ABB BALDOR RELIANCE

Customer information packet

XM25162T

56M 6P XPFC HOR 256T T'STATS INV DUTY
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	256T
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	7.500 HP @ 50 HZ
	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	CSA EEV
	UL
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	14.000 A @ 380.0 V
	15.000 A @ 460.0 V
	28.000 A @ 190.0 V
	30.000 A @ 230.0 V
	30.400 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	M
Type	AC
Mech. spec.	09E270
Base	
Status	PRD/A
Elec. spec.	09WGZ383
Layout	09LYE270
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	03-27-2019

Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	14.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0956M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.50 IN
Power Factor	70
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	None
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1180 rpm
	980 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.	09E270Z383G3			**INV.TYPE**	PWM						
CAT.NO.	XM25162T			**C HP FR**	60	**C HP TO**	90				
HP	10//7.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	30/15//28/14		**MAG CUR**	16/8							
RPM	1180//980		**MX RPM**	1800							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91				
SER.F.	1.15	**DES**	A	**SL HZ**	1	**WK2**	4.5				
FRAME	256T	**RATING**	40C AMB-CONT								
	55C AMB @1.0SF ON VFD,60C RISE										
	NEMA MG-1 PT.5,IP54										

AC Induction Motor Performance Data
Record # 31471
Typical performance - not guaranteed values

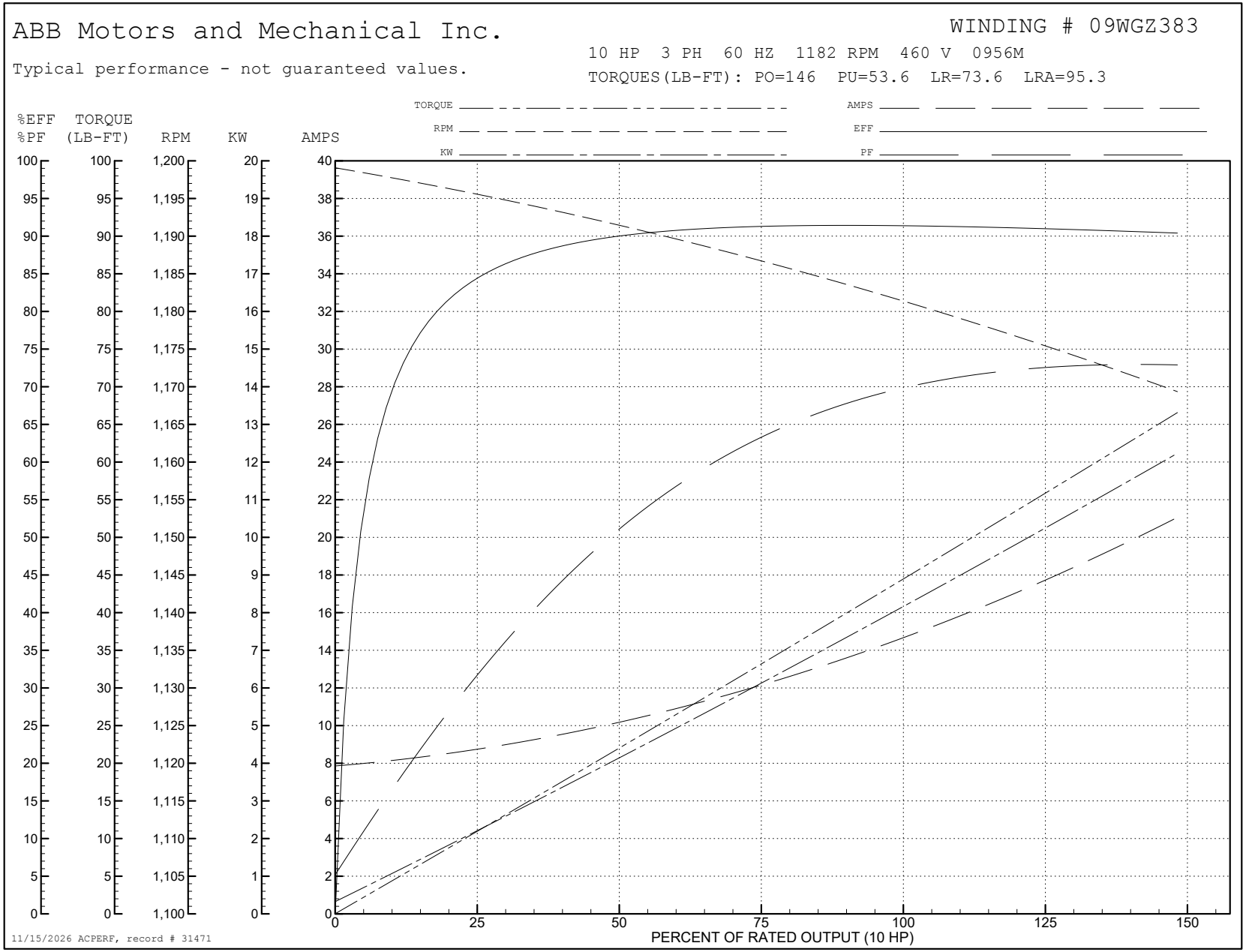
Winding: 09WGZ383-R005	**Type:** 0956M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			29.2/14.6//27.4/13.7
R.P.M.			1180//980
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91	**Power Factor**	70
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	146 LB-FT
Pull-up Torque	53.6 LB-FT
Locked-rotor Torque	73.6 LB-FT
Starting Current	95.3 A
No-load Current	7.9 A
Line-line Res. @ 25ºC	0.66 Ω
Temp. Rise @ Rated Load	45°C
Temp. Rise @ S.F. Load	54°C
Locked-rotor Power Factor	24
Rotor inertia	4.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	63	70	72	73	71
Efficiency	83.7	89.8	91.4	91.6	91.1	90.3	91.3
Speed	1196	1191	1186	1182	1176	1169	1178
Line amperes	8.74	10.1	12.2	14.7	17.7	21	16.5


