ABB BALDOR RELIANCE

Customer information packet

CEM7067T-I

40//30HP, 3540//2950RPM, 3PH, 60//50HZ, 324T
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	324TSC
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	40.000 HP @ 60 HZ
	30.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CSA EEV
	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	41.000 A @ 380.0 V
	45.000 A @ 460.0 V
	82.000 A @ 190.0 V
	90.000 A @ 230.0 V
	98.000 A @ 208.0 V
Design Code	A

Part Detail

Revision	Q
Type	AC
Mech. spec.	12F665
Base	
Status	PRD/A
Elec. spec.	12WGY584
Layout	12LYF665
Eff. date	12-04-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	11-22-2013

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	41.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1252M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.50 IN
Power Factor	88
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	2950 rpm
	3540 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.	12F665Y584G1											
CAT.NO.	CEM7067T-I											
HP	40//30 NEMA MG-1 PT.5,IP55											
VOLTS	230/460//190/380											
AMPS	90/45//82/41											
RPM	3540//2950					**MOTOR WEIGHT**	500					
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6312					
SER.F.	1.15	**DES**	A	**CODE**	H	**ODE BRG**	6311					
FRAME	324TSC	**GREASE**	POLYREX EM									
RATING	40C AMB-CONT											
				NEMA-NOM-EFF	92.4	**PF**	88					
	55C AMB @ 1.0 SF,60C RISE											

AC Induction Motor Performance Data
Record # 38693
Typical performance - not guaranteed values

Winding: 12WGY584-R001	**Type:** 1252M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			40//30
Volts			230/460//190/380
Full Load Amps			90/45//82/41
R.P.M.			3540//2950
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	92.4	**Power Factor**	88
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	59.2 LB-FT
Start Configuration	direct on line
Breakdown Torque	250 LB-FT
Pull-up Torque	85.8 LB-FT
Locked-rotor Torque	118 LB-FT
Starting Current	325 A
No-load Current	11.7 A
Line-line Res. @ 25ºC	0.12 Ω
Temp. Rise @ Rated Load	59°C
Temp. Rise @ S.F. Load	71°C
Locked-rotor Power Factor	21
Rotor inertia	4.07 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	67	83	89	90	91	91	91
Efficiency	84.6	90.4	91.9	92.6	92	91.5	92.2
Speed	3587	3574	3561	3548	3533	3518	3539
Line amperes	16.4	24.7	34.4	44.7	55.9	67.4	51.4

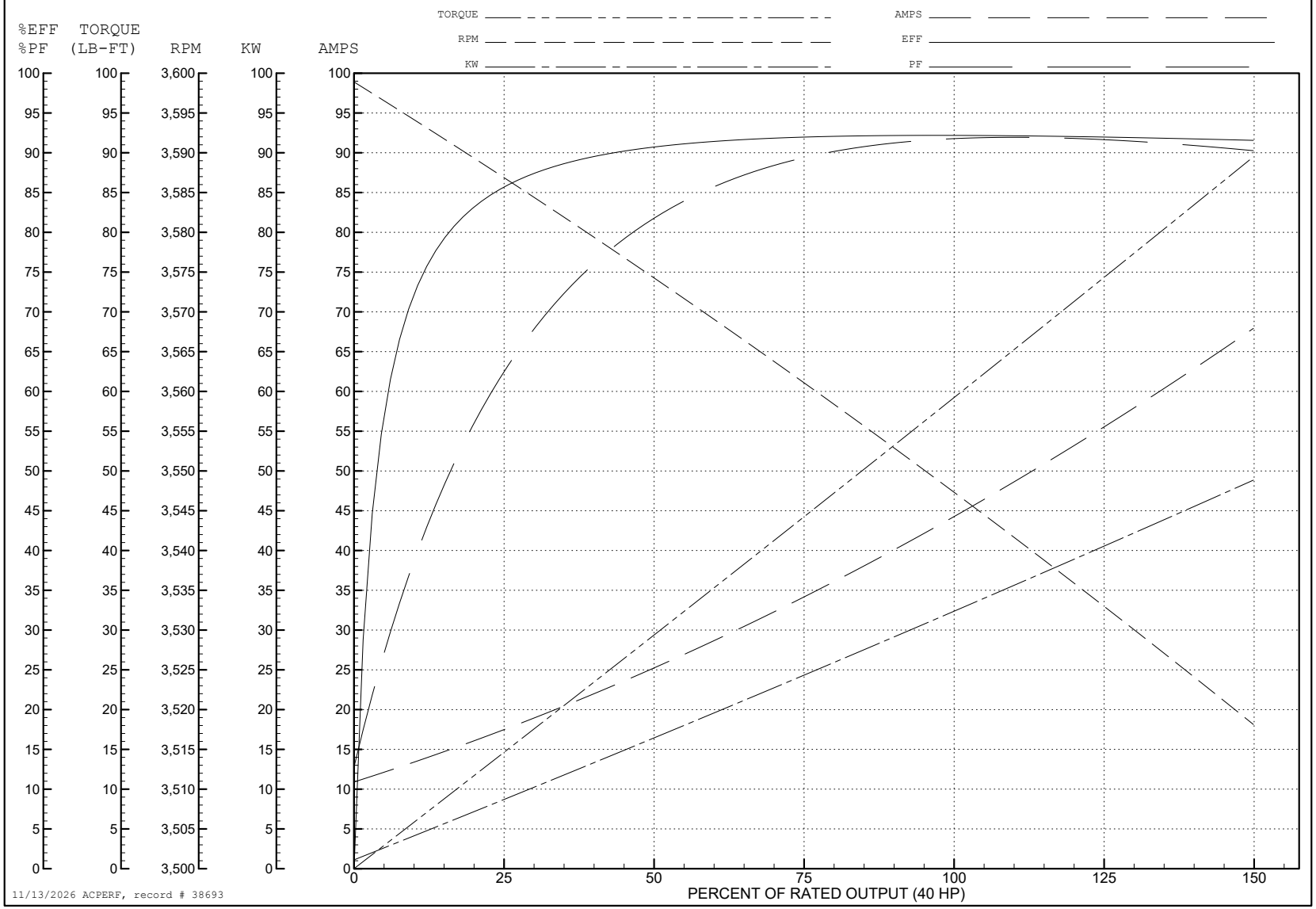
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WINDING # 12WGY584

