

ABB BALDOR RELIANCE III

Customer information packet

CEM7063T-I

25//20HP, 3520//2930RPM, 3PH, 60//50HZ, 284T

Class - CLI GP C,D

Division - Division I

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				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.)		1.15		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	
S.F. Amps				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

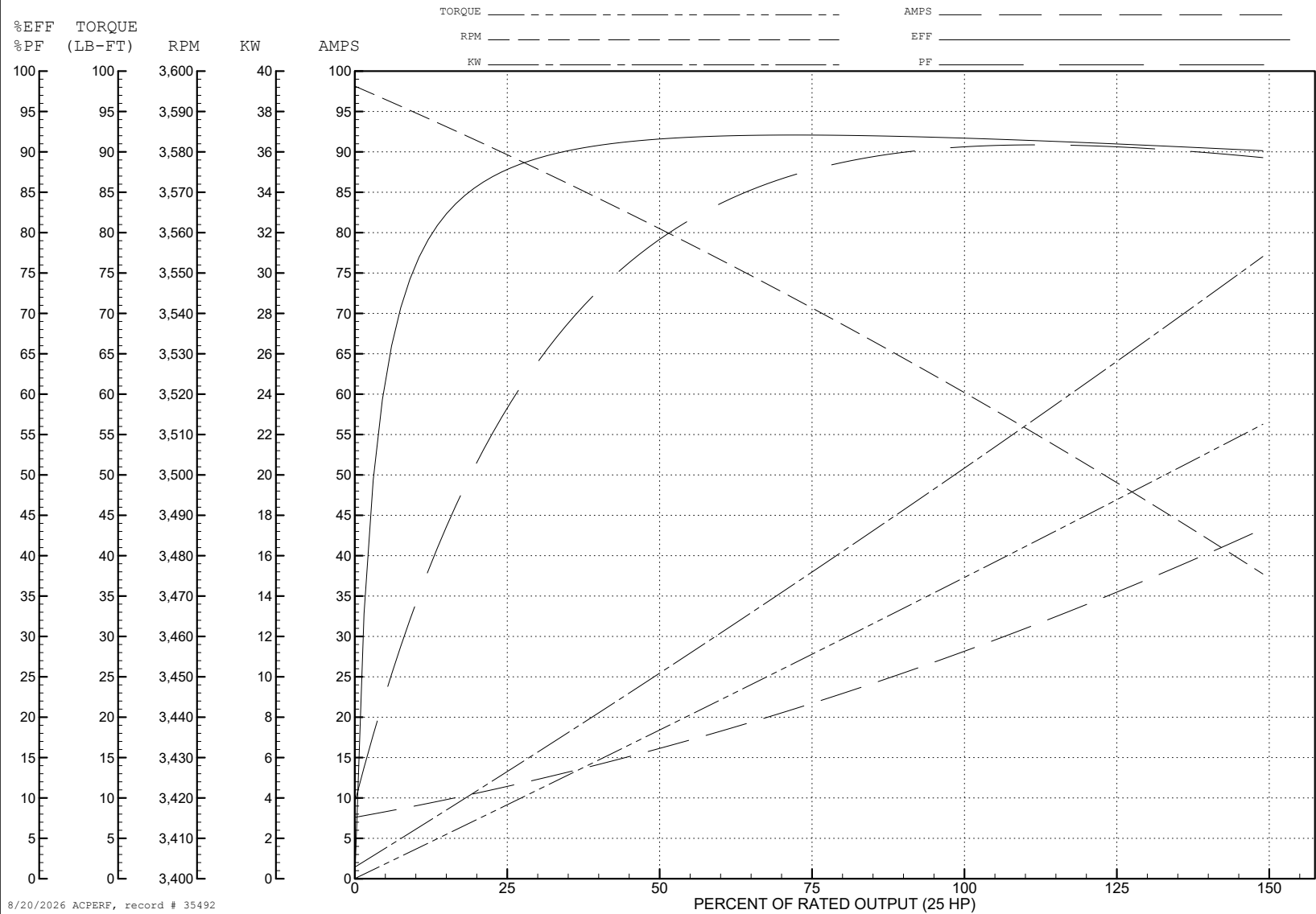
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WINDING # 10WGY777