ABB Motors and Mechanical Inc.
WINDING # 09WGZ383
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 1182 RPM 460 V 0956M
TORQUES(LB-FT): PO=146 PU=53.6 LR=73.6 LRA=95.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/15/2026 ACPERF, record # 31471

AC Induction Motor Performance Data
Record # 31472
Typical performance - not guaranteed values

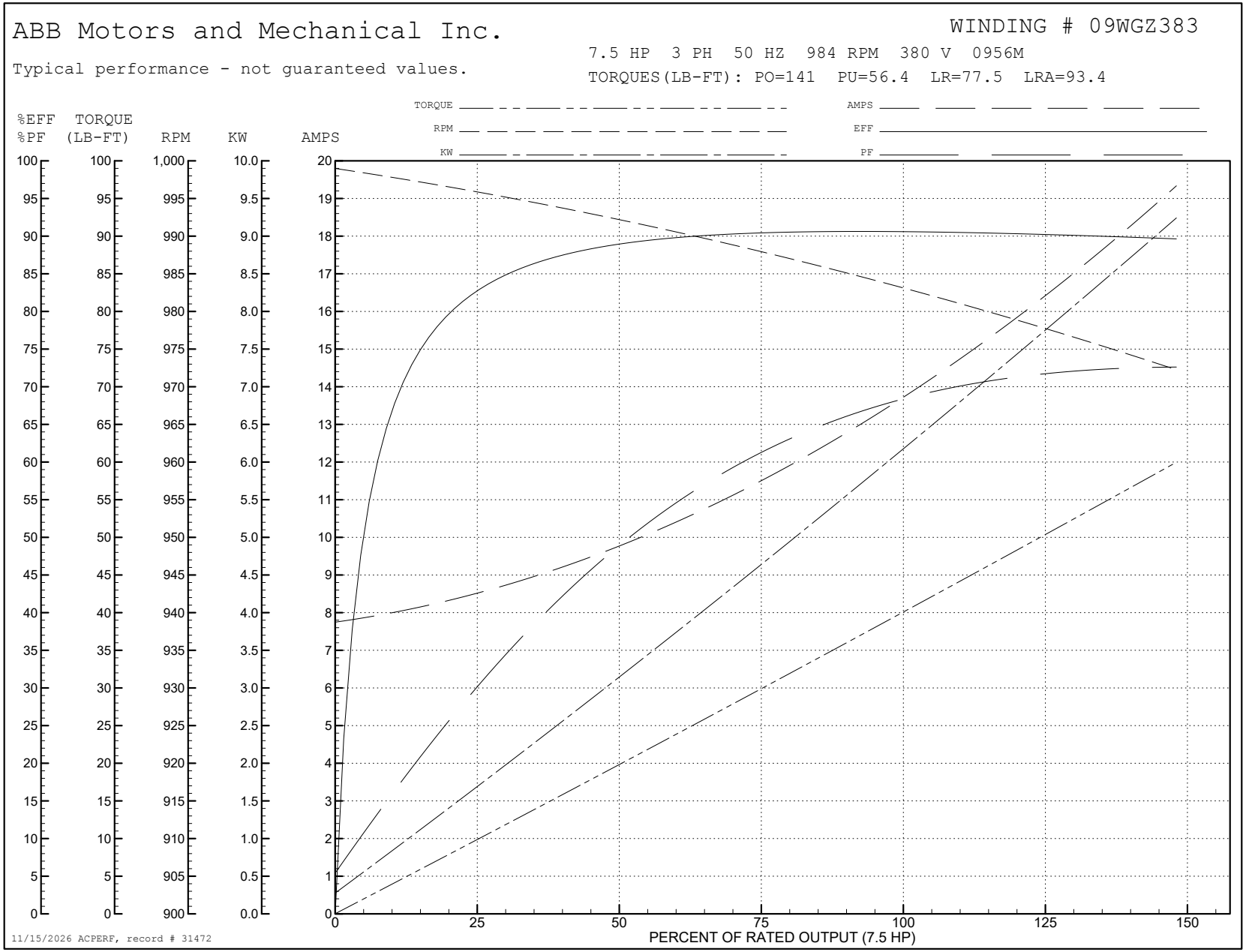
Winding: 09WGZ383-R005	**Type:** 0956M	**Enclosure:** XPFC