40 HP 3 PH 60 HZ 3548 RPM 460 V 1252M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=250 PU=85.8 LR=118 LRA=325



AC Induction Motor Performance Data
Record # 38694
Typical performance - not guaranteed values

Winding: 12WGY584-R001	**Type:** 1252M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			40//30
Volts			230/460//190/380
Full Load Amps			90/45//82/41
R.P.M.			3540//2950
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	92.4	**Power Factor**	88
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	53.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	242 LB-FT
Pull-up Torque	91.4 LB-FT
Locked-rotor Torque	126 LB-FT
Starting Current	319 A
No-load Current	11.6 A
Line-line Res. @ 25ºC	0.12 Ω
Temp. Rise @ Rated Load	52°C
Temp. Rise @ S.F. Load	62°C
Locked-rotor Power Factor	24
Rotor inertia	4.07 LB-FT2

Load Characteristics 380 V, 50 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	82	88	90	91	91	91
Efficiency	81.3	88.2	90.2	91.3	90.9	90.4	91.1
Speed	2988	2976	2965	2953	2940	2927	2945
Line amperes	15.9	23.3	32.1	41.3	51.5	61.8	47.4

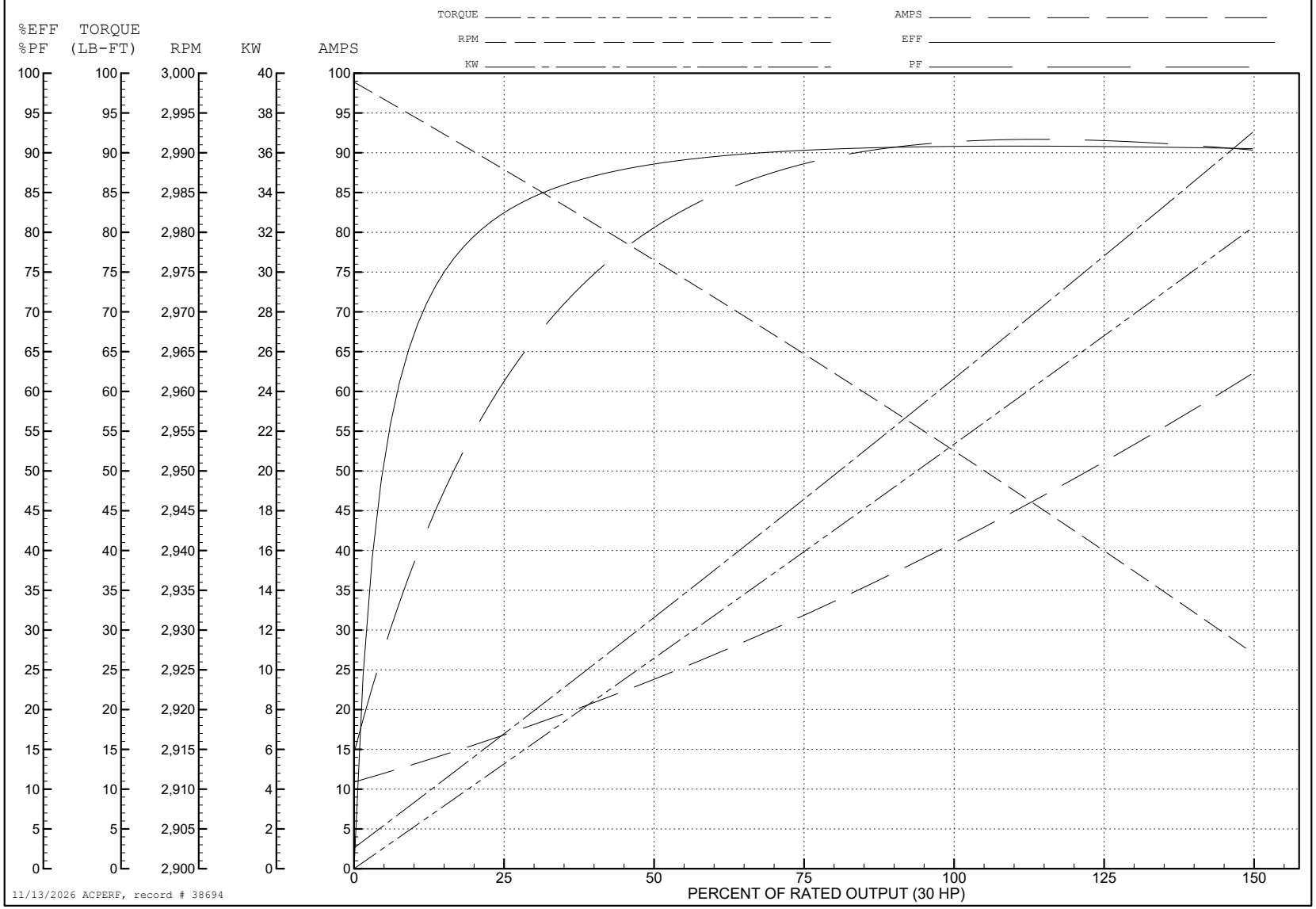
ABB Motors and Mechanical Inc.

