

BALDOR® • RELIANCE 

Product Information Packet

EM3158T-8

3HP,3450RPM,3PH,60HZ,145T,3530M,OPSB,F1

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGN342	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	35T680	Layout:	35LYT680	Poles:	02	Created Date:	07-31-2015
Base:	RG	Eff. Date:	06-15-2018	Leads:	3#16		

Specs			
Catalog Number:	EM3158T-8	Inverter Code:	Inverter Ready
Enclosure:	OPSB	KVA Code:	K
Frame:	145T	Lifting Lugs:	No Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	3.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 16 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3530M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	87
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	8.500 A @ 200.0 V	Shaft Ground Indicator:	No Shaft Grounding

Design Code:	B	Shaft Rotation:	Reversible
Drip Cover:	No Drip Cover	Shaft Slinger Indicator:	No Slinger
Duty Rating:	CONT	Speed Code:	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	Motor Standards:	NEMA
Feedback Device:	NO FEEDBACK	Starting Method:	Direct on line
Front Face Code:	Standard	Thermal Device - Bearing:	None
Front Shaft Indicator:	None	Thermal Device - Winding:	None
Heater Indicator:	No Heater	Vibration Sensor Indicator:	No Vibration Sensor
Insulation Class:	B	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3553L										
CAT.NO.	EM3158T-8									
SPEC	35T680N342G3									
HP	3									
VOLTS	200									
AMPS	8.5									
RPM	3450									
FRAME	145T				HZ	60			PH	3
SF	1.15		CODE	K	DES	B		CLASS	B	
NEMA NOM. EFF	85.5		PF	87						
RATING	40C AMB-CONT									
CC	010A			USABLE AT 208V						
ENCL	OPSB		SER							
DE	6205			ODE	6203					
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										

Parts List		
Part Number	Description	Quantity
SA305032	SA 35T680N342G3	1.000 EA
RA292224	RA 35T680N342G3	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	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
35EP3209A00	MASTER ODE,203 BRG,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3210A00	MASTER DE,205 BRG,1.000SH,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	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
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A23	THRUBOLT 10-32 X 10.375	4.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL CSA-	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0006	CONNECTION LABEL	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 52201 - Typical performance - not guaranteed values

Winding: 35WGN342-R003	Type: 3530M	Enclosure: OPSB
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Nameplate Data				200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	3			Full Load Torque	4.5 LB-FT
Volts	200			Start Configuration	direct on line
Full Load Amps	8.5			Breakdown Torque	17.8 LB-FT
R.P.M.	3450			Pull-up Torque	11.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	14.8 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	72.1 A
Service Factor (S.F.)	1.15			No-load Current	3.33 A
NEMA Nom. Eff.	85.5	Power Factor	87	Line-line Res. @ 25°C	1.03 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	32°C
S.F. Amps				Temp. Rise @ S.F. Load	38°C
				Locked-rotor Power Factor	55.2
				Rotor inertia	0.0822 LB-FT ²

Load Characteristics 200 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	84	88	91	92	90
Efficiency	77	84.5	85.9	86	85	83.3	85.4
Speed	3568	3539	3506	3473	3435	3391	3450
Line amperes	3.86	5.09	6.69	8.45	10.4	12.6	9.62

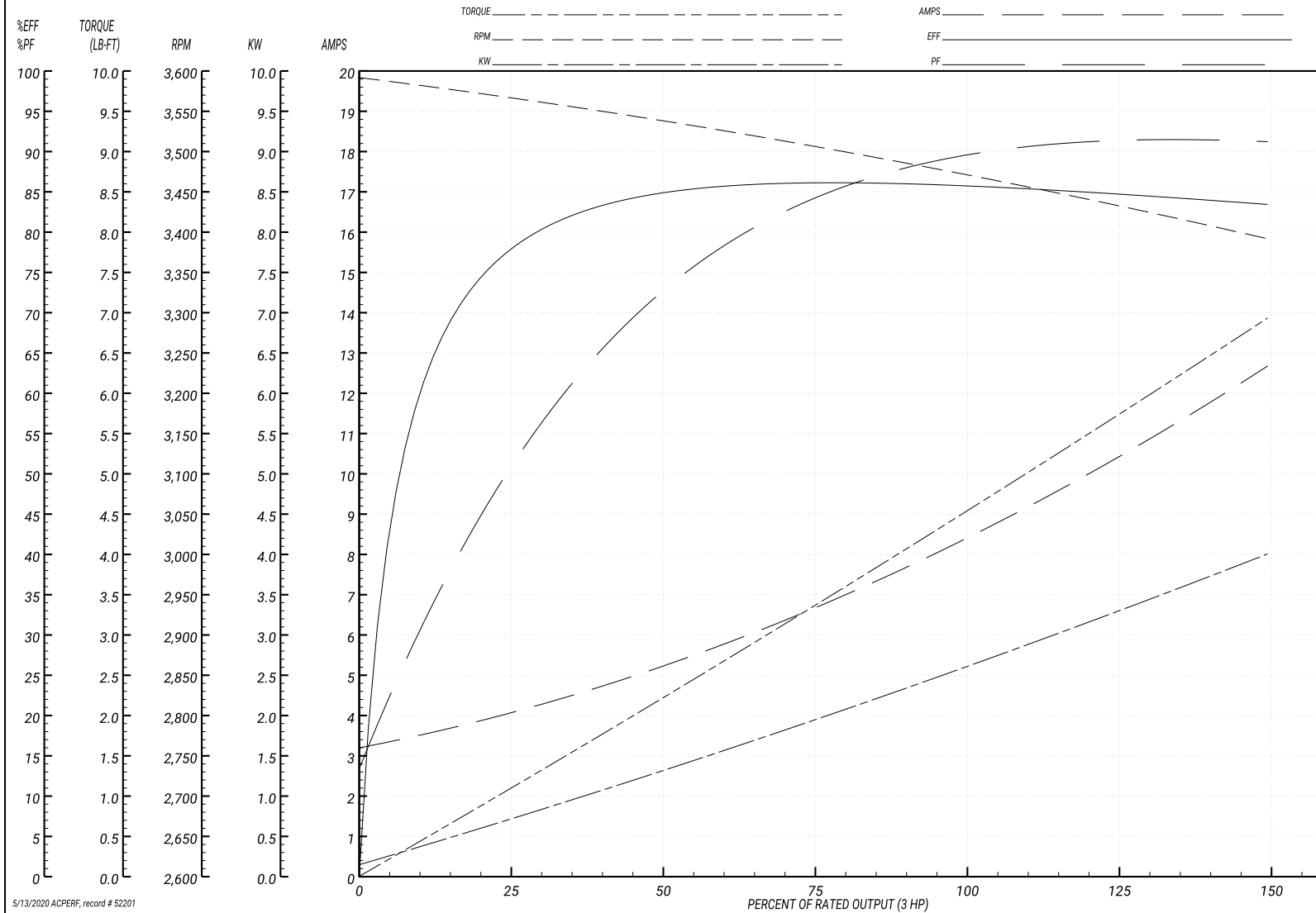
Performance Graph at 200V, 60Hz, 3.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

