ABB BALDOR RELIANCE

Customer information packet

EM7083T-I

30//25HP, 3520//2920RPM, 3PH, 60//50HZ, 286T
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286TS
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	30.000 HP @ 60 HZ
	25.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 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	33.000 A @ 460.0 V
	34.000 A @ 380.0 V
	66.000 A @ 230.0 V
	68.000 A @ 190.0 V
	72.000 A @ 208.0 V
Design Code	B

Part Detail

Revision	Z
Type	AC
Mech. spec.	10F284
Base	
Status	PRD/A
Elec. spec.	10WGZ035
Layout	10LYF284
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	06-04-2012

Drip Cover	No Drip Cover
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	33.0 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	X1046M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.23 IN
Power Factor	90
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	2920 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.	10F284Z035G1										
CAT.NO.	EM7083T-I										
HP	30//25 NEMA MG-1 PT.5,IP55										
VOLTS	230/460//190/380										
AMPS	66/33//68/34										
RPM	3520//2920				**MOTOR WEIGHT**		495				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6311				
SER.F.	1.15	**DES**	B	**CODE**	G	**ODE BRG**	6309				
FRAME	286TS	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF			91.7	**PF**	90		
	55C AMB @ 1.0 SF 60C RISE										

AC Induction Motor Performance Data
Record # 53267
Typical performance - not guaranteed values

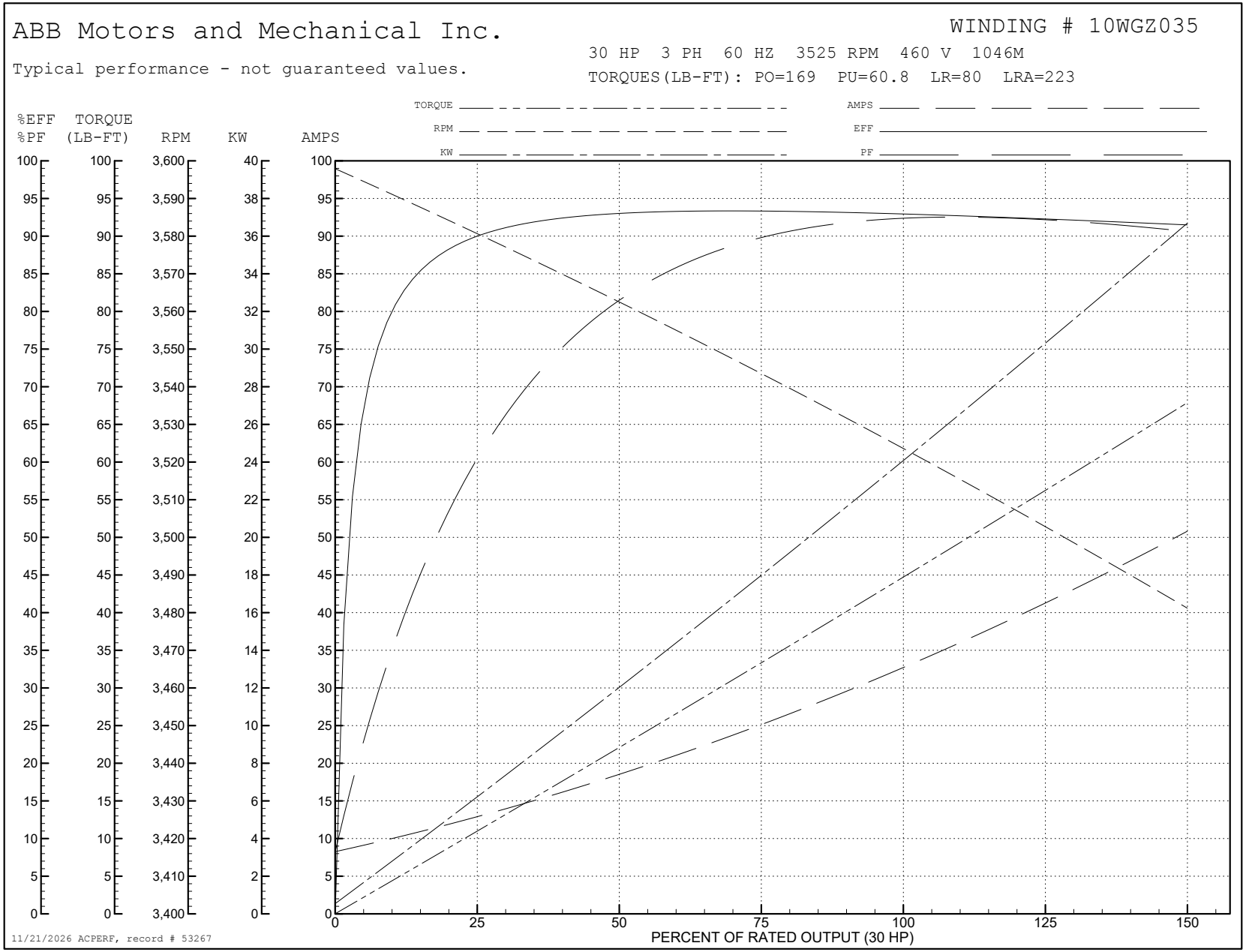
Winding: 10WGZ035-R003	**Type:** 1046M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			66/33//68/34
R.P.M.			3520//2920
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**	90
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	44.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	169 LB-FT
Pull-up Torque	60.8 LB-FT
Locked-rotor Torque	80 LB-FT
Starting Current	223 A
No-load Current	8.85 A
Line-line Res. @ 25ºC	0.217 Ω
Temp. Rise @ Rated Load	58°C
Temp. Rise @ S.F. Load	72°C
Locked-rotor Power Factor	24
Rotor inertia	1.97 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	64	83	89	91	92	91	92
Efficiency	89.7	92.9	93.6	92.8	92.5	91.5	92.6
Speed	3580	3561	3544	3525	3504	3480	3512
Line amperes	12	18.3	25.2	33	41.5	50.5	38.1