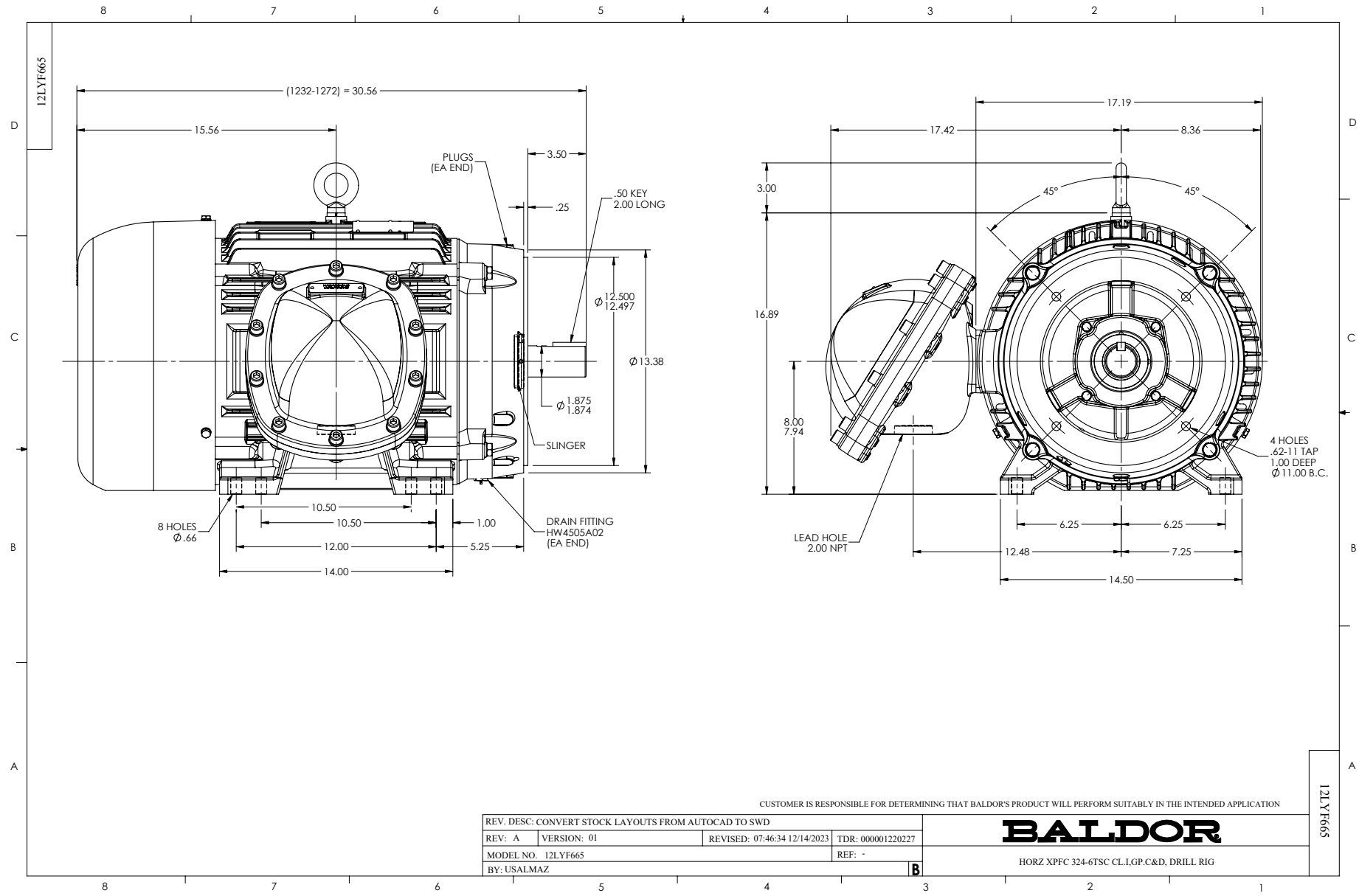
WINDING # 12WGY584

30 HP 3 PH 50 HZ 2953 RPM 380 V 1252M

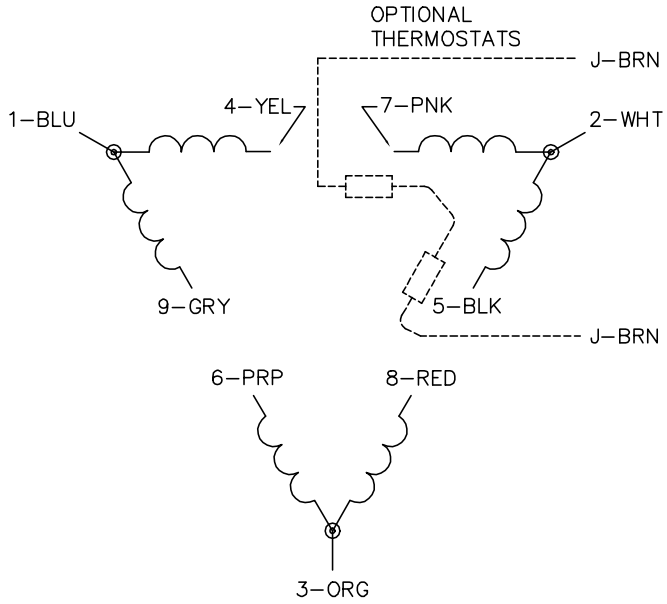
Typical performance - not guaranteed values.

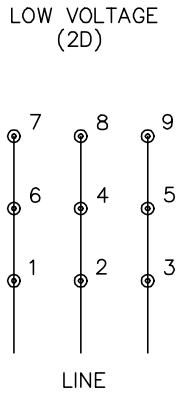
TORQUES(LB-FT): PO=242 PU=91.4 LR=126 LRA=319

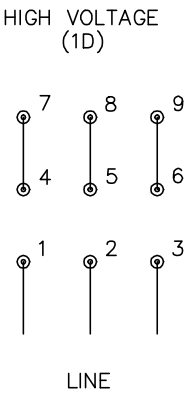



12LYF665
(1232-1272) = 30.56
15.56
PLUGS (EA END)
3.50
.25
.50 KEY 2.00 LONG
Ø 12.500 12.497
Ø 13.38
Ø 1.875 1.874
SLINGER
8 HOLES Ø .66
10.50
10.50
1.00
12.00
5.25
14.00
DRAIN FITTING HW4505A02 (EA END)
17.19
17.42
8.36
3.00
45°
45°
16.89
8.00 7.94
4 HOLES .62-11 TAP 1.00 DEEP Ø 11.00 B.C.
LEAD HOLE 2.00 NPT
6.25
6.25
12.48
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: A
VERSION: 01
REVISED: 07:46:34 12/14/2023
TDR: 000001220227
MODEL NO. 12LYF665
REF: -
BY: USALMAZ
B
BALDOR
HORZ XPFC 324-6TSC CL.I,GP.C&D, DRILL RIG
12LYF665

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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