ABB BALDOR RELIANCE

Customer information packet

105W

28M 4P GRNDR W/EXH

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Specifications

Enclosure	TENV
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
	50.00 Hz
	60.00 Hz
Motor Letter Type	Three Phase
Nameplate Output	1.5
Number of Poles	4
	4
Output @ Frequency	1.500 HP @ 50 HZ
	1.500 HP @ 60 HZ
Phase	3
	3
Shaft Diameter	0.875 IN
	0.875 IN
Speed	1500 rpm
	1800 rpm
	1500 rpm
	1800 rpm
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage	575 V
Voltage @ Frequency	575.0 V @ 60 HZ
	575.0 V @ 50 HZ
Agency Approvals	CSA
Ambient Temperature	40 °C
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1.650 A @ 575.0 V
	1.750 A @ 575.0 V
Design Code	-
Duty Rating	CONT

Part Detail

Revision	A
Type	AC
Mech. spec.	G10-163
Base	
Status	PRD/A
Elec. spec.	G0WG0361
Layout	G0LY0163
Eff. date	07-23-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Feedback Device	NO FEEDBACK
Insulation Class	B
KVA Code	-
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	Other
Motor Type	3528M
Mounting Arrangement	F1
Overall Length	24.12 IN
Product Family	Grinder
Service Factor	1.00
Shaft Rotation	Phase Seq-Opp Std Rot (CWODE)
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0113			
CAT.NO.	105W		
HP	1.5	**VOLTS**	575
PHASE	3	**AMPS**	1.75//1.65
HZ	50//60	**RPM**	1500//1800
SER.NO			
SPEC.	G10-163G0361		

Accessories

Part number	Description	Multiplier
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA20E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
GA24	WATER POT	A8
B102	10" 36 GRIT GRINDING WHEEL	A8
B103	10" 60 GRIT GRINDING WHEEL	A8
GA9	PAIR LIGHTED EYESHIELDS	A8
GA9-1	SINGLE LIGHTED EYESHIELD	A8
GA9S	PAIR EYESHIELDS W/ ON-OFF SWITCH	A8
GA11	PAIR EYESHIELDS	A8
DC10	DUST CONTROL UNIT	A8

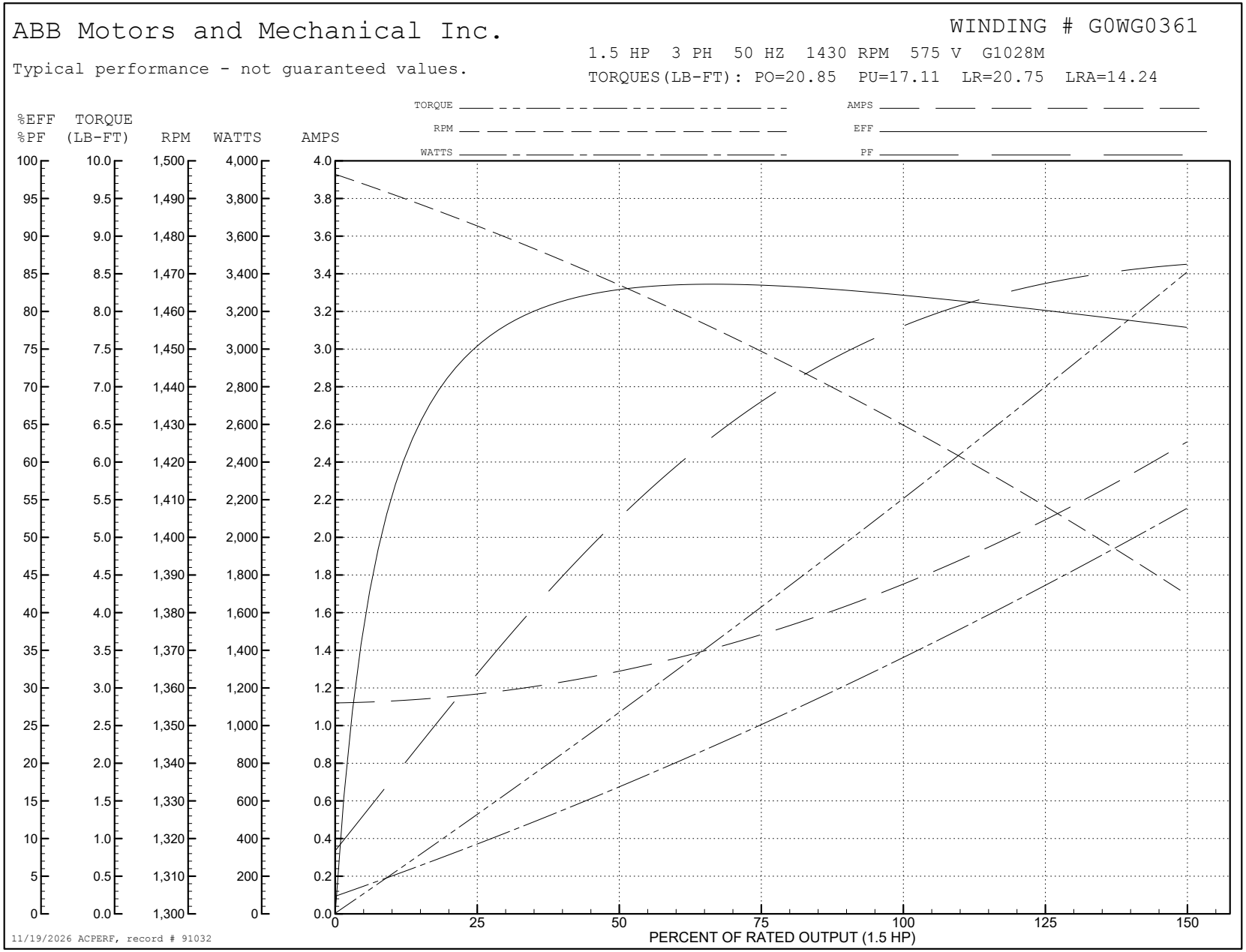
AC Induction Motor Performance Data
Record # 91032
Preliminary Data Sheet

