

ABB BALDOR RELIANCE III

Customer information packet

EM7056T-5

20HP, 1770RPM, 3PH, 60HZ, 256T, 0960M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	256T
Frame Material	Iron
Frequency	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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 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
Current @ Voltage	19.200 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	19.2 a
Insulation Class	B

Part Detail

Revision	Q
Type	AC
Mech. spec.	09E270
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LYE270
Eff. date	02-15-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	11-17-2017

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.54 IN
Power Factor	83
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	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP1426XPSLEV									
NO.			CC		010A				
SER.									
SPEC.	09E270T507G1								
CAT.NO.									
HP	20	T. CODE			T3C				
VOLTS	575								
AMPS	19.2								
RPM	1770								
HZ	60	PH		3	CL		B		
SER.F.	1.00	DES		A		CODE		J	
RATING	40C AMB-CONT								
FRAME	256T	NEMA-NOM-EFF						93	
	PF		83						
BLANK									

AC Induction Motor Performance Data

Record # 1312

Typical performance - not guaranteed values

Winding: 09WGW772-R001			Type: 0952M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		20	Full Load Torque		60 LB-FT
Volts		230/460	Start Configuration		direct on line
Full Load Amps		48/24	Breakdown Torque		183 LB-FT
R.P.M.		1765	Pull-up Torque		79 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	120 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	171 A
Service Factor (S.F.)			1.15	No-load Current	8.5 A
NEMA Nom. Eff.	93	Power Factor	84	Line-line Res. @ 25°C	0.4083 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	57°C
S.F. Amps				Temp. Rise @ S.F. Load	69°C
				Locked-rotor Power Factor	32.7
				Rotor inertia	2.27 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	79	84	86	87	85
Efficiency	89.6	92.9	93.5	93.2	92.5	91.6	92.8
Speed	1791	1784	1776	1767	1758	1748	1762
Line amperes	10.17	13.79	18.39	23.89	28.78	34.6	26.82

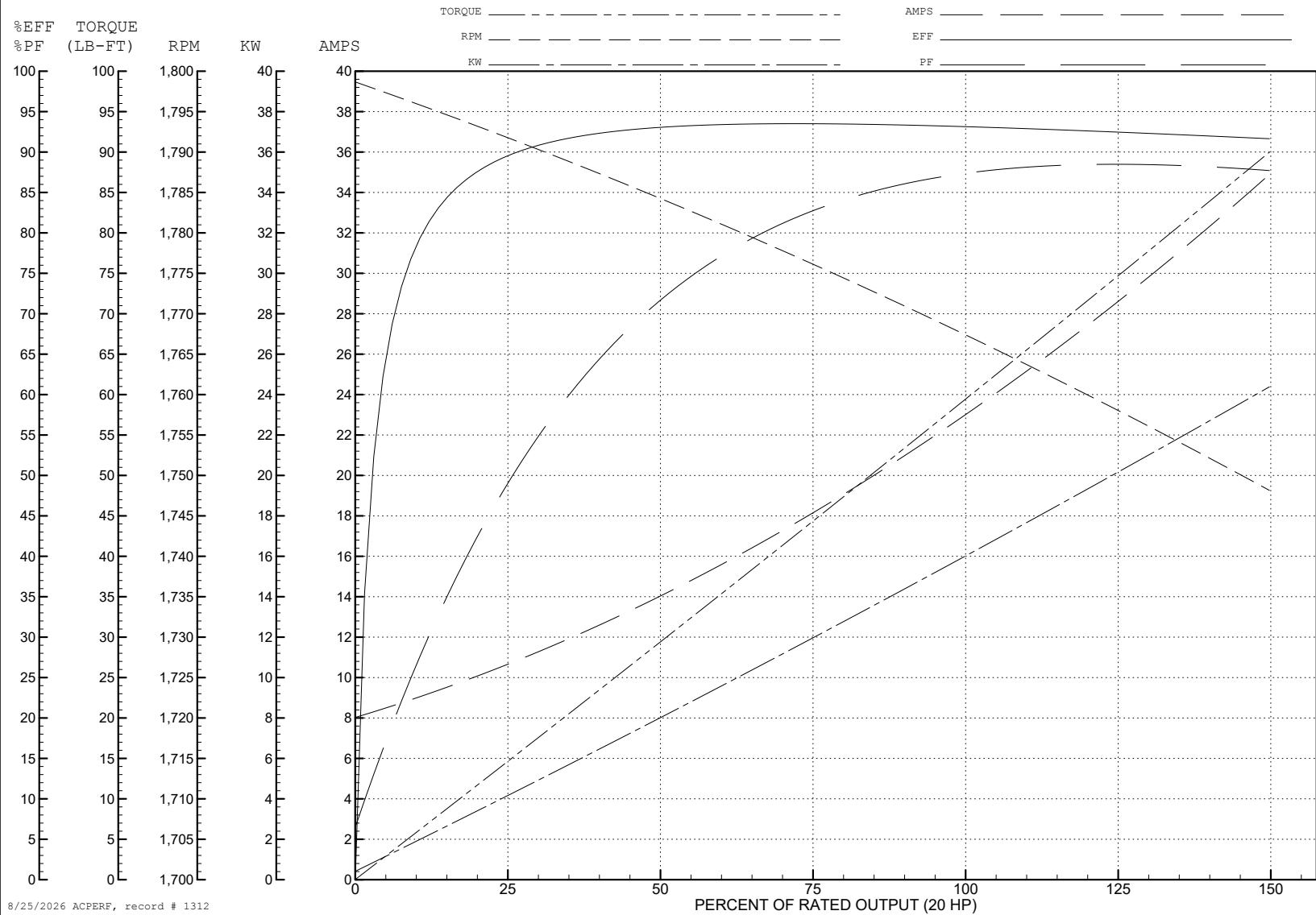
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WINDING # 09WGW772

