

ABB BALDOR RELIANCE III

Customer information packet

CBXM18542T

5//3HP, 1750//1465RPM, 3PH, 60//50HZ, 184TC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
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	3.000 HP @ 50 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 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	6.500 A @ 460.0 V 5.200 A @ 380.0 V 13.800 A @ 208.0 V 13.000 A @ 230.0 V 10.400 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGW352
Layout	06LYJ271
Eff. date	06-23-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-07-2021

Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 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	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.83 IN
Power Factor	80
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1750 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.	06-0000-0916					INV.TYPE	PWM					
CAT.NO.	CBXM18542T					C HP FR	60	C HP TO	90			
HP	5//3					CT HZ FROM	6	CT HZ TO	60			
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60			
AMPS	13/6.5//10.4/5.2				MAG CUR	6.8/3.4						
RPM	1750//1465				MX RPM	2700						
HZ	60//50	PH	3	CL	F	NOM.EFF.	90.2					
SER.F.	1.15	DES	B	SL HZ	1.7	WK2	0.37					
FRAME	184TC	RATING	40C AMB-CONT									
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data

Record # 88318

Typical performance - not guaranteed values

Winding: 06WGW352-R037			Type: 0640M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5//3		Full Load Torque		15 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		13/6.5//10.4/5.2		Breakdown Torque		59.5 LB-FT		
R.P.M.		1750//1465		Pull-up Torque		26.5 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		43.5 LB-FT	
NEMA Design Code		B		KVA Code	J	Starting Current		44.7 A
Service Factor (S.F.)		1		No-load Current		3.26 A		
NEMA Nom. Eff.		90.2	Power Factor		80	Line-line Res. @ 25°C		2.44 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		40°C
						Locked-rotor Power Factor		52.1
						Rotor inertia		0.372 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	62	75	82	86	88
Efficiency	83.9	89	90	89.9	89.2	88.2
Speed	1789	1778	1767	1756	1743	1730
Line amperes	3.54	4.22	5.19	6.34	7.62	9.03

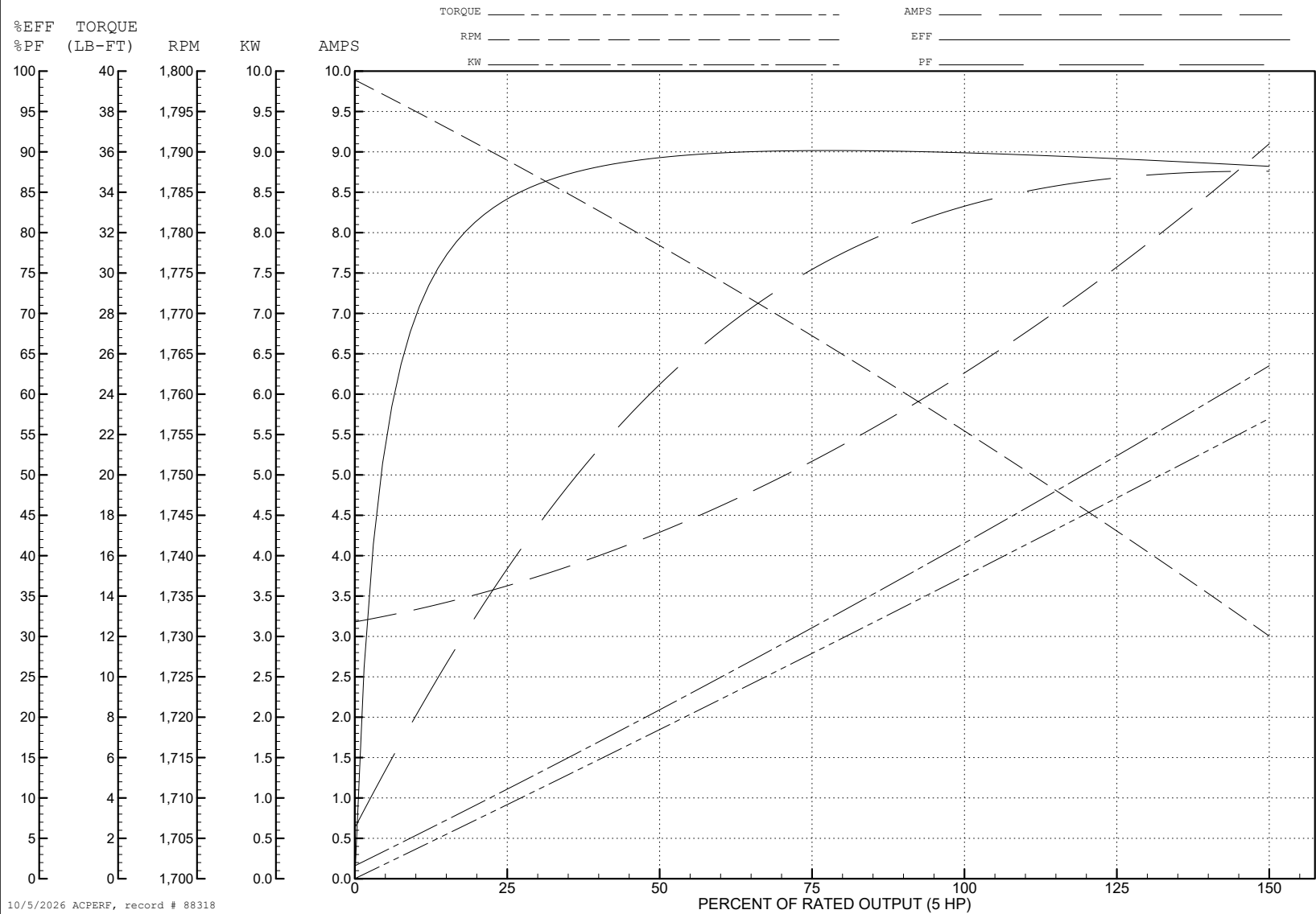
ABB Motors and Mechanical Inc.

