

ABB BALDOR RELIANCE III

Customer information packet

DRX18524T

5HP, 3500//2900RPM, 3PH, 60HZ, 184T, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	184T
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	5.000 HP @ 60 HZ 3.000 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	11.000 A @ 230.0 V 4.200 A @ 380.0 V 5.500 A @ 460.0 V 8.400 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGW431
Layout	06LY-000-044
Eff. date	02-28-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	03-21-2019

Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0640M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.56 IN
Power Factor	96
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3500 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

NP1401XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE		T3C			
SPEC.	06-0000-0055						INV.TYPE		PWM			
CAT.NO.	DRX18524T						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	11/5.5//8.4/4.2				MAG CUR		3/1.5					
RPM	3500//2900				MX RPM		5400					
HZ	60//50	PH	3	CL	F	NOM.EFF.		88.5				
SER.F.	1.00	DES	A	SL HZ	1.7	WK2	0.18					
FRAME	184T	RATING		40C AMB-CONT								
	55C AMB @1.0SF											
	1.15SF SINEWAVE						NEMA MG-1 PT 5,IP55					

AC Induction Motor Performance Data

Record # 72833

Typical performance - not guaranteed values

Winding: 06WGW431-R028				Type: 0640M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		7.61 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		11/5.5//8.4/4.2		Breakdown Torque		35.64 LB-FT	
R.P.M.		3500//2900		Pull-up Torque		26.7 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		L	
Service Factor (S.F.)		1		No-load Current		1.55 A	
NEMA Nom. Eff.		88.5		Power Factor		96	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		49°C	
				Locked-rotor Power Factor		43	
				Rotor inertia		0.179 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	75	88	95	96	96	93
Efficiency	75.1	83.3	85.8	86.2	85.7	84.8
Speed	3562	3533	3503	3470	3435	3398
Line amperes	2.14	3.27	4.38	5.7	7.1	8.72

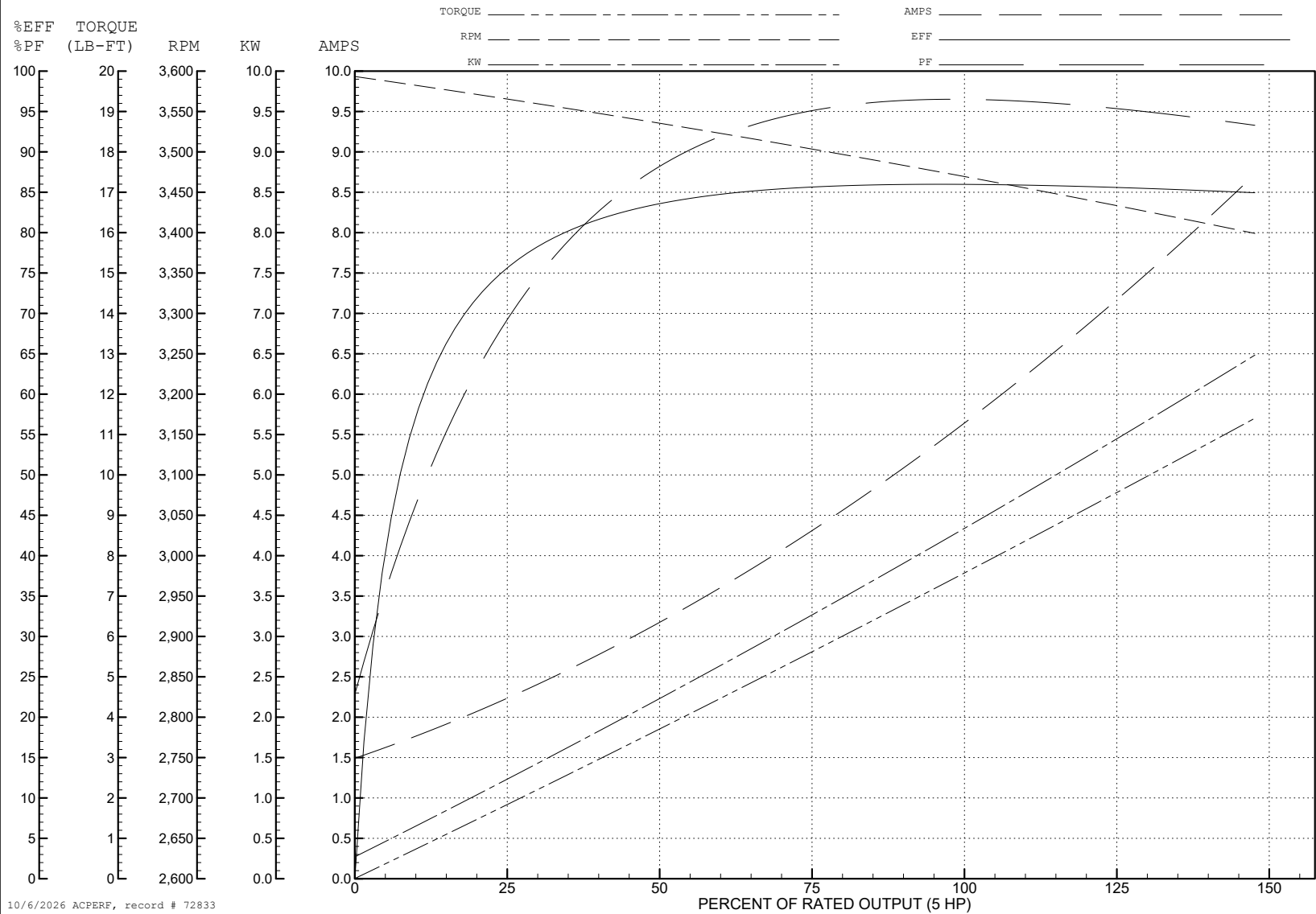
ABB Motors and Mechanical Inc.

