

BALDOR® • RELIANCE 

Product Information Packet

CNM3539

.5HP, 1150RPM, 3PH, 60HZ, 56C, 3524M, TENV, F1

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGQ207	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35E012	Layout:	35LYE012	Poles:	06	Created Date:	11-29-2007
Base:	RG	Eff. Date:	03-28-2018	Leads:	9#18		

Specs			
Catalog Number:	CNM3539	Insulation Class:	F
Enclosure:	TENV	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3524M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	54
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	1.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	2.000 A @ 208.0 V	Shaft Rotation:	Reversible
	2.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	NONE (OLD)
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1256L										
CAT.NO.	CNM3539									
SPEC.	35E012Q207G2									
HP	.5									
VOLTS	230/460									
AMP	2/1									
RPM	1150									
FRAME	56C				HZ	60			PH	3
SER.F.	1.15		CODE	K	DES	B		CLASS	F	
NEMA-NOM-EFF	78.5		PF	54						
RATING	40C AMB-CONT									
CC								USABLE AT 208V	2	
DE	6205				ODE	6203				
ENCL	TENV		SN							

Parts List		
Part Number	Description	Quantity
SA165955	SA 35E012Q207G2	1.000 EA
RA154342	RA 35E012Q207G2	1.000 EA
S/P111-000-002	CORONA TEST, SUPER E MOTORS - FT. SMITH	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122F00	MASTER ODE,203 BRG,#26 DRN	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 36585 - Typical performance - not guaranteed values

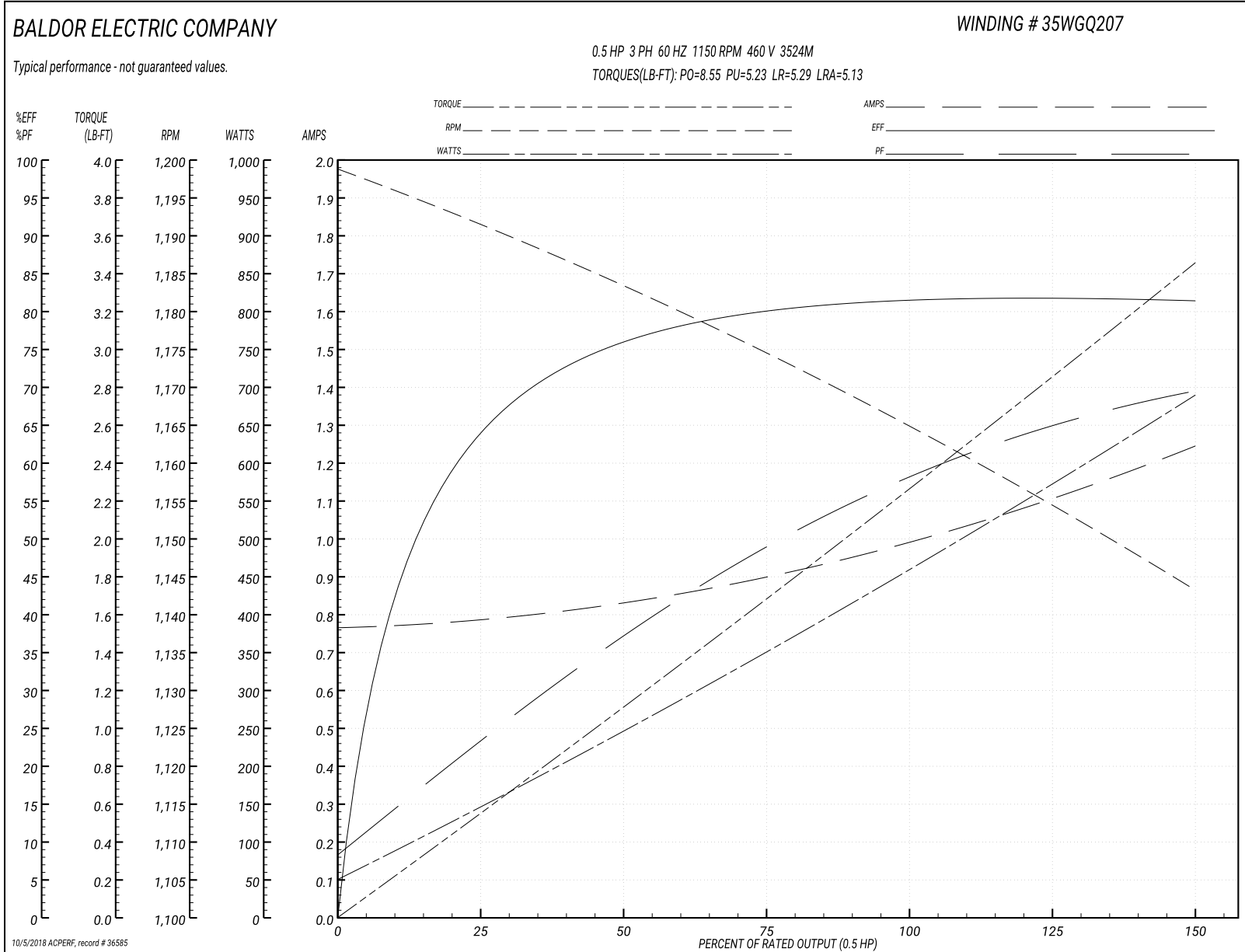
Winding: 35WGQ207-R012	Type: 3524M	Enclosure: TENV
-------------------------------	--------------------	------------------------

