

ABB BALDOR RELIANCE III

Customer information packet

DRX18324T-5

3HP, 3460RPM, 3PH, 60HZ, 182T, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	182T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	3.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX177
Layout	06LY-000-044
Eff. date	02-28-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	07-17-2019

IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0618M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.56 IN
Power Factor	87
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	3460 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.	06-0000-0169						INV.TYPE	PWM				
CAT.NO.	DRX18324T-5						C HP FR	60	C HP TO	90		
HP	3						CT HZ FROM	6	CT HZ TO	60		
VOLTS	575						VT HZ FROM	6	VT HZ TO	60		
AMPS	3						MAG CUR	1.4				
RPM	3460						MX RPM	5400				
HZ	60	PH	3	CL	F	NOM.EFF.	86.5					
SER.F.	1.00	DES	B	SL HZ	2.2	WK2	0.079					
FRAME	182T	RATING	40C AMB-CONT									
	55C AMB @1.0SF											
	1.15SF SINEWAVE						NEMA MG-1 PT 5,IP55					

AC Induction Motor Performance Data

Record # 77534

Typical performance - not guaranteed values

Winding: 06WGX177-R008			Type: 0618M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		4.51 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		3	Breakdown Torque		27.3 LB-FT		
R.P.M.		3460	Pull-up Torque		9.75 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	12.8 LB-FT
NEMA Design Code		B	KVA Code		K	Starting Current	24.6 A
Service Factor (S.F.)		1				No-load Current	1.39 A
NEMA Nom. Eff.		86.5	Power Factor		87	Line-line Res. @ 25°C	8.6 Ω
Rating - Duty		40C	AMB-CONT			Temp. Rise @ Rated Load	43°C
						Locked-rotor Power Factor	57.2
						Rotor inertia	0.0795 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	44	67	79	85	89	90
Efficiency	81.1	86.8	87.9	87.2	85.9	84
Speed	3569	3540	3508	3472	3436	3390
Line amperes	1.53	1.89	2.4	3	3.64	4.39

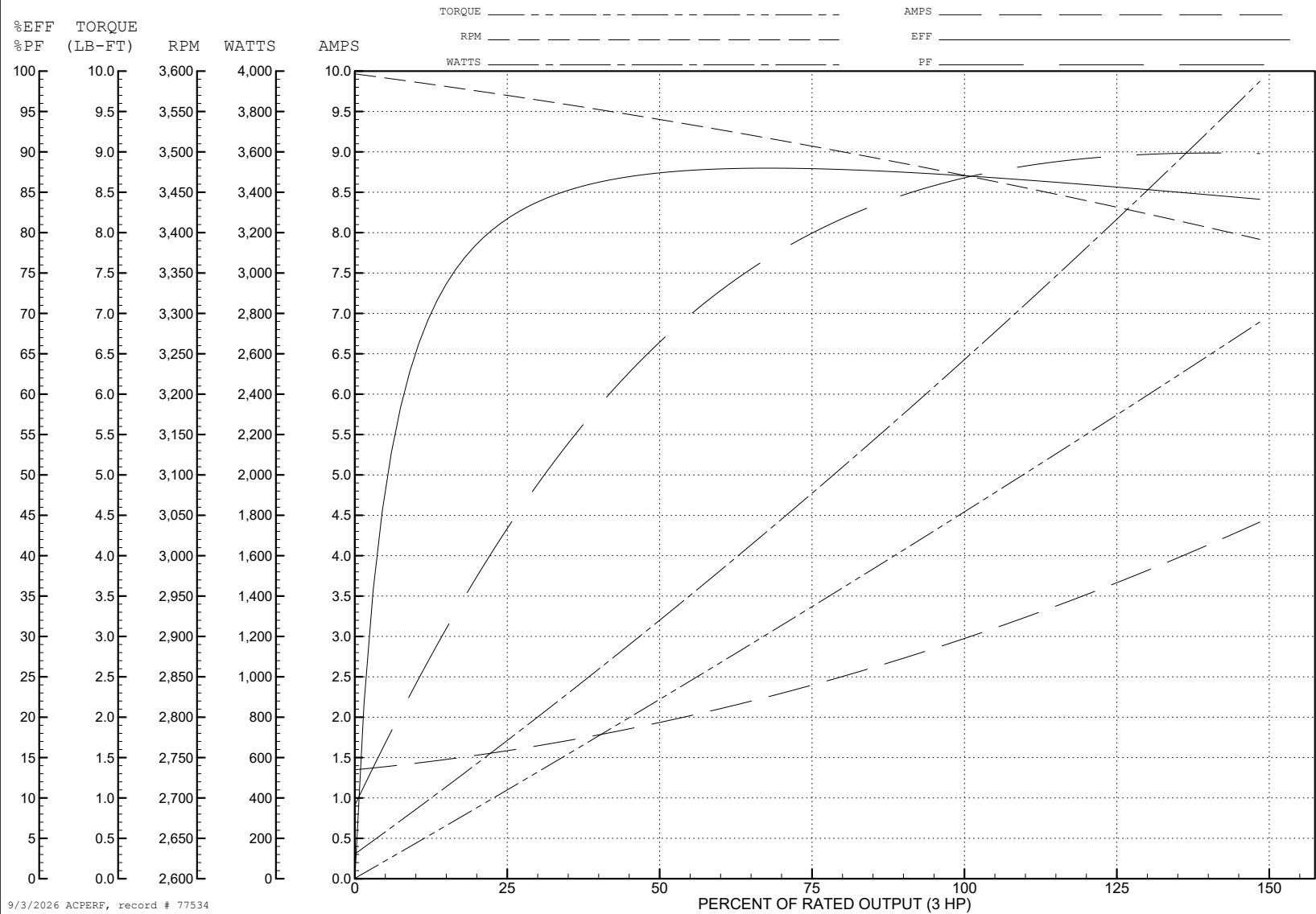
ABB Motors and Mechanical Inc.

