

ABB BALDOR RELIANCE III

Customer information packet

105W

28M 4P GRNDR W/EXH

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	GOLY0163
Eff. date	07-23-2024
CD Diagram	CD00006
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 (CWOE)
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	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	Line-line Res. @ 25°C	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-ft ²

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

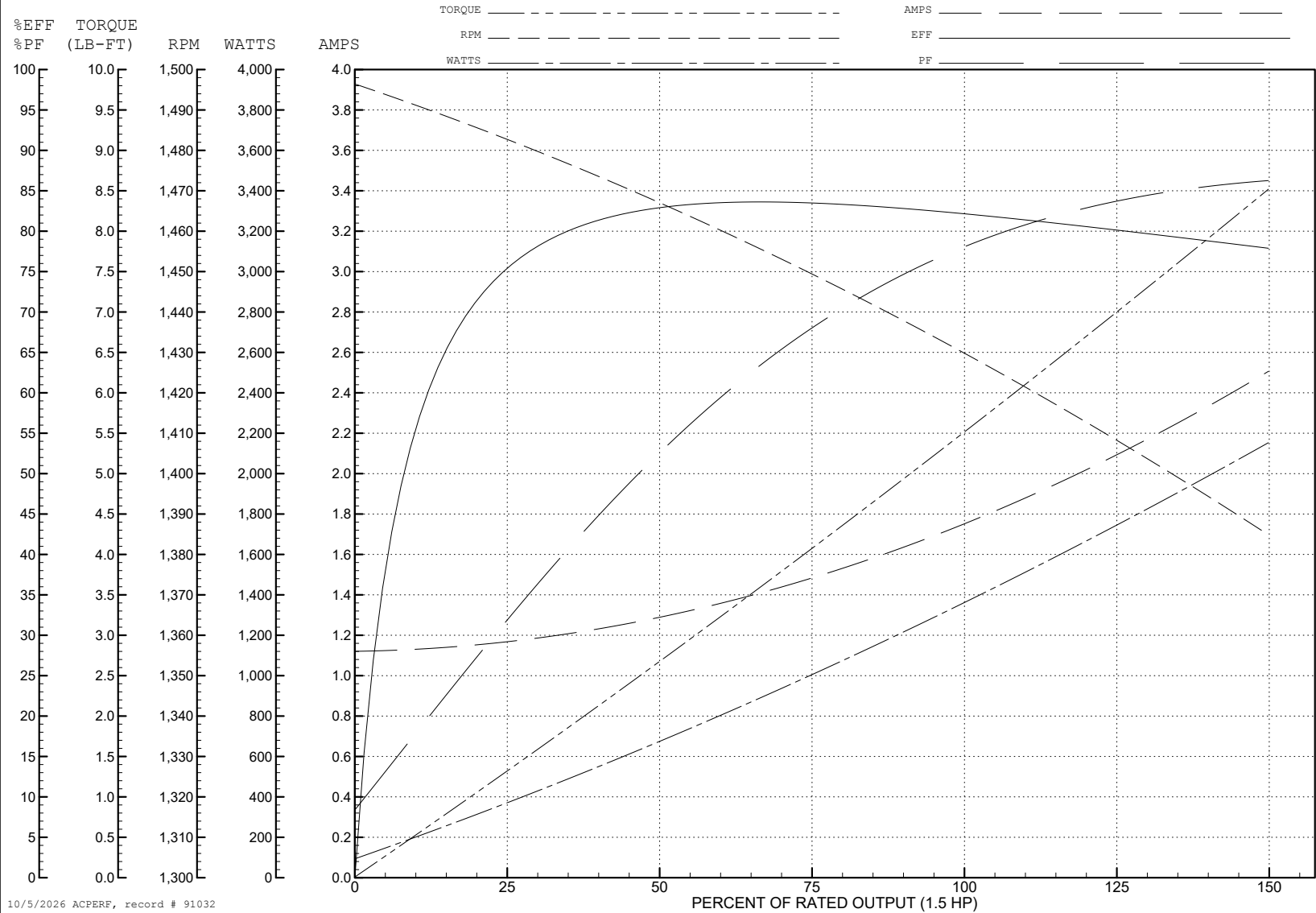
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WINDING # G0WG0361

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 1430 RPM 575 V G1028M

TORQUES (LB-FT): PO=20.85 PU=17.11 LR=20.75 LRA=14.24



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	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	Line-line Res. @ 25°C	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-ft ²

