ABB BALDOR RELIANCE

Customer information packet

XM282522T

25HP, 3520//2925RPM, 3PH, 60//50HZ, 284TS, XP
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	284TS
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
	20.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
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	27.000 A @ 380.0 V
	28.000 A @ 460.0 V
	54.000 A @ 190.0 V
	56.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ273
Layout	10LYE900
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	06-24-2020

Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	27.0 a
Insulation Class	B
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.24 IN
Power Factor	90
Product Family	Hazardous Location Motor
Pulley Face Code	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
Speed	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

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	10-0000-1577			**INV.TYPE**	PWM						
CAT.NO.	XM282522T			**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	56/28//54/27			**MAG CUR**	14/7						
RPM	3520//2925			**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**	2.07				
FRAME	284TS	**RATING**	40C AMB-CONT								
	1.15SF ON SINEWAVE										
	NEMA MG-1,PT.5,IP54										

AC Induction Motor Performance Data
Record # 66217
Typical performance - not guaranteed values

Winding: 10WGZ273-R010	**Type:** 1048M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			25	**Full Load Torque**	37.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			56/28	**Breakdown Torque**	103 LB-FT
R.P.M.			3520	**Pull-up Torque**	42.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	54 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	171 A
Service Factor (S.F.)			1	**No-load Current**	6.99 A
NEMA Nom. Eff.	91.7	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.29072 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
				Locked-rotor Power Factor	23.3
				Rotor inertia	2.06 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	69	83	89	90	90	90
Efficiency	87.8	91.6	92.2	91.8	90.9	89.7
Speed	3580.1	3563.2	3542.7	3521.3	3497	3469.9
Line amperes	10.1	15.4	21.7	28.3	35.7	43.5

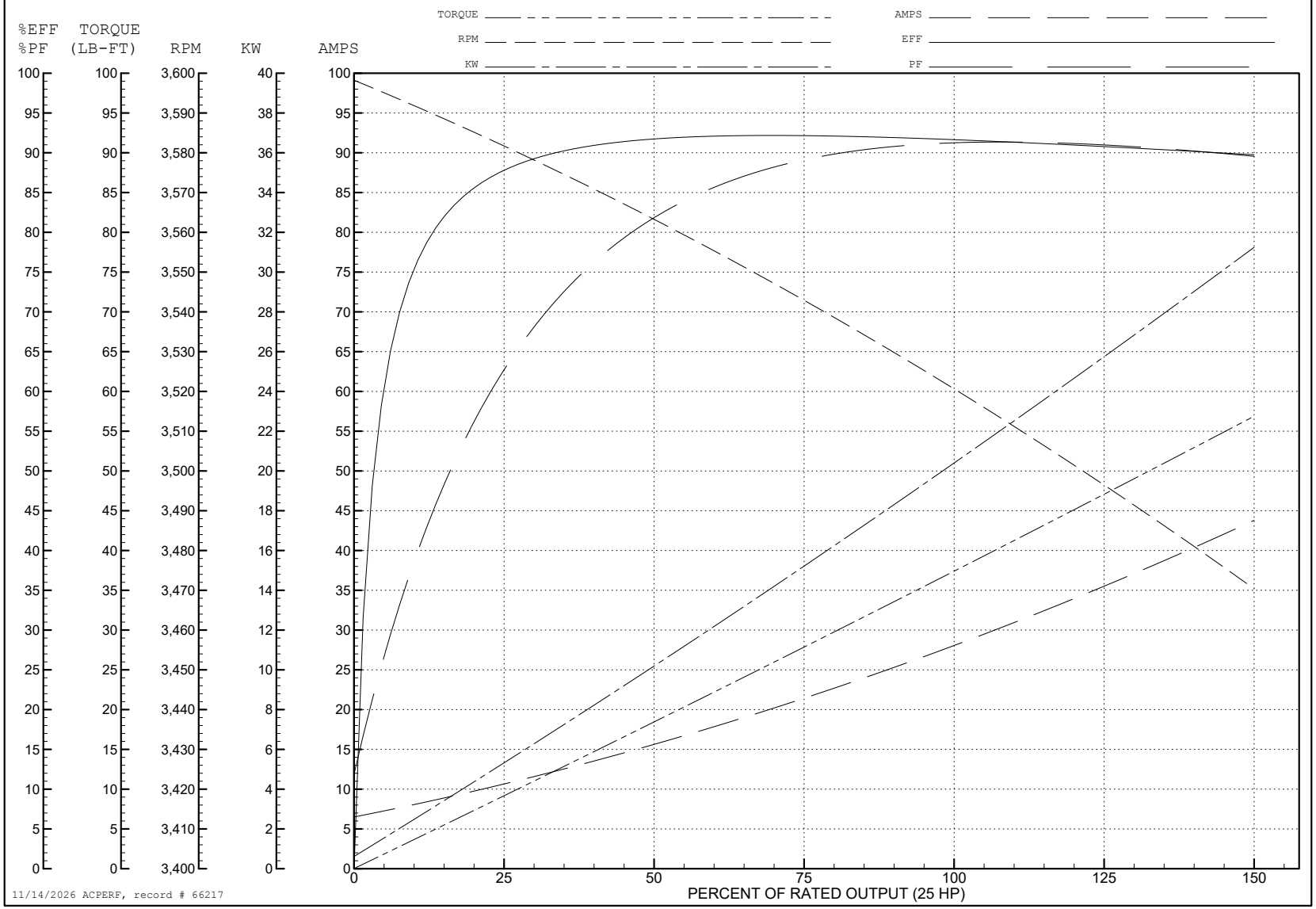
ABB Motors and Mechanical Inc.