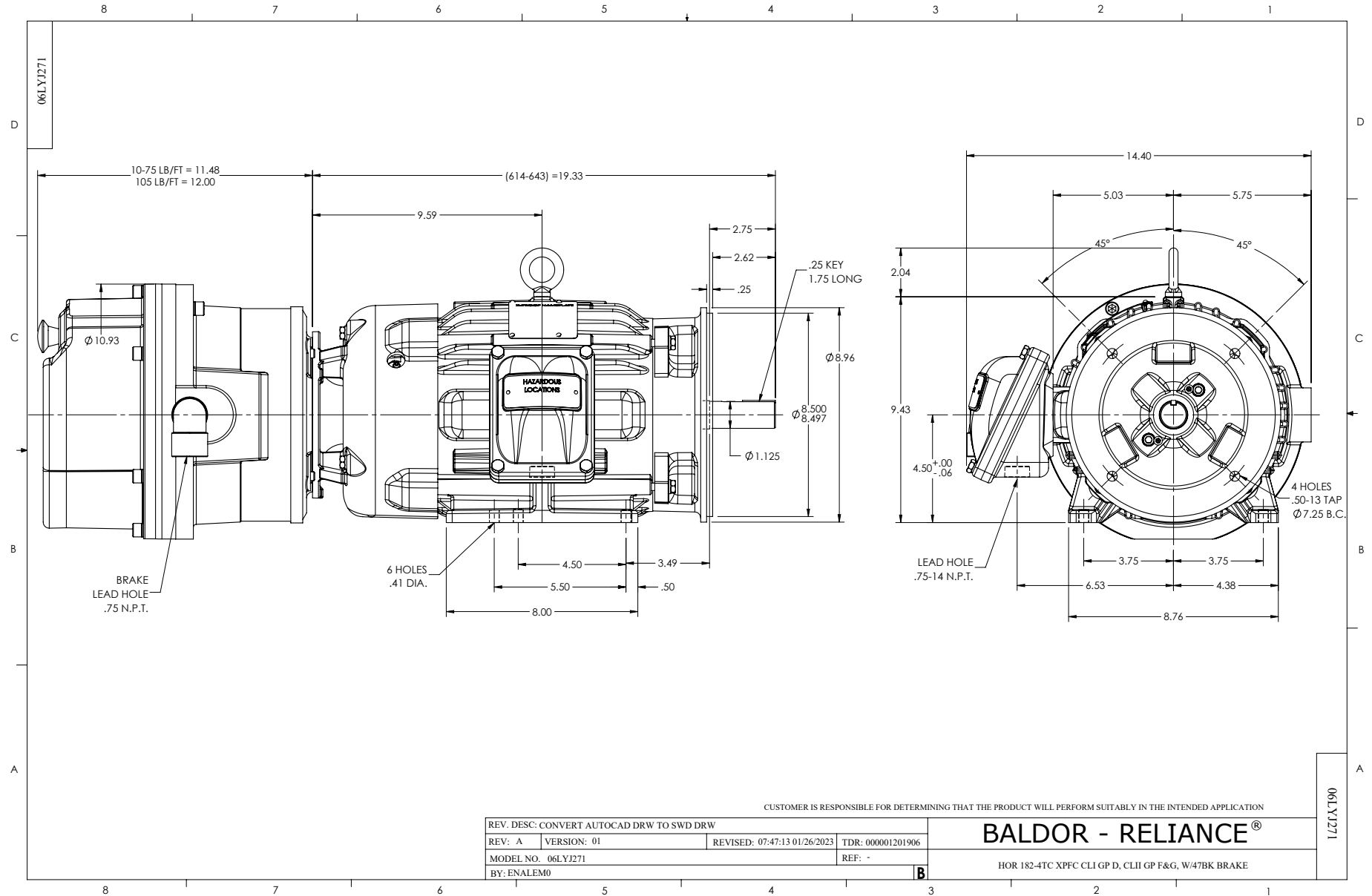
WINDING # 06WGW352

Typical performance - not guaranteed values.

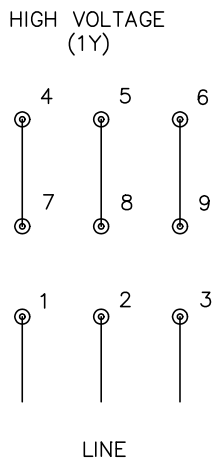
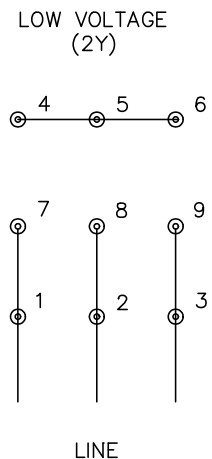