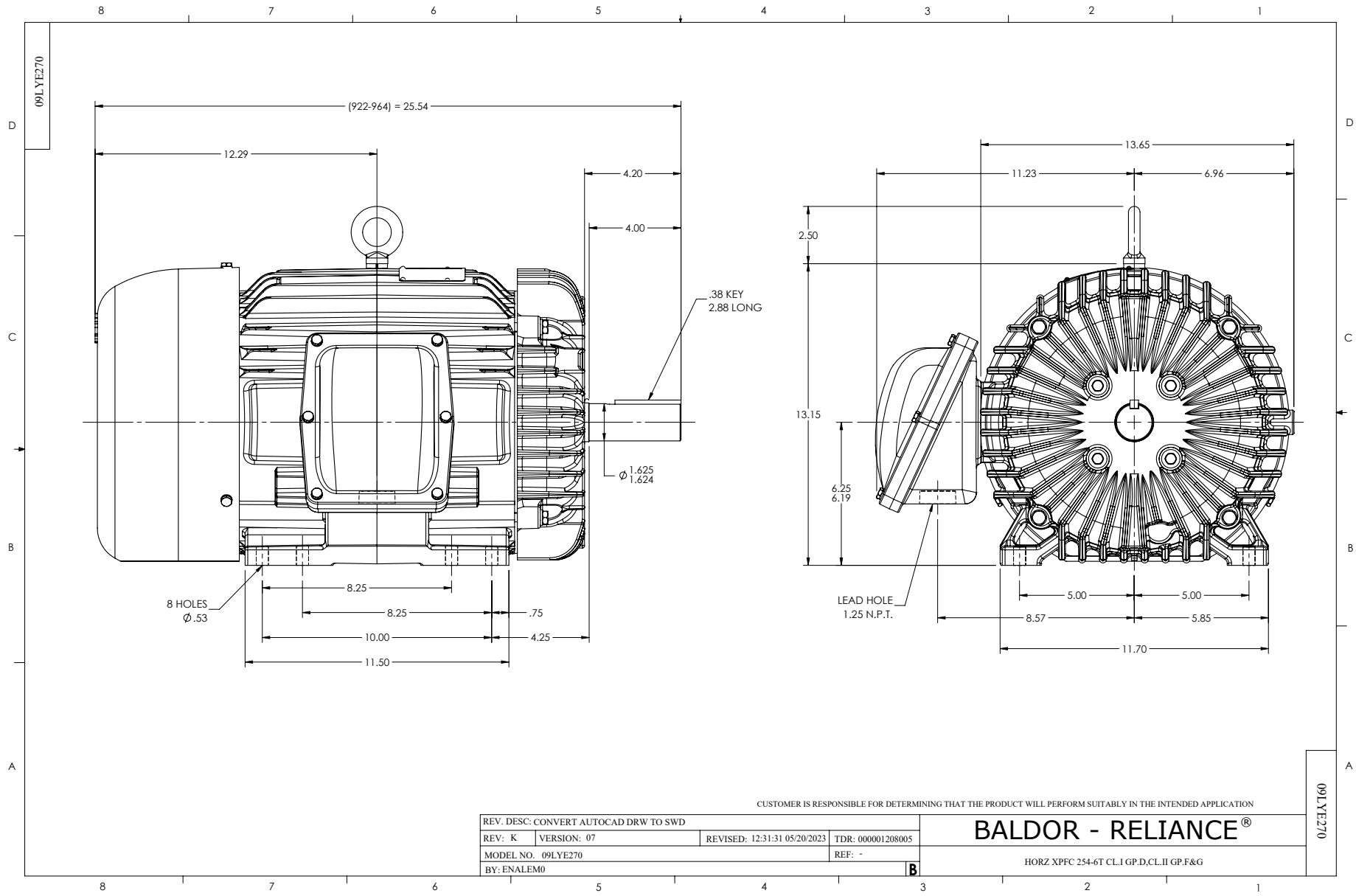
Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			29.2/14.6//27.4/13.7
R.P.M.			1180//980
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91	**Power Factor**	70
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	40 LB-FT
Start Configuration	direct on line
Breakdown Torque	141 LB-FT
Pull-up Torque	56.4 LB-FT
Locked-rotor Torque	77.5 LB-FT
Starting Current	93.4 A
No-load Current	7.77 A
Line-line Res. @ 25ºC	0.66 Ω
Temp. Rise @ Rated Load	40°C
Temp. Rise @ S.F. Load	48°C
Locked-rotor Power Factor	27
Rotor inertia	4.5 LB-FT2

