ABB BALDOR RELIANCE

Customer information packet

CEM7063T-I

25//20HP, 3520//2930RPM, 3PH, 60//50HZ, 284T
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	284TSC
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	3600 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
	UL
	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	56.000 A @ 190.0 V
	57.000 A @ 230.0 V
	28.500 A @ 460.0 V
	28.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	U
Type	AC
Mech. spec.	10G898
Base	
Status	PRD/A
Elec. spec.	10WGY777
Layout	10LYG898
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	11-21-2013

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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	28.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
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	X1038M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.23 IN
Power Factor	89
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	1.625 IN
Shaft Extension Location	Pulley End
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

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	10G898Y777G2										
CAT.NO.	CEM7063T-I										
HP	25//20 NEMA MG-1 PT.5,IP55										
VOLTS	230/460//190/380										
AMPS	57/28.5//56/28										
RPM	3520//2930				**MOTOR WEIGHT**		445				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6311				
SER.F.	1.15	**DES**	B	**CODE**	G	**ODE BRG**	6309				
FRAME	284TSC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF			91.7	**PF**	89		
	55C AMB @ 1.0 SF,60C RISE										

AC Induction Motor Performance Data
Record # 35492
Typical performance - not guaranteed values

Winding: 10WGY777-R002	**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.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			

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
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	24
Rotor inertia	1.63 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	61	80	87	89	90	90	90
Efficiency	87.5	91.5	91.7	91.9	91.1	90	91.4
Speed	3576	3561	3543	3522	3499	3474	3508
Line amperes	10.6	15.7	21.7	28.5	35.6	43.1	32.8

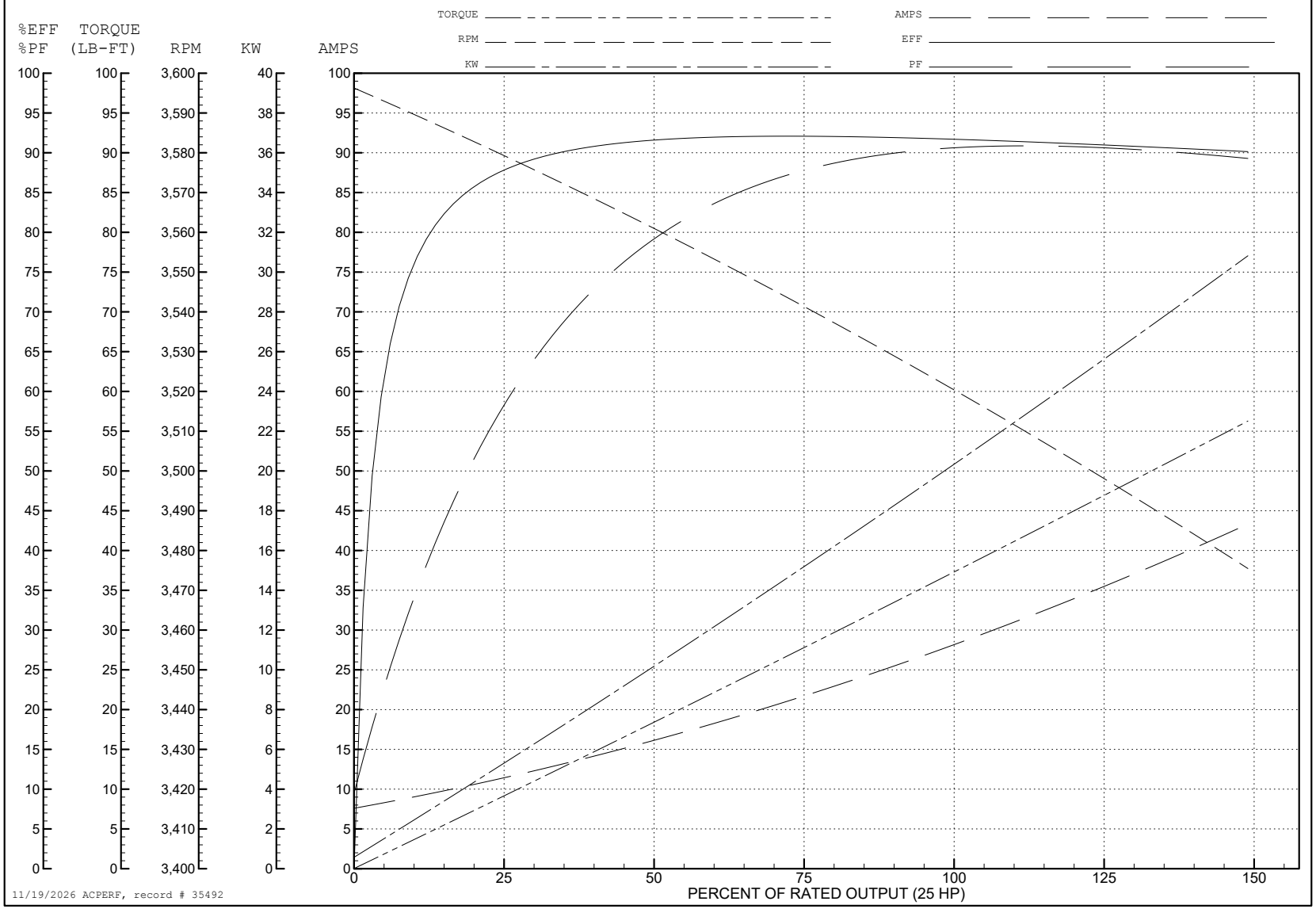
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WINDING # 10WGY777