Winding: G0WG0361-R001	**Type:** G1028M	**Enclosure:** TENV

Nameplate Data				**575 V, 50 Hz: Single Voltage Motor**	
Rated Output (HP)			1.5	**Full Load Torque**	5.53 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.75//1.65	**Breakdown Torque**	20.85 LB-FT
R.P.M.			1500//1800	**Pull-up Torque**	17.11 LB-FT
Hz	50//60	**Phase**	3	**Locked-rotor Torque**	20.75 LB-FT
NEMA Design Code	-	**KVA Code**	-	**Starting Current**	14.24 A
Service Factor (S.F.)			1	**No-load Current**	1.13 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	27.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	101°C
				Locked-rotor Power Factor	80.0999
				Rotor inertia	0.202 lb-ft²

Load Characteristics 575 V, 50 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	54	68	77	83	87
Efficiency	74.8	82.2	83.4	82.4	80.5	77.6
Speed	1482	1466	1449	1430	1409	1384
Line amperes	1.16	1.28	1.49	1.77	2.1	2.5


ABB Motors and Mechanical Inc.
WINDING # G0WG0361
1.5 HP 3 PH 50 HZ 1430 RPM 575 V G1028M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=20.85 PU=17.11 LR=20.75 LRA=14.24
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/19/2026 ACPERF, record # 91032

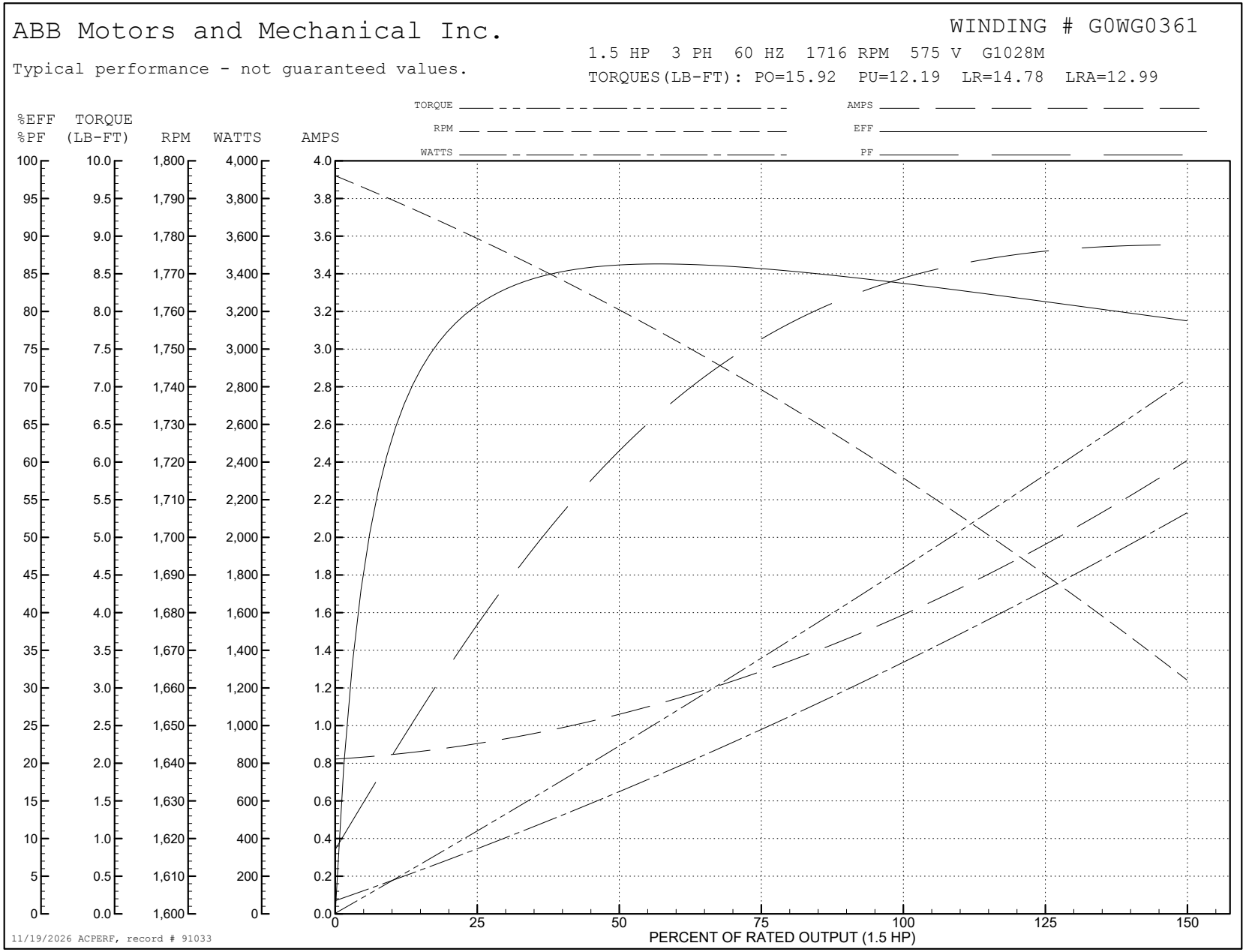
AC Induction Motor Performance Data
Record # 91033
Preliminary Data Sheet