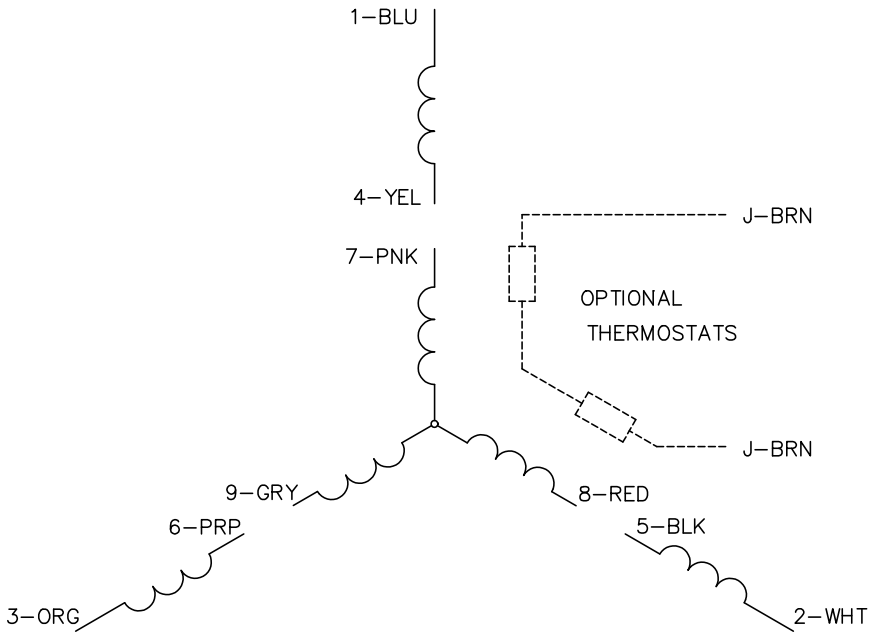
Load Characteristics 380 V, 50 Hz, 7.5 HP

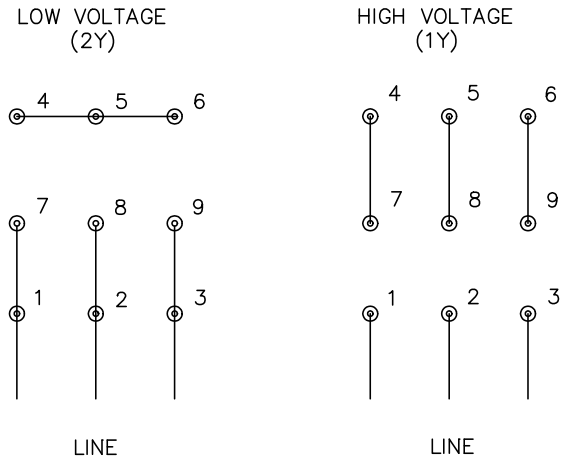
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	50	61	68	71	73	70
Efficiency	82.1	88.8	90.4	90.8	90.4	89.5	90.6
Speed	996	992	987	984	978	972	980
Line amperes	8.54	9.72	11.6	13.7	16.4	19.3	15.3


ABB Motors and Mechanical Inc.
WINDING # 09WGZ383
7.5 HP 3 PH 50 HZ 984 RPM 380 V 0956M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=141 PU=56.4 LR=77.5 LRA=93.4
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/15/2026 ACPERF, record # 31472


09LYE270
(922-964) = 25.54
12.29
4.20
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.25
11.50
13.65
11.23
6.96
2.50
13.15
6.25
6.19
LEAD HOLE
1.25 N.P.T.
5.00
5.00
8.57
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: K
VERSION: 07
REVISED: 12:31:31 05/20/2023
TDR: 000001208005
MODEL NO. 09LYE270
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 254-6T CL.I GP.D,CL.II GP.F&G
09LYE270

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS