

BALDOR • RELIANCE

Customer information packet

CDM3543

.75HP, 1180RPM, 3PH, 60HZ, 56C, 3524M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CCSA US
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.550 A @ 460.0 V 2.900 A @ 208.0 V 3.100 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	A
Type	AC
Mech. spec.	35E4315
Base	
Status	PRD/A
Elec. spec.	35WGG031
Layout	35LYE4315
Eff. date	11-08-2023
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.23 IN
Power Factor	55
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3505									
CAT NO	CDM3543								
SPEC.	35E4315G031G1	ENCL	TEFC						
FRAME	56C	HP	.75						
VOLTS	230/460								
FLA	3.1/1.55	I.P.	56						
RPM	1180	RPM MAX	1800						
HZ	60	PH	3	CLASS	F				
SER.F.	1.15	DES	B	CC					
NEMA-NOM-EFF	81.7								
RATING	40C AMB-CONT								
DE BRG	6205	ODE BRG	6203						
GREASE	POLYREX EM								
INV.TYPE		C HP FR	60	C HP TO	90				
CT HZ FROM	6	CT HZ TO	60	VT HZ FROM	6	VT HZ TO	60		
SER.NO	SFA 2.9/1.45								

AC Induction Motor Performance Data

Record # 82358

Typical performance - not guaranteed values

Winding: 35WGG031-R004		Type: 3524M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	.75	Full Load Torque	3.35 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	3.1/1.55	Breakdown Torque	12.9 LB-FT		
R.P.M.	1180	Pull-up Torque	7.2 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	7.7 LB-FT	
NEMA Design Code	B KVA Code	M	Starting Current	9.7 A	
Service Factor (S.F.)		1.15	No-load Current	1.22 A	
NEMA Nom. Eff.	81.7 Power Factor	55	Line-line Res. @ 25°C	20.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load	42°C	
S.F. Amps		3.3/1.65	Temp. Rise @ S.F. Load	47°C	
			Locked-rotor Power Factor	50.5	
			Rotor inertia	0.174 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	22	35	47	55	62	67	1
Efficiency	65	76	80	82	82	81	82.4
Speed	1194	1189	1184	1179	1172	1166	1170
Line amperes	1.23	1.31	1.42	1.56	1.74	1.95	1.47