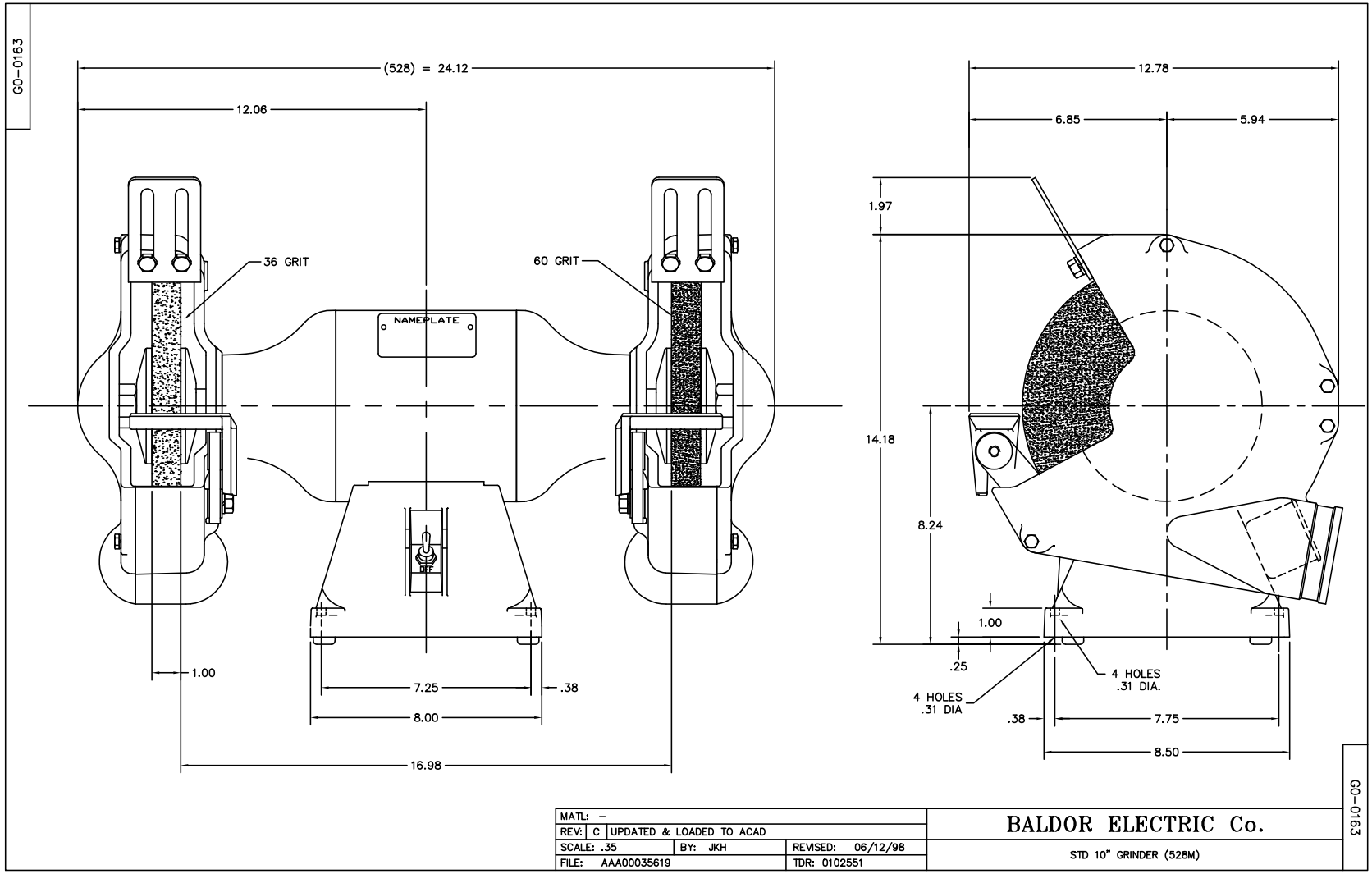
Winding: G0WG0361-R001	**Type:** G1028M	**Enclosure:** TENV

