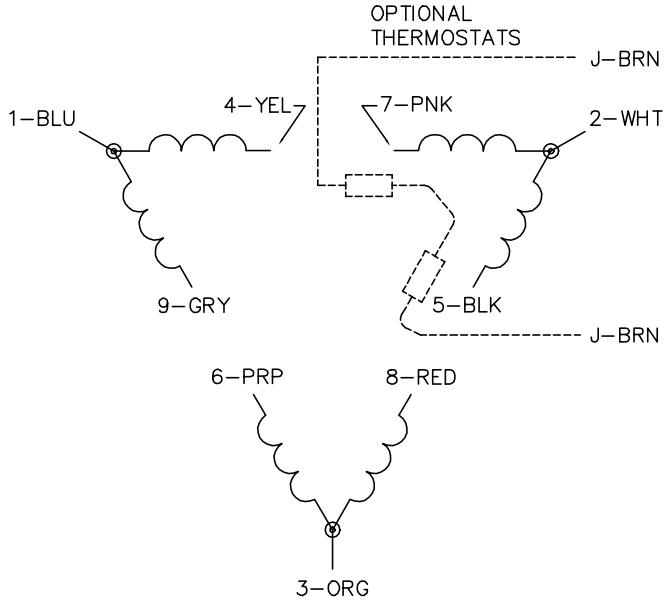
Typical performance - not guaranteed values.

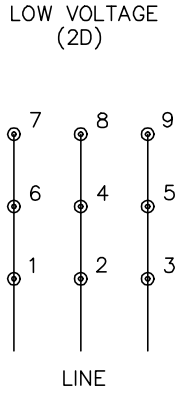
TORQUES(LB-FT): PO=139 PU=53.4 LR=69 LRA=173

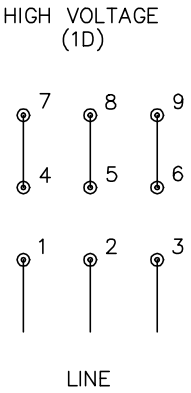



10LYK316
(1024-1064)= 27.24
13.73
3.50
3.13
Ø15.10
.38 KEY
2.00 LONG
Ø1.625
1.624
DUST SLINGER
(EA. END)
DRAIN FITTING
HW4505A02
(EA. END)
8 HOLES
Ø.53
9.50
9.50
.88
4.88
(NON-NEMA)
11.00
12.75
15.54
16.68
7.73
2.50
14.94
7.00 +.00 -.06
LEAD HOLE
1.50 NPT
5.50
5.50
11.57
6.49
12.98
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: B
VERSION: 02
REVISED: 08:19:52 08/04/2023
TDR: 000001211833
MODEL NO. 10LYK316
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR XPFC 284-6TSY CP FT CL.I GP.C&D,CL.II GP.F&G W/GP.E SLNG
10LYK316

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