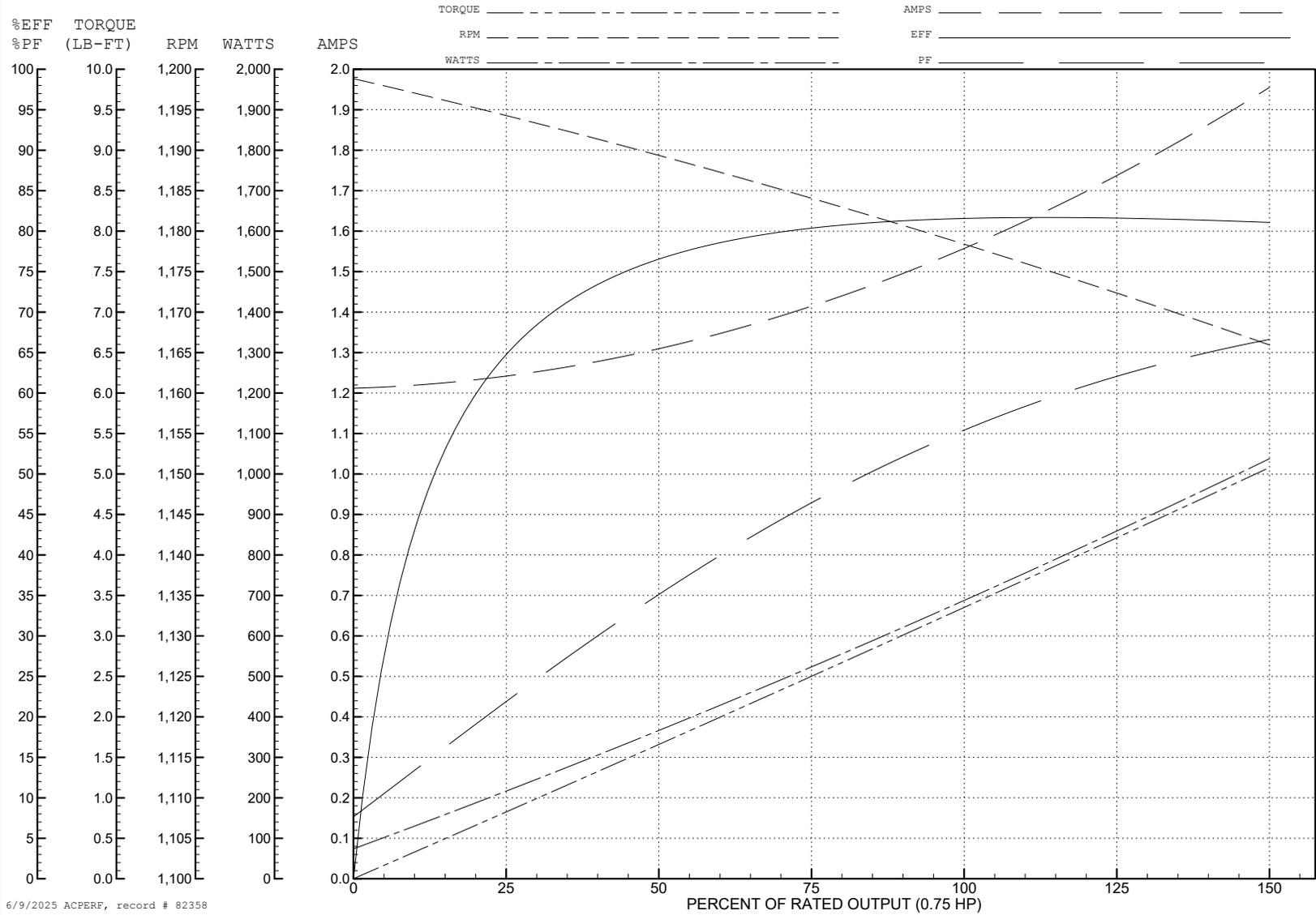
ABB Motors and Mechanical Inc.

WINDING # 35WGG031

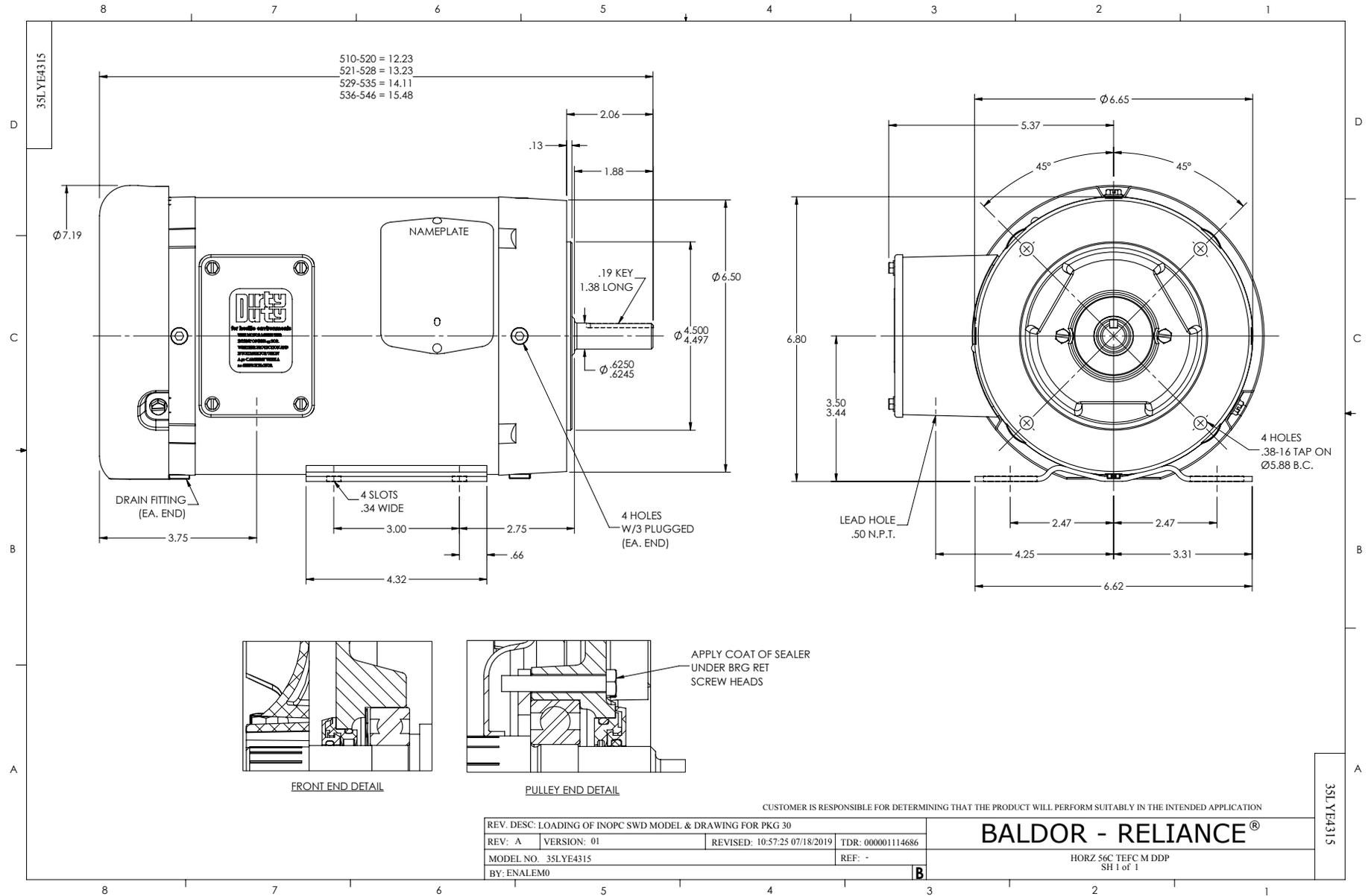
Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1180 RPM 460 V 3524M

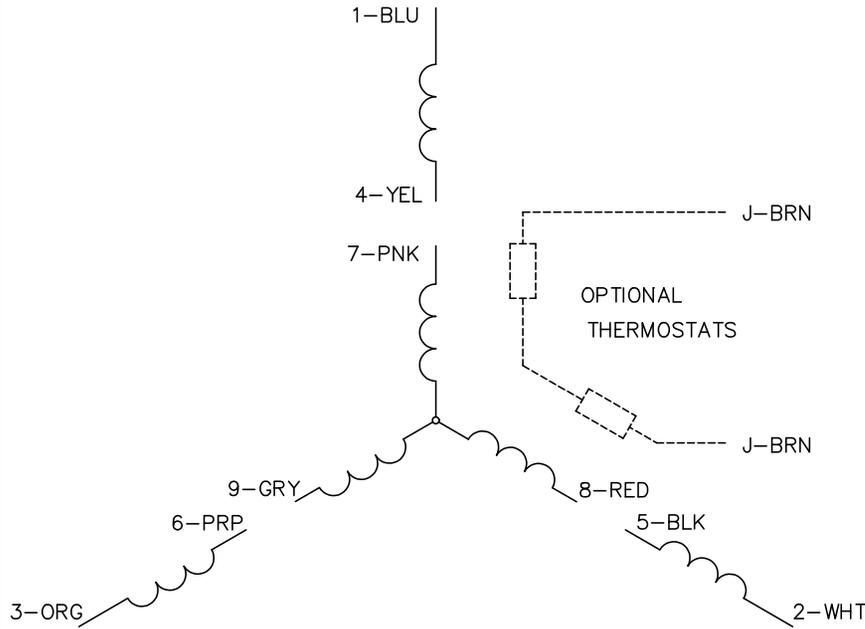
TORQUES (LB-FT): PO=12.9 PU=7.2 LR=7.7 LRA=9.7



6/9/2025 ACPERF, record # 82358



CD0005

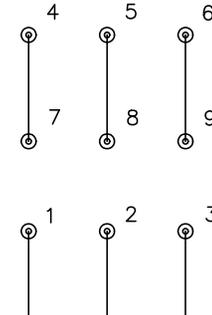


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

CD0005

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