ABB Motors and Mechanical Inc.
WINDING # 10WGZ035
Typical performance - not guaranteed values.
30 HP 3 PH 60 HZ 3525 RPM 460 V 1046M
TORQUES(LB-FT): PO=169 PU=60.8 LR=80 LRA=223
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/21/2026 ACPERF, record # 53267

AC Induction Motor Performance Data
Record # 53268
Typical performance - not guaranteed values

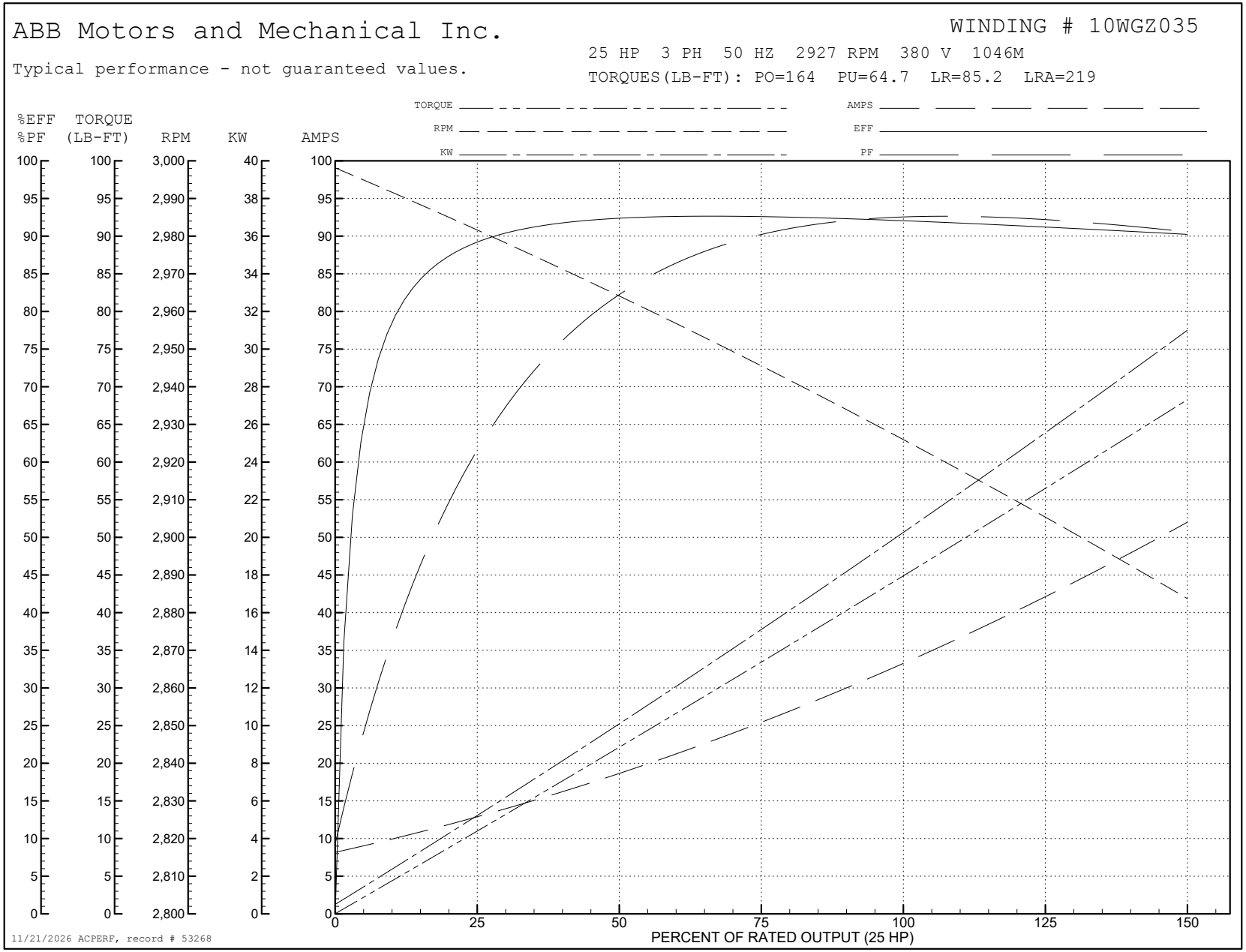
Winding: 10WGZ035-R003	**Type:** 1046M	**Enclosure:** XPFC

