ABB BALDOR RELIANCE

Customer information packet

18K079X050

300//250HP, 1785//1485RPM, 3PH, 60/50HZ, 449
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Frame	449TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
Haz Area Division	Division I
Output @ Frequency	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	Flying Leads
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	328.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	328.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G

Part Detail

Revision	Z
Type	AC
Mech. spec.	18K079
Base	
Status	NLA/A
Elec. spec.	18WGX050
Layout	18LYK079
Eff. date	01-10-2012
CD Diagram	CD0006
Poles	04
Leads	3#1 (02 per group)
Proprietary	False
Created date	01-01-0001

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	18160M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	54.25 IN
Power Factor	90
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 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

Nameplate

NP0978XP											
NO.						**TEMP CODE**	T4				
SPEC.	18K079X050					**DE BRG**	6319				
CAT.NO.						**ODE BRG**	6314				
HP	300//250			**GREASE**	POLYREX EM						
VOLTS	460//380					**MOTOR WEIGHT**	2423				
AMPS	330-328					**NEMA-NOM-EFF**	95				
RPM	1785//1485					**FL PF**	90				
CYCLE	60/50	**PH**	3	**CL**	F	**FRAME**	449TY				
SER.F.	1.00	**DES**	B	**CODE**	G	**CC**					
SER.						**BLANK**					
RATING	40C AMB-CONT										

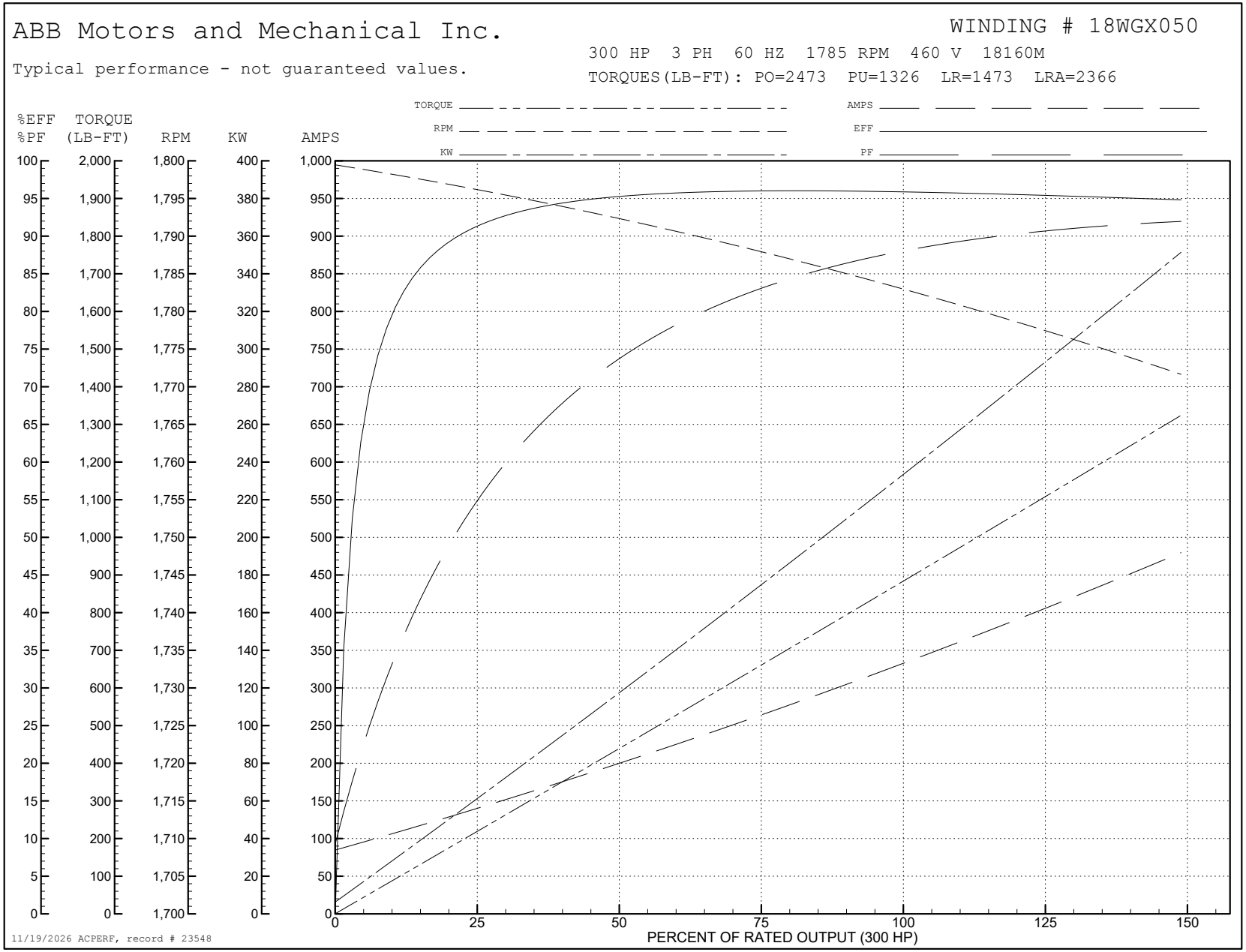
AC Induction Motor Performance Data
Record # 23548
Typical performance - not guaranteed values

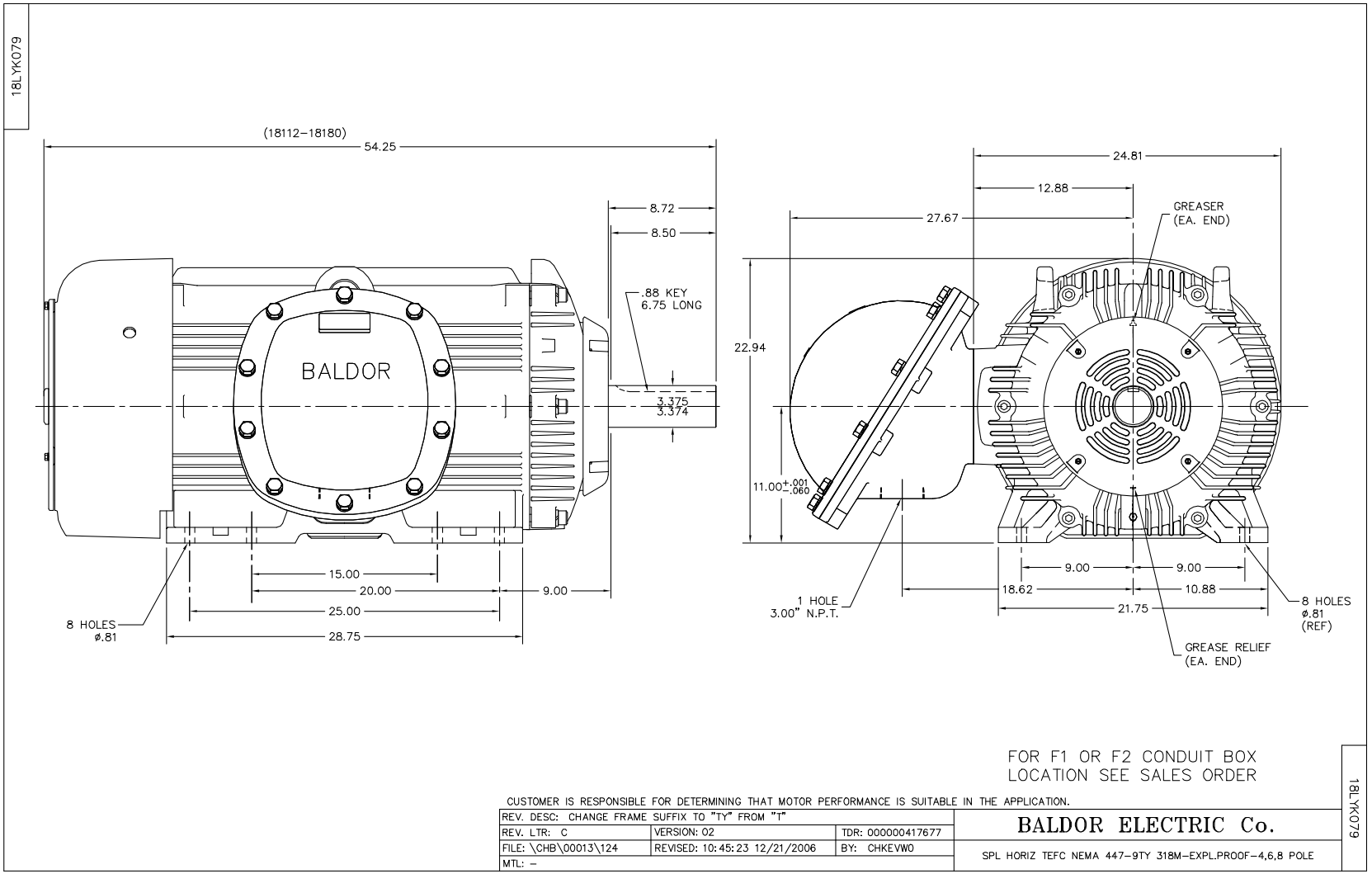
Winding: 18WGX050-R001	**Type:** 18160M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			300	**Full Load Torque**	883 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			328	**Breakdown Torque**	2473 LB-FT
R.P.M.			1785	**Pull-up Torque**	1326 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	1473 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	2366 A
Service Factor (S.F.)			1	**No-load Current**	83 A
NEMA Nom. Eff.	95	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.0122 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	79°C