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1765 RPM 460 V 0952M

TORQUES (LB-FT): PO=183 PU=79 LR=120 LRA=171



AC Induction Motor Performance Data

Record # 16580

Typical performance - not guaranteed values

Winding: 09WGW772-R009			Type: 0952M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		20//15		Full Load Torque		54.1 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		48/24//44/22		Breakdown Torque		185 LB-FT		
R.P.M.		1765//1465		Pull-up Torque		81.1 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		123 LB-FT	
NEMA Design Code		A	KVA Code		H	Starting Current		166 A
Service Factor (S.F.)		1		No-load Current		8.33 A		
NEMA Nom. Eff.		93	Power Factor		84	Line-line Res. @ 25°C		0.414 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C		
				Locked-rotor Power Factor		36.1		
				Rotor inertia		2.27 LB-FT2		

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	50	72	81	84	88	89
Efficiency	88.3	92.5	93.2	92.8	91.9	90.8
Speed	1492	1485	1478	1470	1462	1453
Line amperes	9.8	13	17.1	22	26.4	31.6

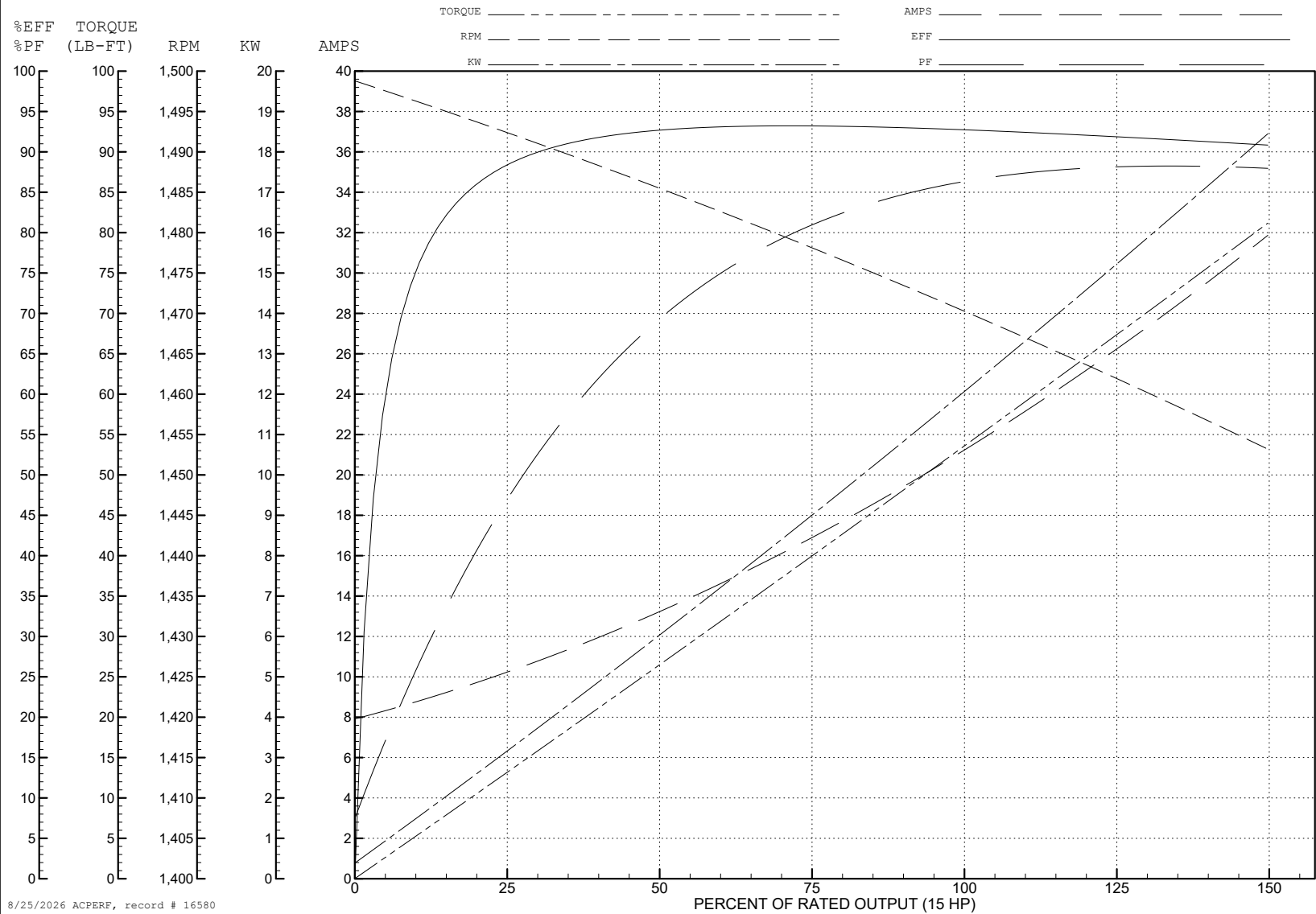
ABB Motors and Mechanical Inc.