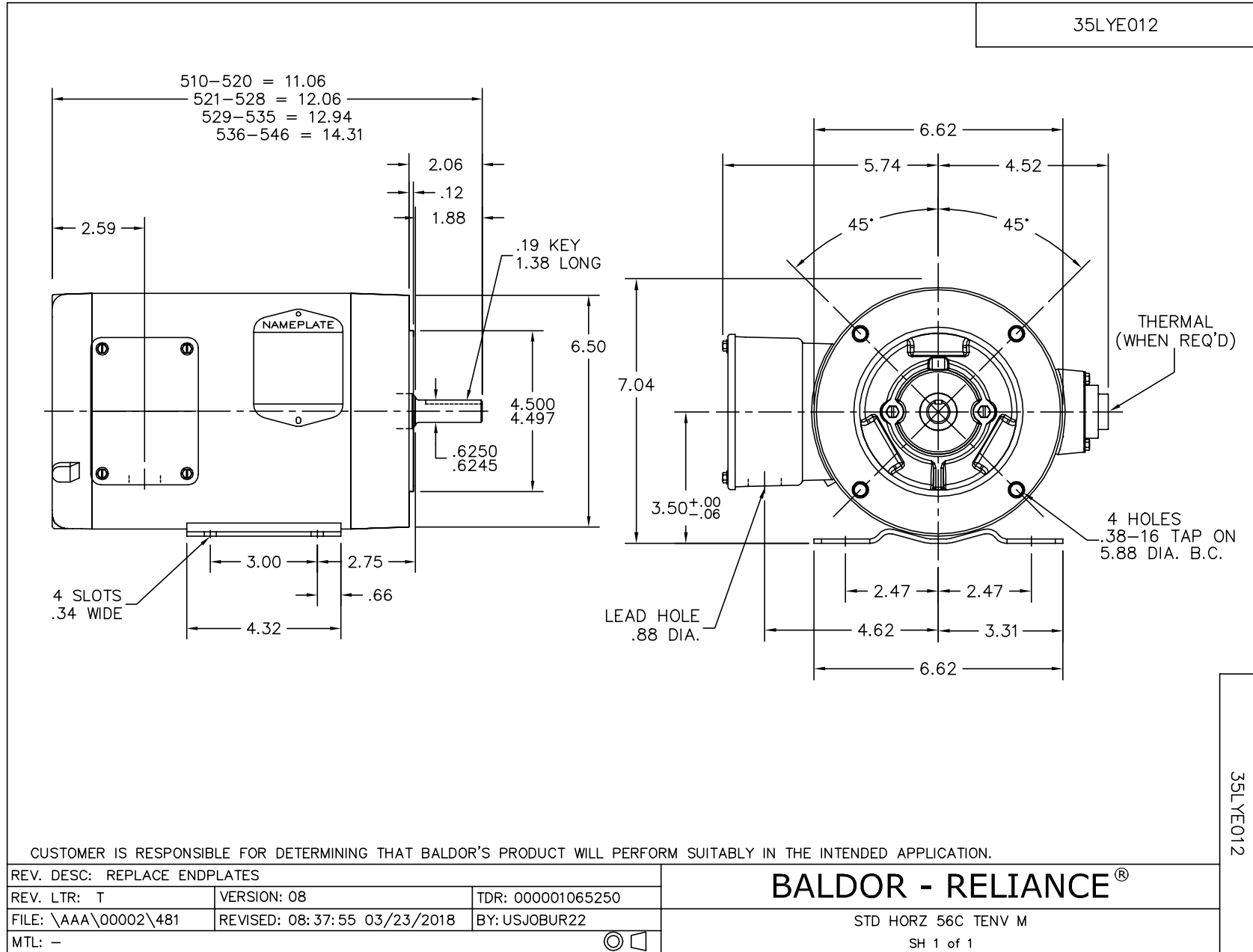
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	2.31 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	2/1			Breakdown Torque	8.55 LB-FT
R.P.M.	1150			Pull-up Torque	5.23 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.29 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	5.13 A
Service Factor (S.F.)	1.15			No-load Current	0.769 A
NEMA Nom. Eff.	78.5	Power Factor	54	Line-line Res. @ 25°C	24.6 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	
				Locked-rotor Power Factor	44
				Rotor inertia	0.142 LB-FT ²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	38	50	59	65	70	63
Efficiency	64	75.8	80.5	81.9	81.8	81.3	81.8
Speed	1191	1183	1173	1165	1154	1143	1158
Line amperes	0.784	0.833	0.905	1	1.12	1.24	1.07

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

90000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005