WINDING # 10WGZ273

25 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=103 PU=42.1 LR=54 LRA=171



11/14/2026 ACPERF, record # 66217

AC Induction Motor Performance Data
Record # 75690
Typical performance - not guaranteed values

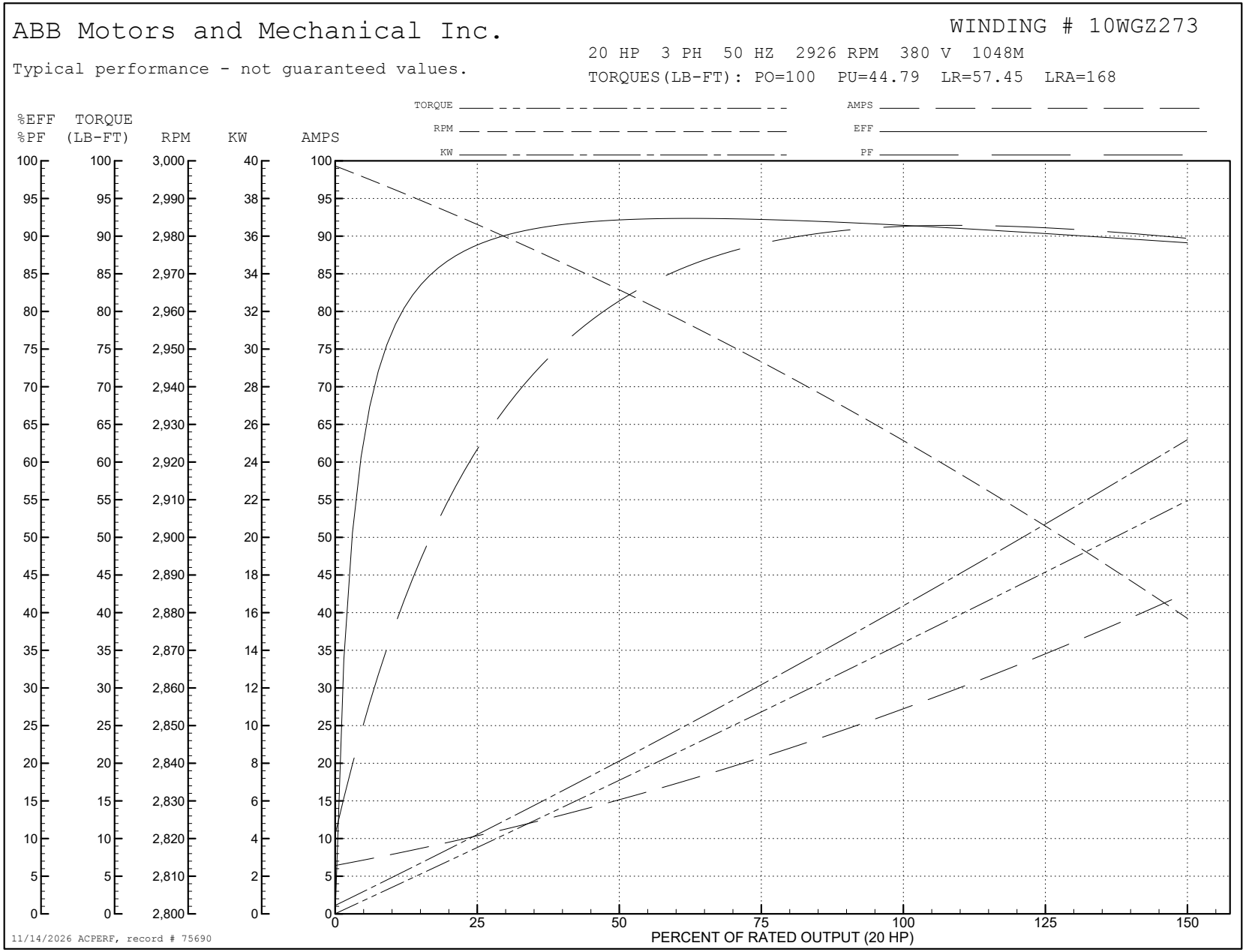
Winding: 10WGZ273-R006	**Type:** 1048M	**Enclosure:** XPFC