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 # 79133
Typical performance - not guaranteed values

Winding: 10WGY777-R002	**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.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	35.97 LB-FT
Start Configuration	direct on line
Breakdown Torque	139 LB-FT
Pull-up Torque	53.39 LB-FT
Locked-rotor Torque	68.94 LB-FT
Starting Current	173 A
No-load Current	7.94 A
Line-line Res. @ 25ºC	0.325 Ω
Temp. Rise @ Rated Load	54°C
Temp. Rise @ S.F. Load	69°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**	**S.F.**
Power Factor	60	80	87	90	90	90	90
Efficiency	88.3	91.9	91.7	91.6	90.6	89.3	91
Speed	2978	2964	2946	2927	2905	2881	2914
Line amperes	10.27	15.22	21.03	27.63	34.62	41.99	31.8

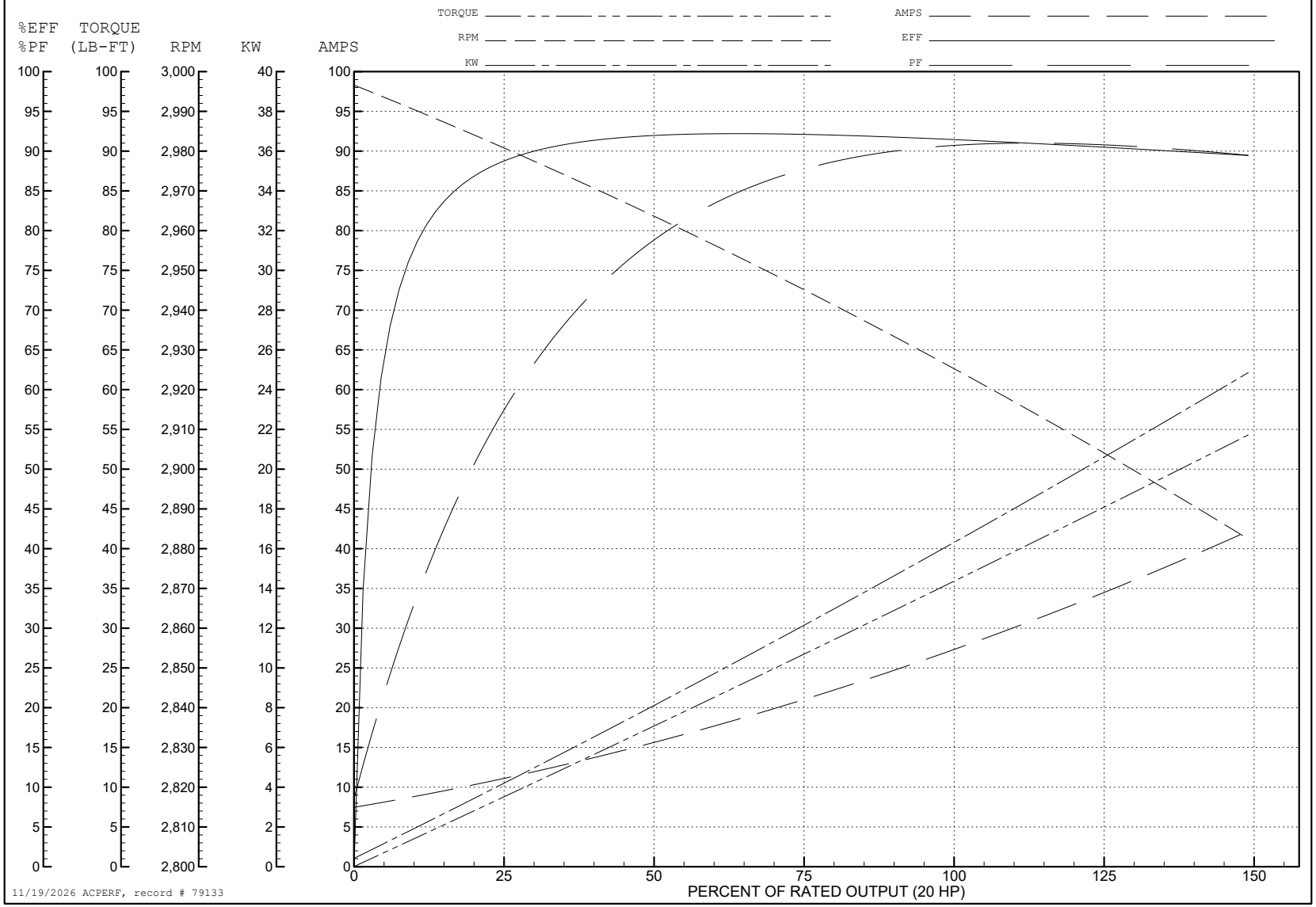
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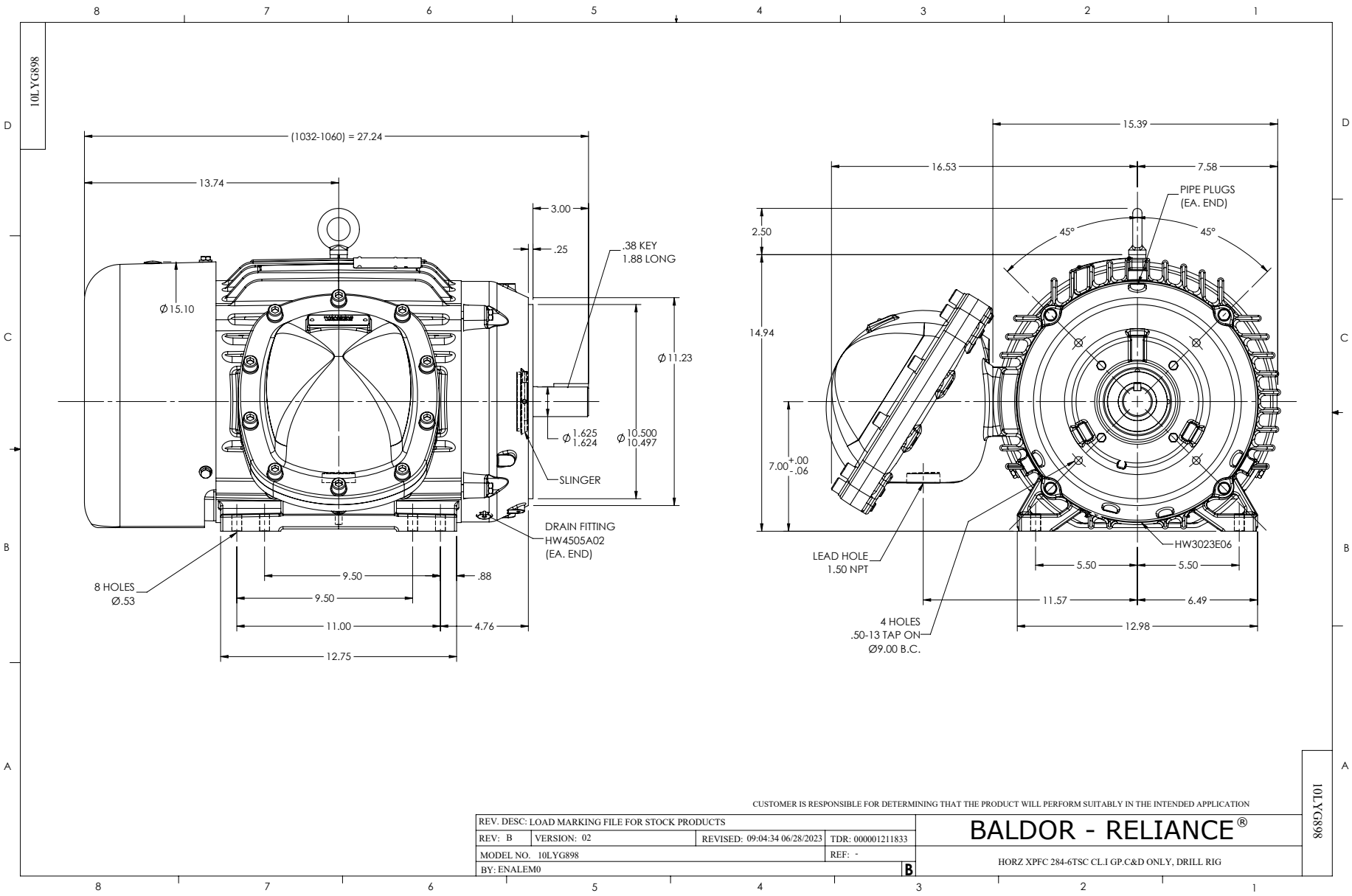
WINDING # 10WGY777