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1.5	**Full Load Torque**	4.61 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.75//1.65	**Breakdown Torque**	15.92 LB-FT
R.P.M.			1500//1800	**Pull-up Torque**	12.19 LB-FT
Hz	50//60	**Phase**	3	**Locked-rotor Torque**	14.78 LB-FT
NEMA Design Code	-	**KVA Code**	-	**Starting Current**	12.99 A
Service Factor (S.F.)			1	**No-load Current**	0.836 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	27.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	82°C
				Locked-rotor Power Factor	73.863
				Rotor inertia	0.202 lb-ft²

Load Characteristics 575 V, 60 Hz, 1.5 HP

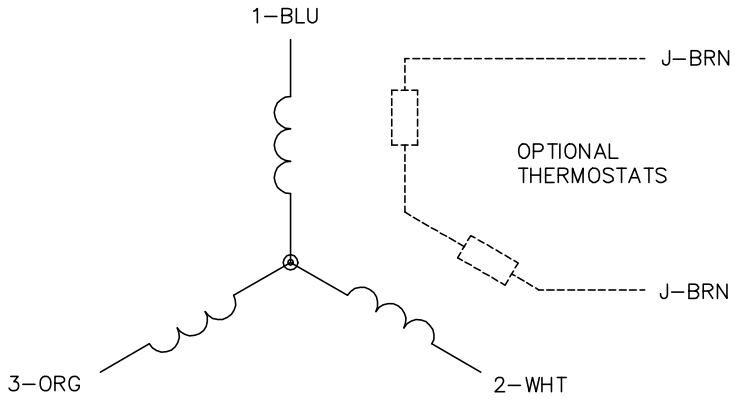
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	40	63	76	83	88	89
Efficiency	80.4	85.5	85.5	83.9	81.6	78.5
Speed	1778	1759	1739	1716	1691	1661
Line amperes	0.891	1.05	1.3	1.61	1.97	2.4

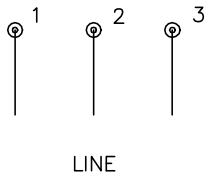

ABB Motors and Mechanical Inc.
WINDING # G0WG0361
1.5 HP 3 PH 60 HZ 1716 RPM 575 V G1028M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=15.92 PU=12.19 LR=14.78 LRA=12.99
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/19/2026 ACPERF, record # 91033


G0-0163
(528) = 24.12
12.06
36 GRIT
60 GRIT
NAMEPLATE
1.00
7.25
.38
8.00
16.98
12.78
6.85
5.94
1.97
14.18
8.24
1.00
.25
4 HOLES
.31 DIA
4 HOLES
.31 DIA.
.38
7.75
8.50
MATL: –
REV: C UPDATED & LOADED TO ACAD
SCALE: .35 BY: JKH REVISED: 06/12/98
FILE: AAA00035619 TDR: 0102551
BALDOR ELECTRIC Co.
STD 10" GRINDER (528M)
G0-0163

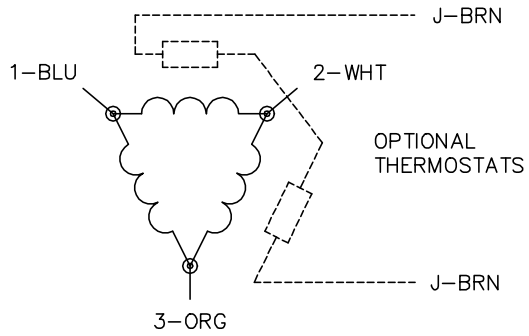
CD0006

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

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