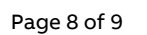
WINDING # 06WGW431

Typical performance - not guaranteed values.

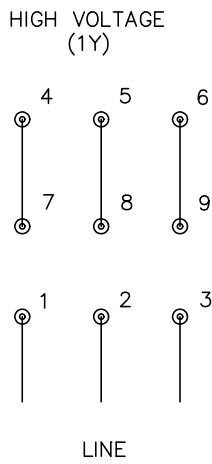
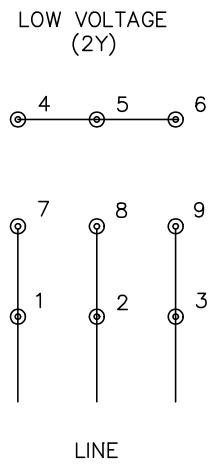
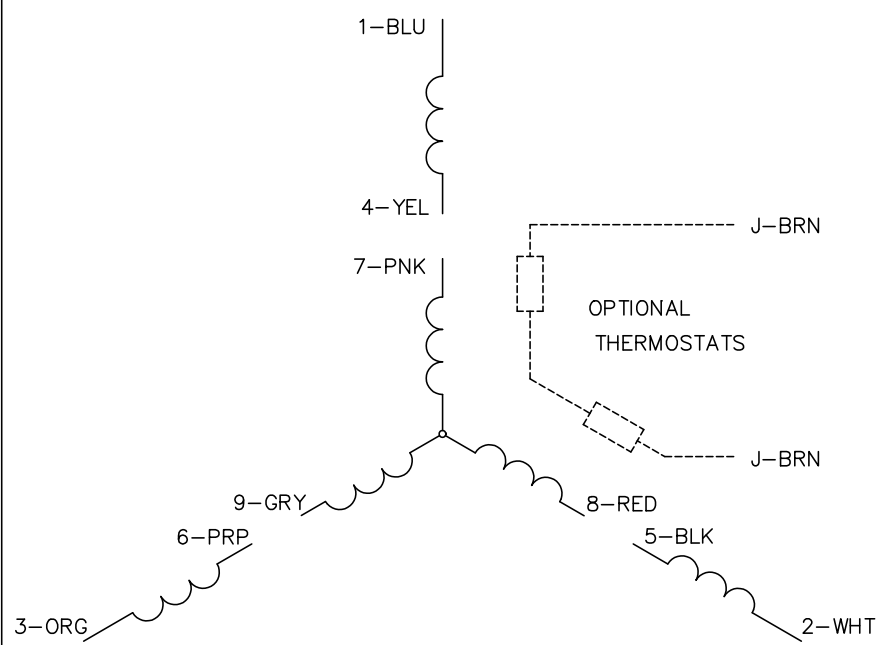
5 HP 3 PH 60 HZ 3470 RPM 460 V 0640M

TORQUES (LB-FT): PO=35.64 PU=26.7 LR=30.8 LRA=62.3





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