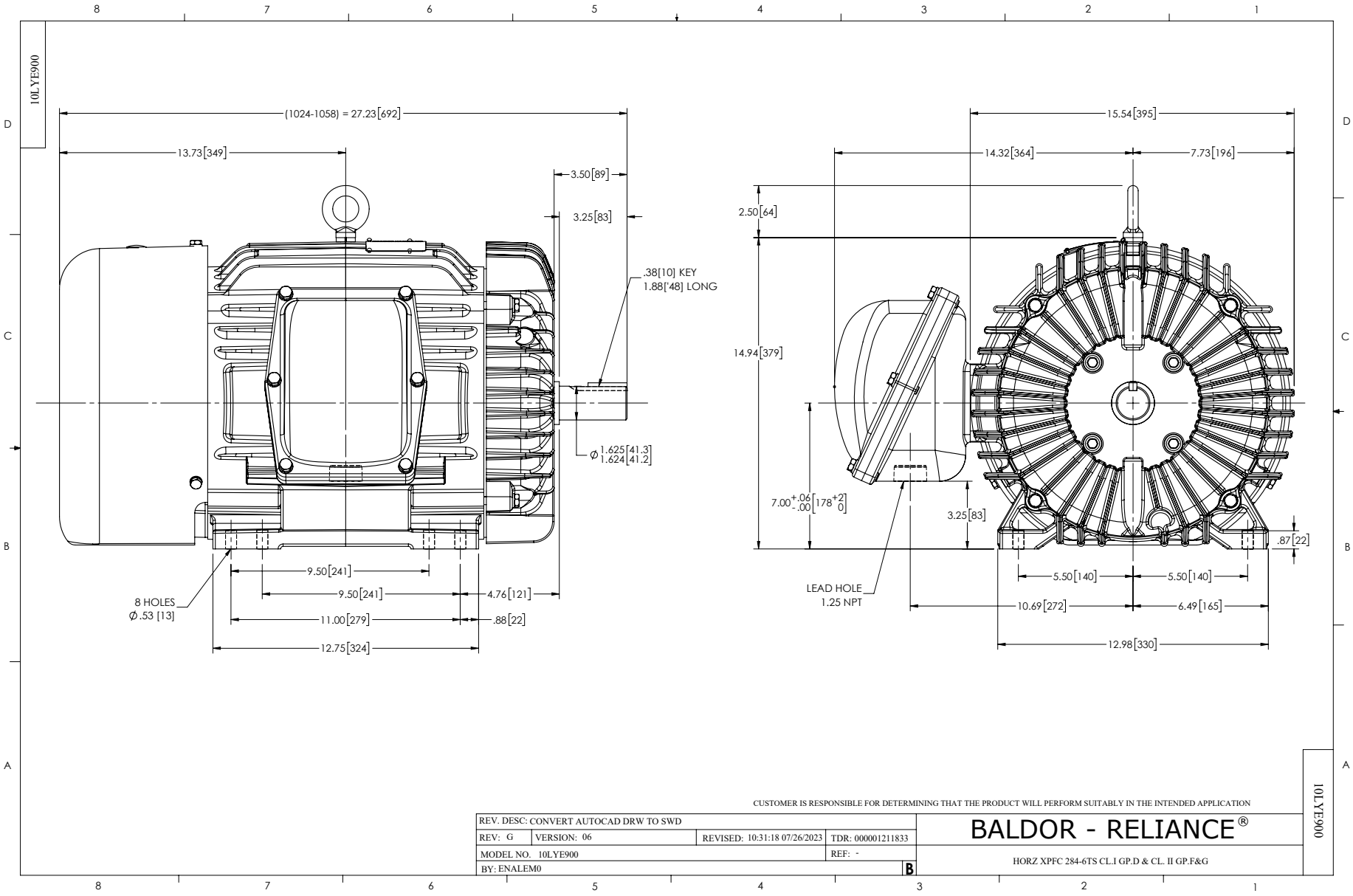
Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			56/28//54/27
R.P.M.			3520//2955
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	F
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	90
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	35.93 LB-FT
Start Configuration	direct on line
Breakdown Torque	100 LB-FT
Pull-up Torque	44.79 LB-FT
Locked-rotor Torque	57.45 LB-FT
Starting Current	168 A
No-load Current	6.91 A
Line-line Res. @ 25ºC	0.295 Ω
Temp. Rise @ Rated Load	55°C
Temp. Rise @ S.F. Load	69°C
Locked-rotor Power Factor	26.3
Rotor inertia	2.06 LB-FT2