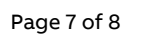
WINDING # 06WGX177

Typical performance - not guaranteed values.

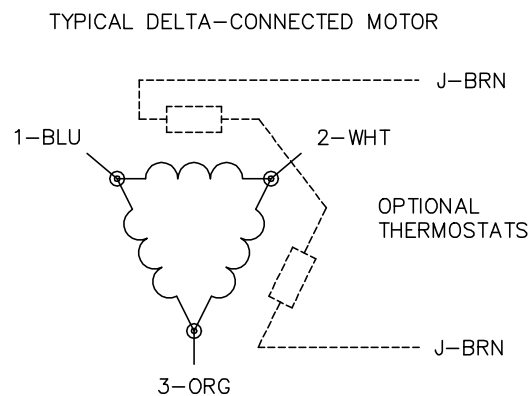
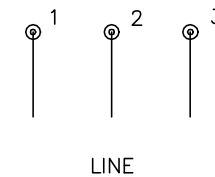
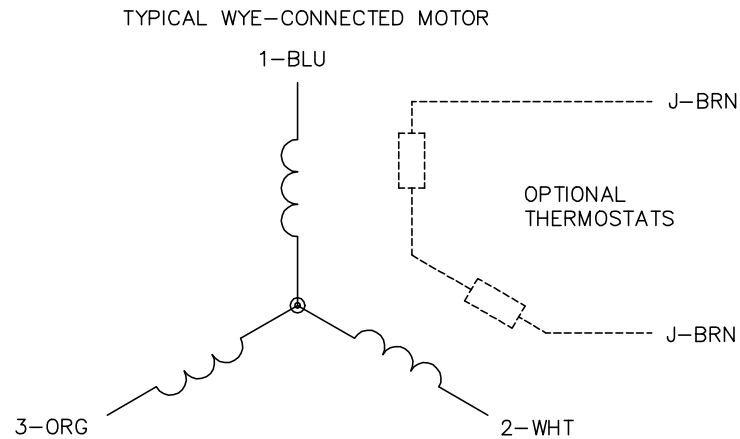
3 HP 3 PH 60 HZ 3460 RPM 575 V 0618M

TORQUES (LB-FT): PO=27.3 PU=9.75 LR=12.8 LRA=24.6





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

SH 1 of 1