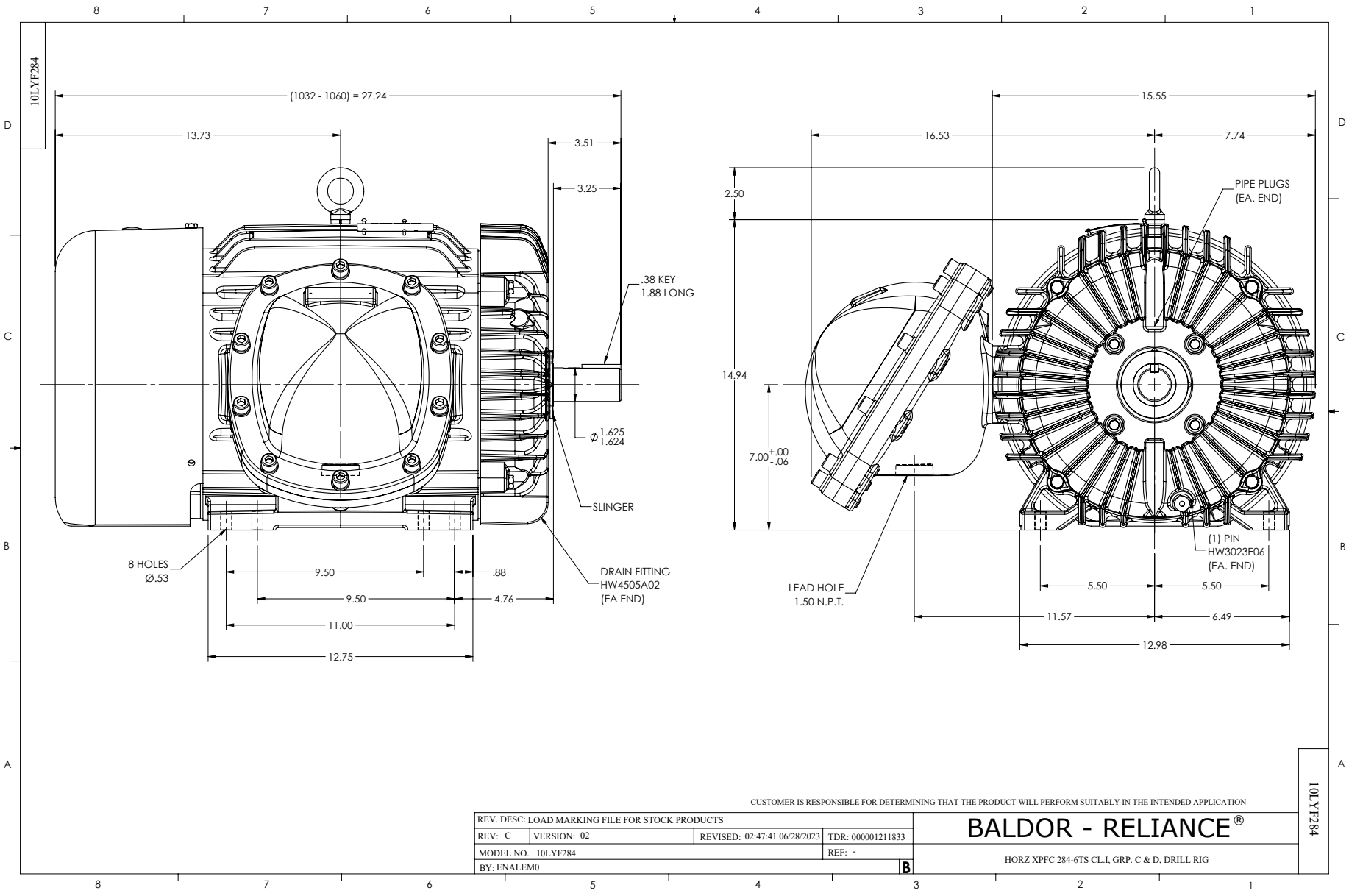
Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			66/33//68/34
R.P.M.			3520//2920
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	90
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	44.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	164 LB-FT
Pull-up Torque	64.7 LB-FT
Locked-rotor Torque	85.2 LB-FT
Starting Current	219 A
No-load Current	8.74 A
Line-line Res. @ 25ºC	0.217 Ω
Temp. Rise @ Rated Load	59°C
Temp. Rise @ S.F. Load	74°C
Locked-rotor Power Factor	27
Rotor inertia	1.97 LB-FT2