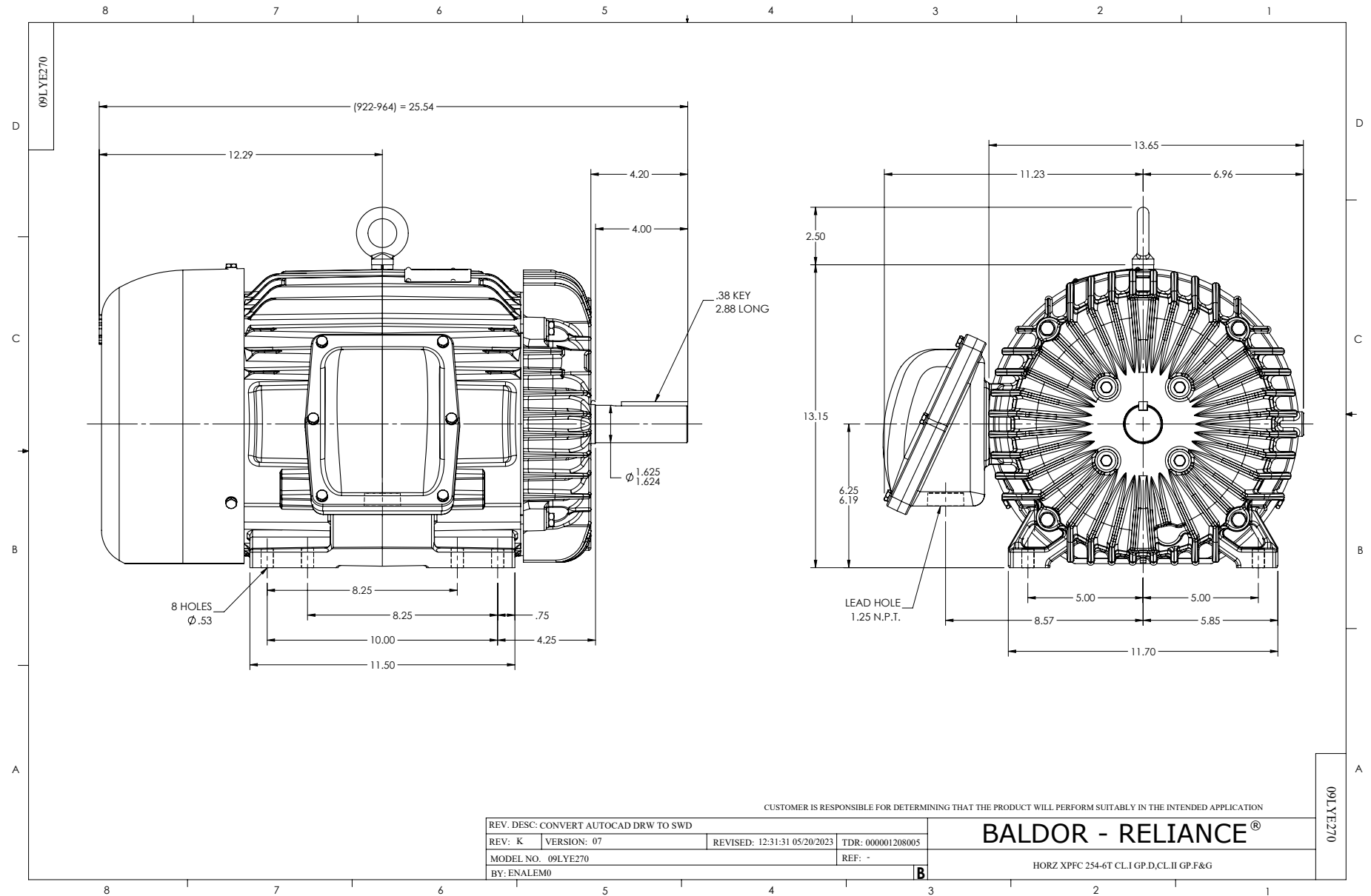
WINDING # 09WGW772

Typical performance - not guaranteed values.

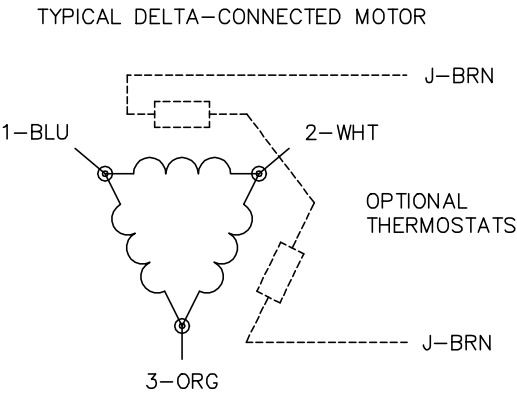
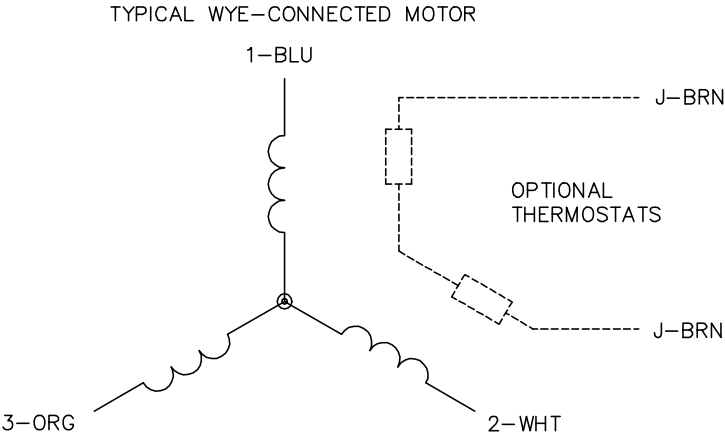
15 HP 3 PH 50 HZ 1470 RPM 380 V 0952M

TORQUES (LB-FT): PO=185 PU=81.1 LR=123 LRA=166





CD0006



- NOTES:
1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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