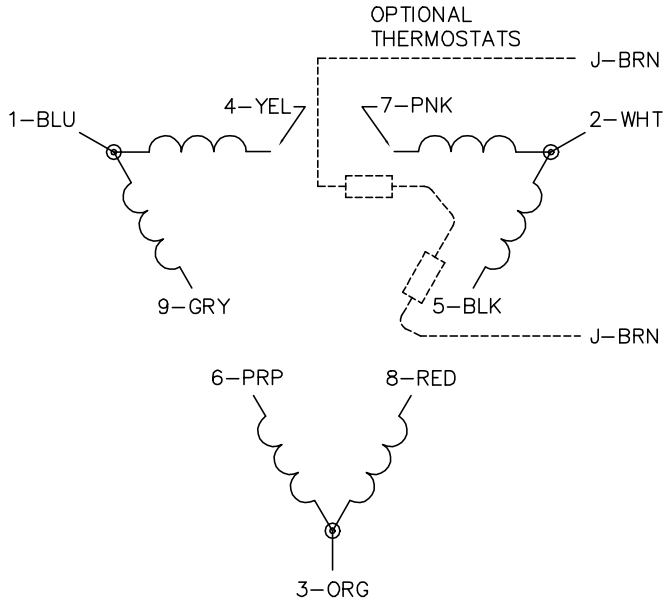
Load Characteristics 380 V, 50 Hz, 20 HP

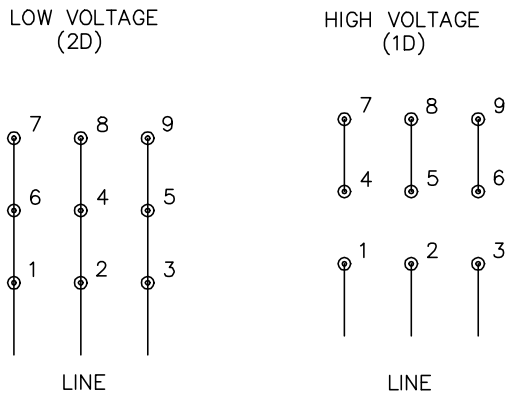
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	67	82	88	90	90	90
Efficiency	88.7	92	92.2	91.5	90.4	89
Speed	2982	2966	2946	2926	2904	2878
Line amperes	9.81	14.92	21.05	27.48	34.66	42.37


ABB Motors and Mechanical Inc.
WINDING # 10WGZ273
Typical performance - not guaranteed values.
20 HP 3 PH 50 HZ 2926 RPM 380 V 1048M
TORQUES(LB-FT): PO=100 PU=44.79 LR=57.45 LRA=168
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/14/2026 ACPERF, record # 75690


10LYE900
(1024-1058) = 27.23[692]
13.73[349]
3.50[89]
3.25[83]
.38[10] KEY
1.88['48] LONG
Ø 1.625[41.3]
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8 HOLES
Ø .53 [13]
15.54[395]
14.32[364]
7.73[196]
2.50[64]
14.94[379]
7.00 +.06 -.00 [178 +2 0]
3.25[83]
.87[22]
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5.50[140]
LEAD HOLE
1.25 NPT
10.69[272]
6.49[165]
12.98[330]
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: G
VERSION: 06
REVISED: 10:31:18 07/26/2023
TDR: 000001211833
MODEL NO. 10LYE900
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TS CL.I GP.D & CL. II GP.F&G
10LYE900

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