20 HP 3 PH 50 HZ 2927 RPM 380 V 1038M

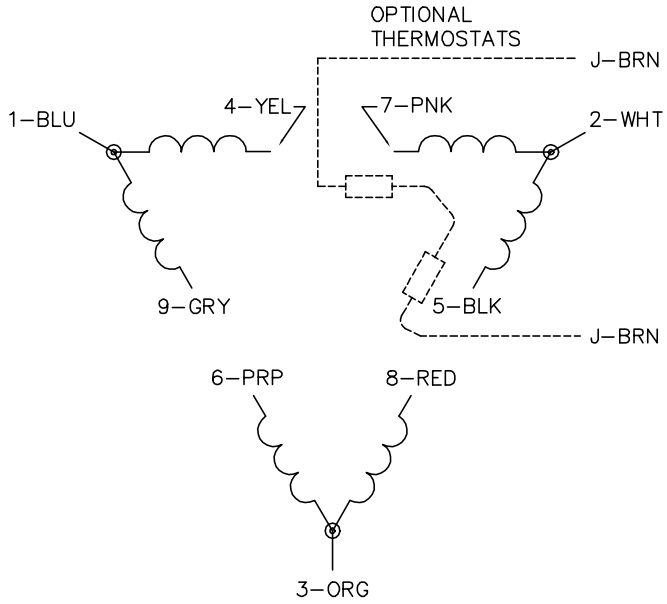
Typical performance - not guaranteed values.

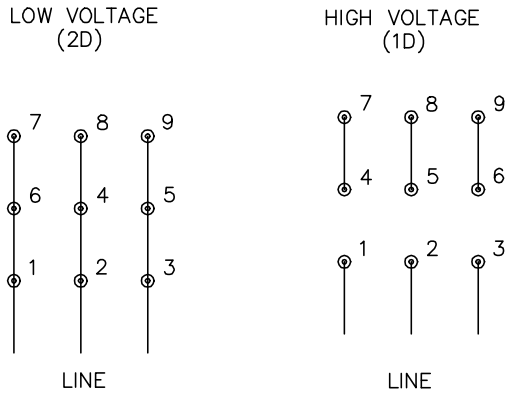
TORQUES(LB-FT): PO=139 PU=53.39 LR=68.94 LRA=173




10LYG898
(1032-1060) = 27.24
13.74
3.00
.25
.38 KEY
1.88 LONG
Ø15.10
Ø11.23
Ø1.625
1.624
Ø10.500
10.497
SLINGER
DRAIN FITTING
HW4505A02
(EA. END)
8 HOLES
Ø.53
9.50
9.50
.88
11.00
4.76
12.75
15.39
16.53
7.58
PIPE PLUGS
(EA. END)
45°
45°
2.50
14.94
7.00 +.00 -.06
LEAD HOLE
1.50 NPT
HW3023E06
5.50
5.50
11.57
6.49
12.98
4 HOLES
.50-13 TAP ON
Ø9.00 B.C.
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: 09:04:34 06/28/2023
TDR: 000001211833
MODEL NO. 10LYG898
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TSC CL.I GP.C&D ONLY, DRILL RIG
10LYG898

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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