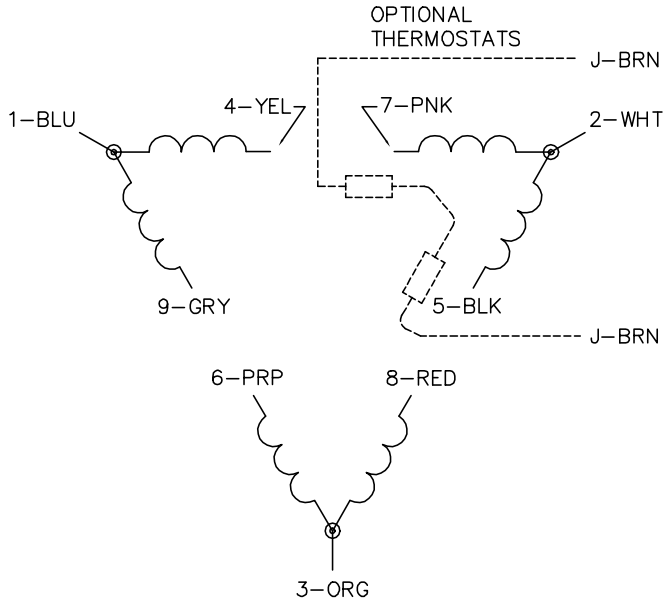
Load Characteristics 380 V, 50 Hz, 25 HP

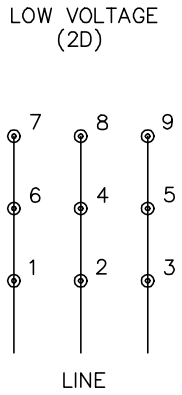
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	84	89	91	92	91	92
Efficiency	88.5	92.3	92.8	92	91.4	90.2	91.6
Speed	2981	2963	2946	2927	2906	2883	2914
Line amperes	12	18.5	25.5	33.6	42.3	51.7	38.8

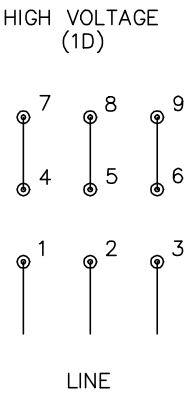

ABB Motors and Mechanical Inc.
WINDING # 10WGZ035
Typical performance - not guaranteed values.
25 HP 3 PH 50 HZ 2927 RPM 380 V 1046M
TORQUES(LB-FT): PO=164 PU=64.7 LR=85.2 LRA=219
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/21/2026 ACPERF, record # 53268


10LYF284
(1032 - 1060) = 27.24
13.73
3.51
3.25
.38 KEY
1.88 LONG
Ø 1.625
1.624
SLINGER
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
PIPE PLUGS
(EA. END)
14.94
7.00 +.00 -.06
LEAD HOLE
1.50 N.P.T.
(1) PIN
HW3023E06
(EA. END)
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: C
VERSION: 02
REVISED: 02:47:41 06/28/2023
TDR: 000001211833
MODEL NO. 10LYF284
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TS CL.I, GRP. C & D, DRILL RIG
10LYF284

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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