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

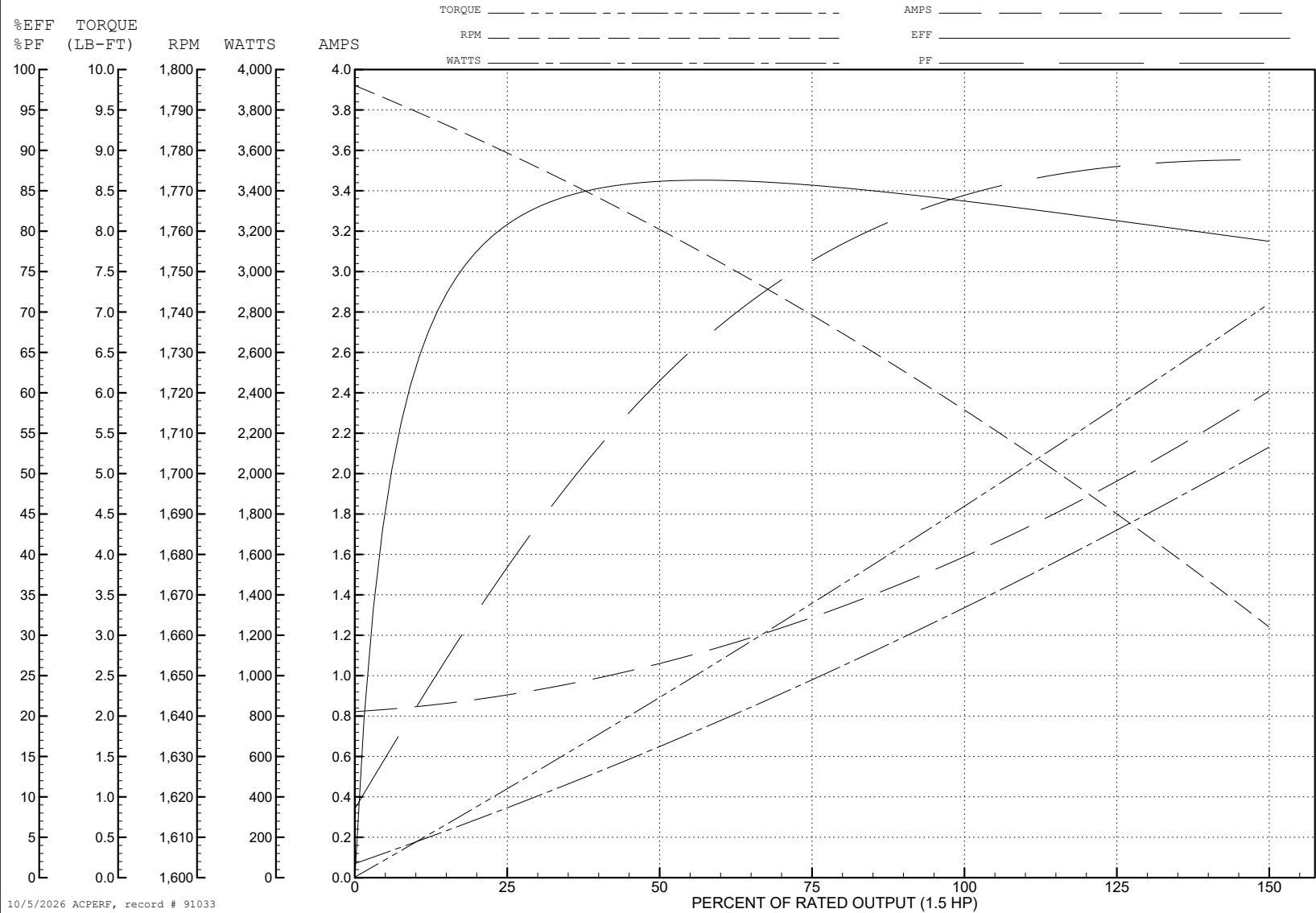
ABB Motors and Mechanical Inc.