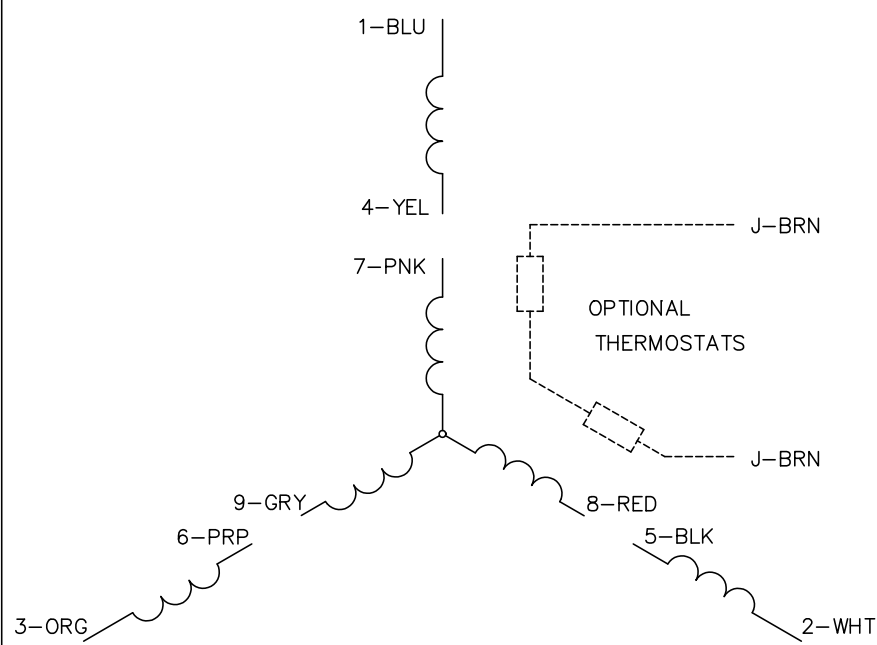
5 HP 3 PH 60 HZ 1756 RPM 460 V 0640M

TORQUES (LB-FT): PO=59.5 PU=26.5 LR=43.5 LRA=44.7





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005