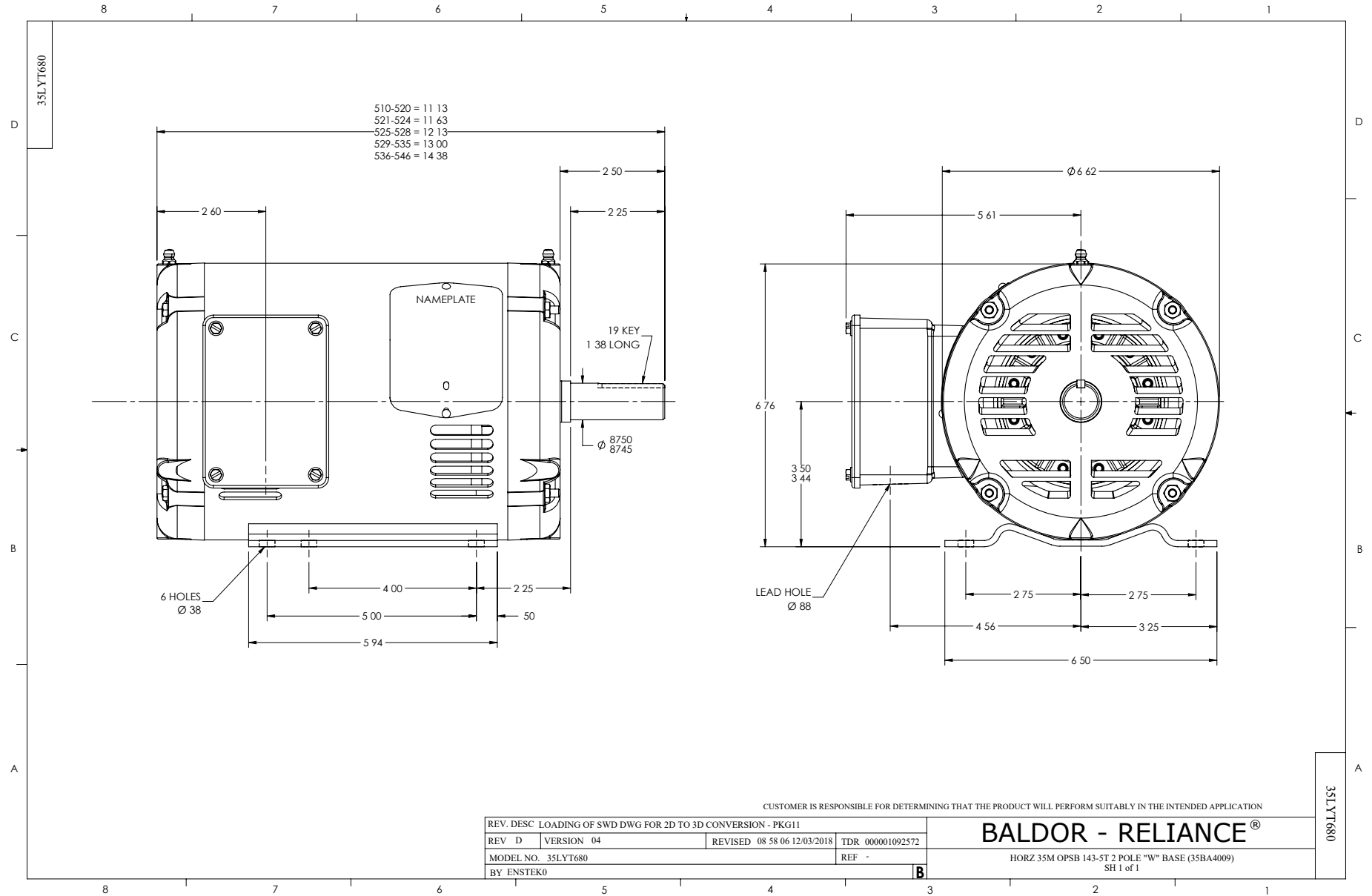
WINDING # 35WGN342

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 200 V 3530M
 TORQUES(LB-FT): PO=17.8 PU=11.1 LR=14.8 LRA=72.1



5/13/2020 ACPERF, record # 52201



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: -	© □	

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

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