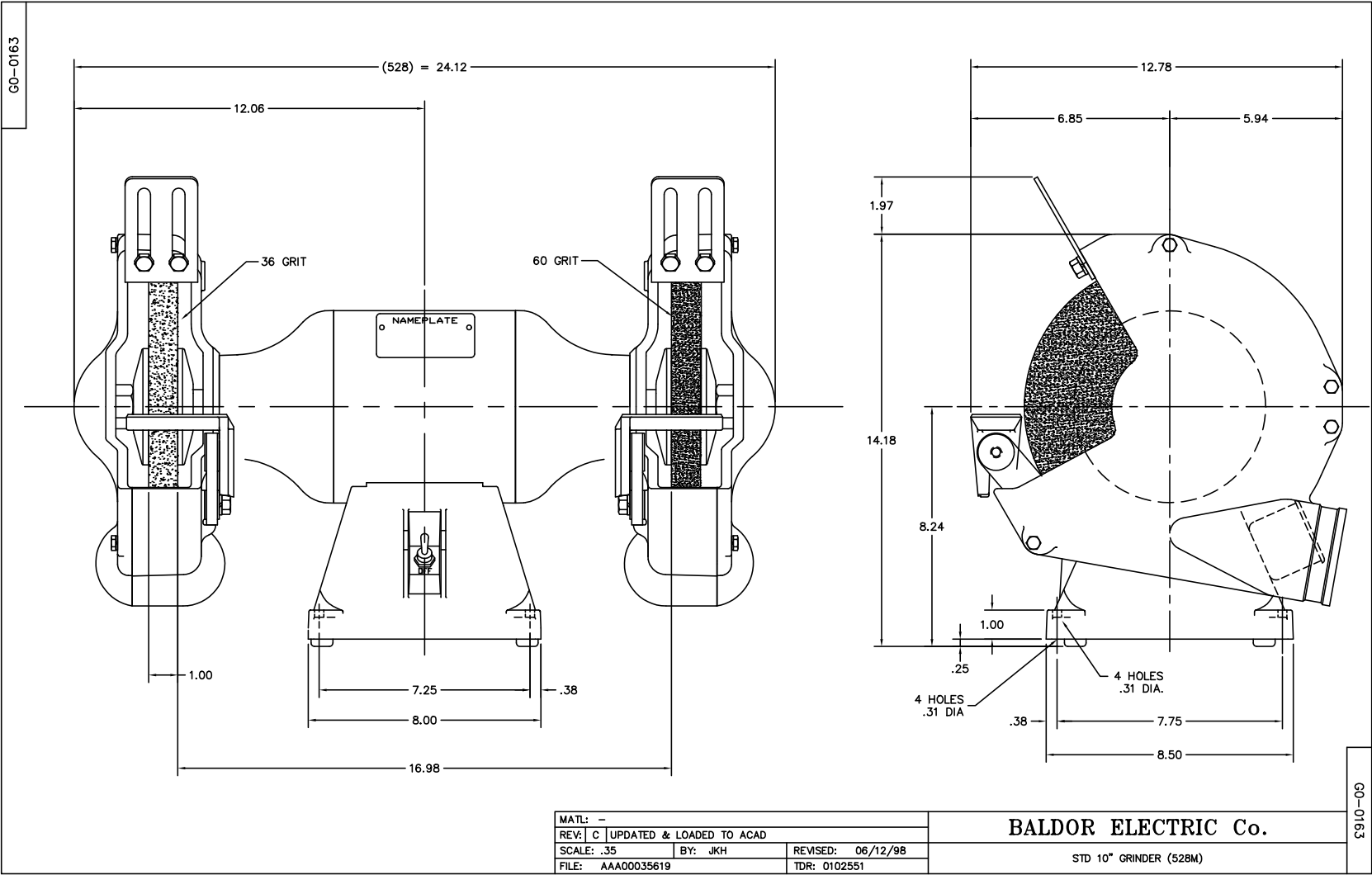
WINDING # G0WG0361

Typical performance - not guaranteed values.

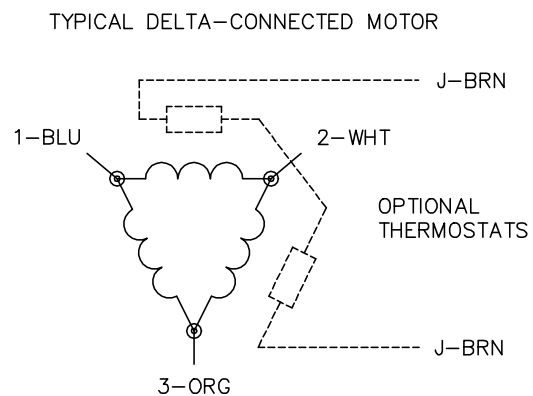
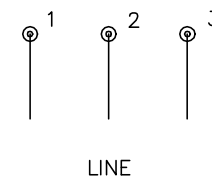
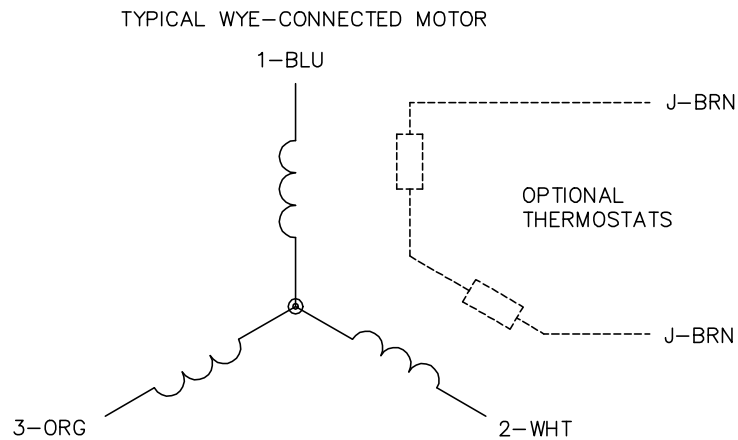
1.5 HP 3 PH 60 HZ 1716 RPM 575 V G1028M

TORQUES (LB-FT): PO=15.92 PU=12.19 LR=14.78 LRA=12.99





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

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