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 # 79133

Typical performance - not guaranteed values

Winding: 10WGY777-R002				Type: 1038M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		25//20		Full Load Torque		35.97 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		53.39 LB-FT			
Hz		60//50 Phase		3		Locked-rotor Torque		68.94 LB-FT	
NEMA Design Code		B		KVA Code		G		Starting Current	173 A
Service Factor (S.F.)		1.15						No-load Current	7.94 A
NEMA Nom. Eff.		91.7		Power Factor		89		Line-line Res. @ 25°C	0.325 Ω
Rating - Duty		40C AMB-CONT						Temp. Rise @ Rated Load	54°C
S.F. Amps								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

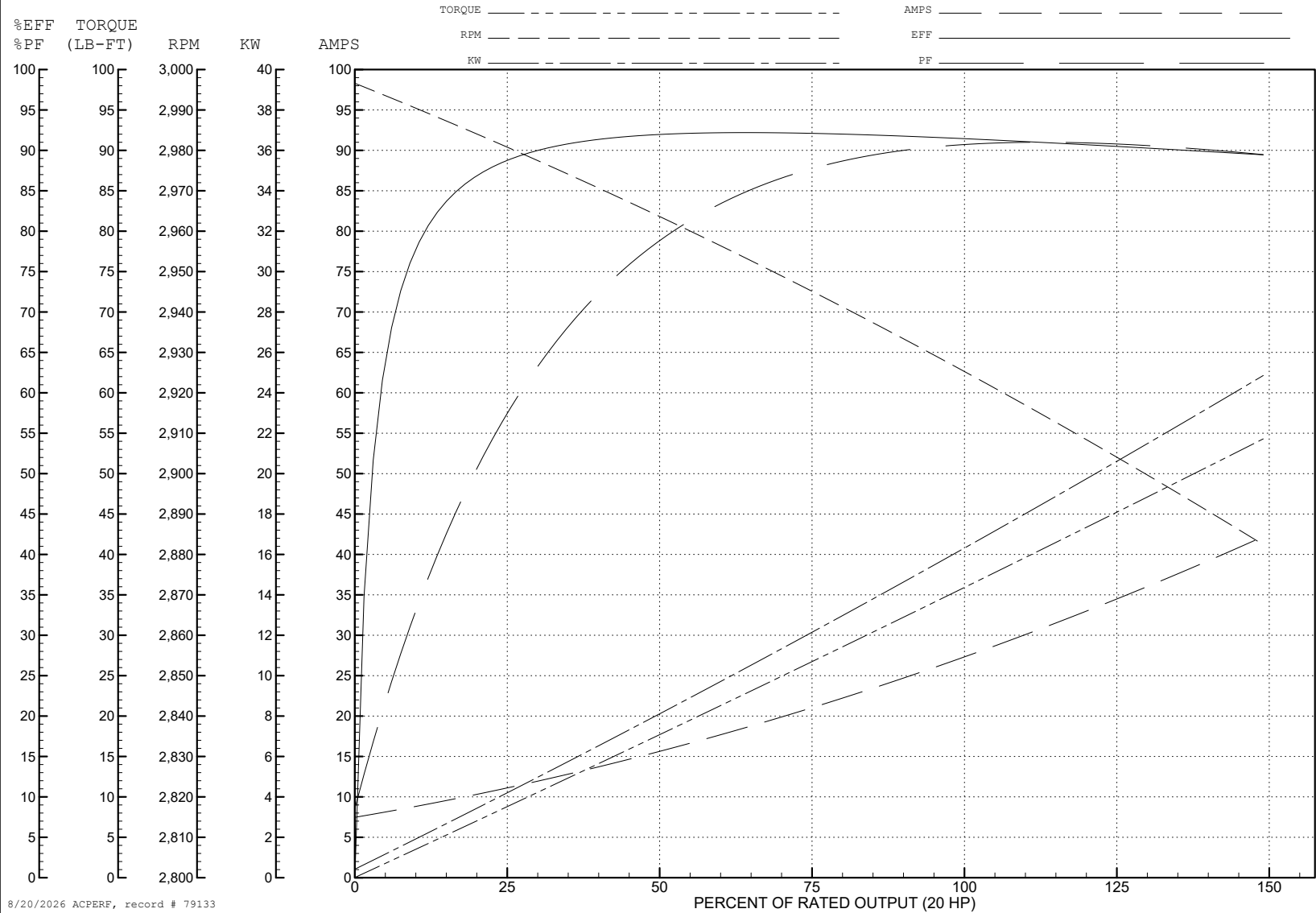
ABB Motors and Mechanical Inc.