Load Characteristics 460 V, 60 Hz, 300 HP

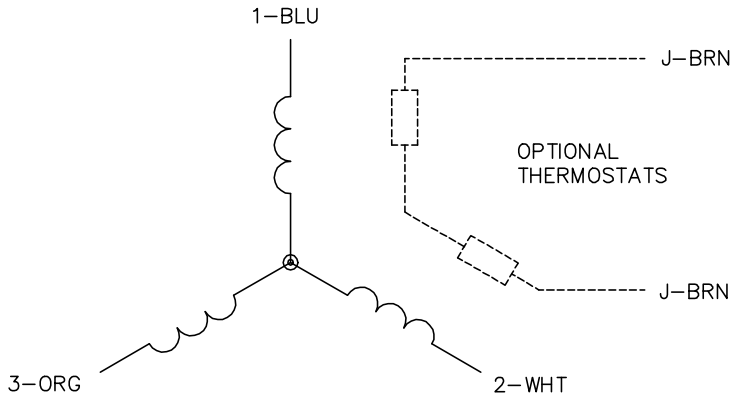
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	66	83	88	90	90	89
Efficiency	90	94	94.6	95	94.3	94
Speed	1796	1791	1788	1784	1778	1771
Line amperes	141	204	266	328	403	482

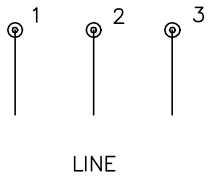

ABB Motors and Mechanical Inc.
WINDING # 18WGX050
300 HP 3 PH 60 HZ 1785 RPM 460 V 18160M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=2473 PU=1326 LR=1473 LRA=2366
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (300 HP)
11/19/2026 ACPERF, record # 23548


18LYK079
(18112–18180)
54.25
8.72
8.50
.88 KEY
6.75 LONG
BALDOR
3.375
3.374
15.00
20.00
25.00
28.75
9.00
8 HOLES
ø.81
24.81
12.88
27.67
GREASER
(EA. END)
22.94
11.00 +.001 -.060
9.00
9.00
18.62
10.88
21.75
1 HOLE
3.00" N.P.T.
8 HOLES
ø.81
(REF)
GREASE RELIEF
(EA. END)
FOR F1 OR F2 CONDUIT BOX
LOCATION SEE SALES ORDER
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
REV. DESC: CHANGE FRAME SUFFIX TO "TY" FROM "T"
REV. LTR: C
VERSION: 02
TDR: 000000417677
FILE: \CHB\00013\124
REVISED: 10:45:23 12/21/2006
BY: CHKEVW0
MTL: –
BALDOR ELECTRIC Co.
SPL HORIZ TEFC NEMA 447–9TY 318M–EXPL.PROOF–4,6,8 POLE
18LYK079

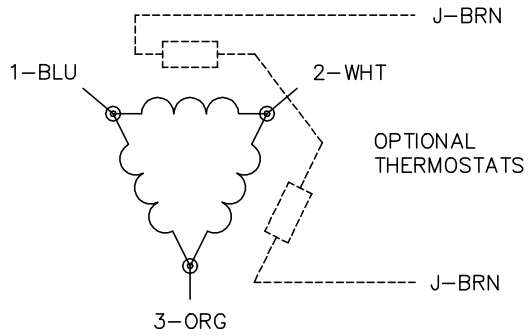
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1