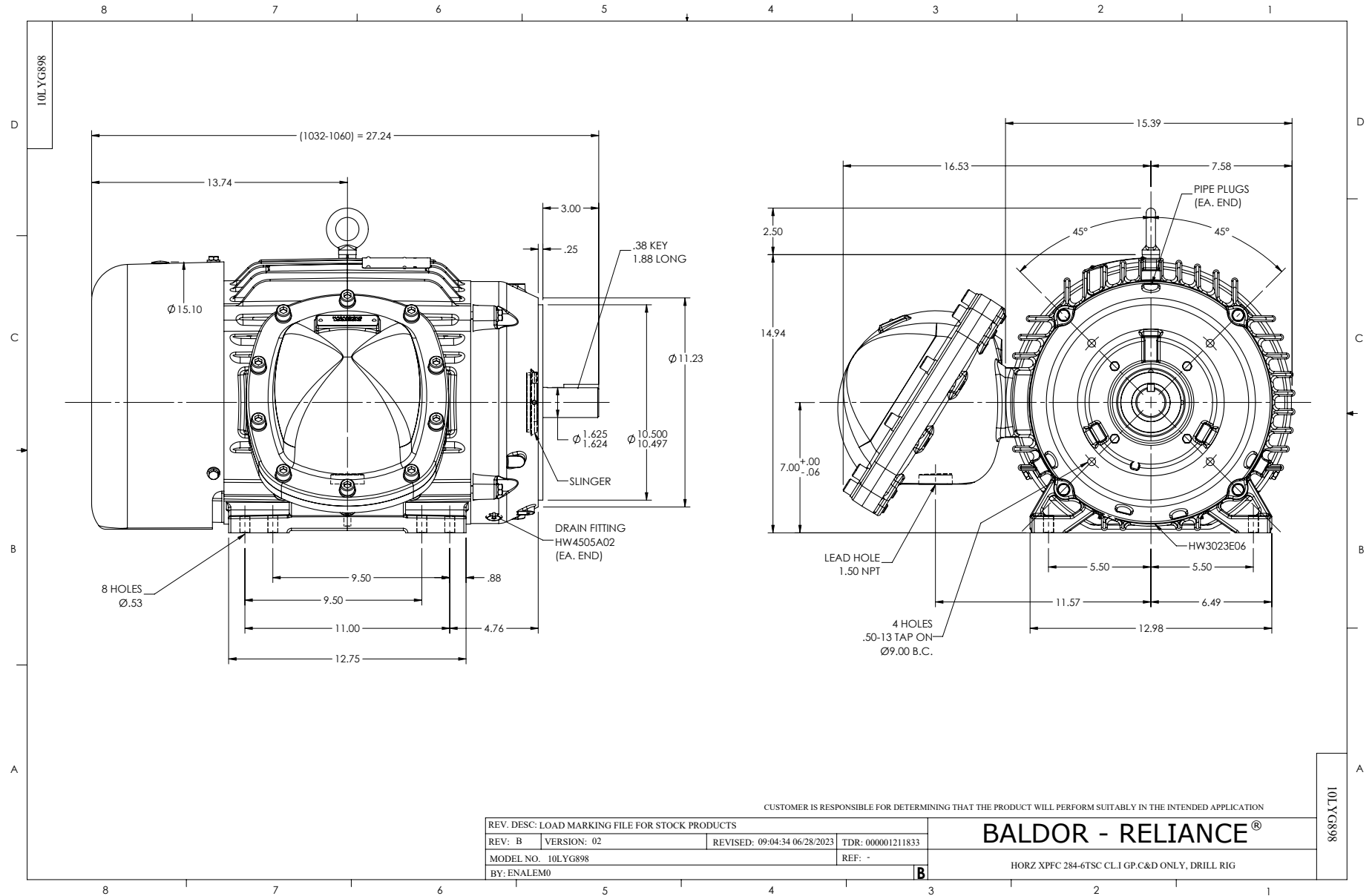
WINDING # 10WGY777

Typical performance - not guaranteed values.

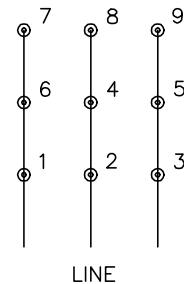
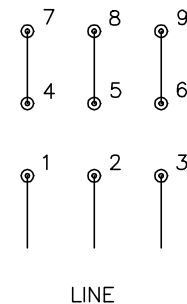
20 HP 3 PH 50 HZ 2927 RPM 380 V 1038M

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