

ABB BALDOR RELIANCE III

Customer information packet

EM3158T-8

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

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	145T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.500 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.5 a
Insulation Class	B
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	35T680
Base	
Status	PRD/A
Elec. spec.	35WGN342
Layout	35LYT680
Eff. date	09-11-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	07-31-2015

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.00 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

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								
ENCL	OPSB	SER							
DE	6205		ODE	6203					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									

AC Induction Motor Performance Data

Record # 52201

Typical performance - not guaranteed values

Winding: 35WGN342-R003			Type: 3530M		Enclosure: OPSB		
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-FT2

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

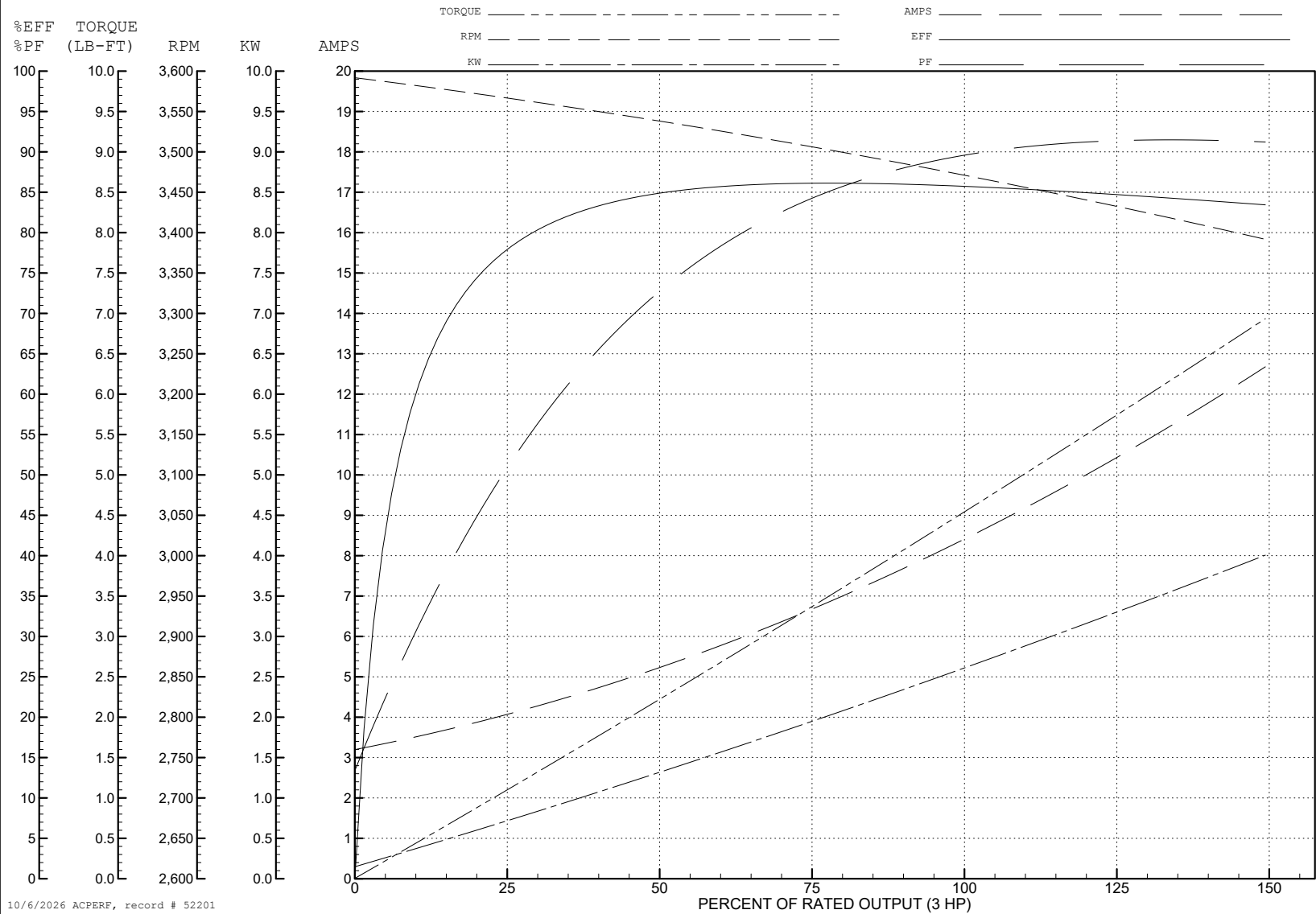
ABB Motors and Mechanical Inc.

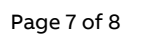
WINDING # 35WGN342

Typical performance - not guaranteed values.

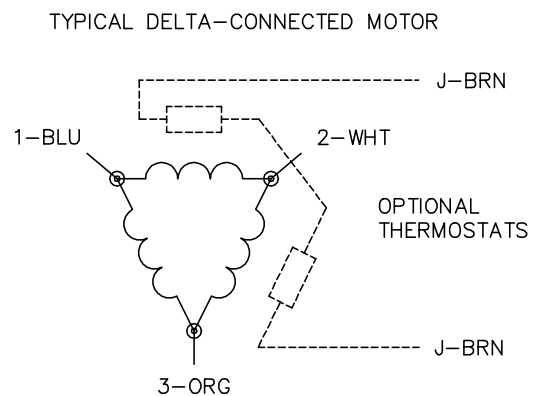
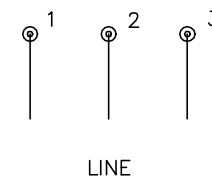
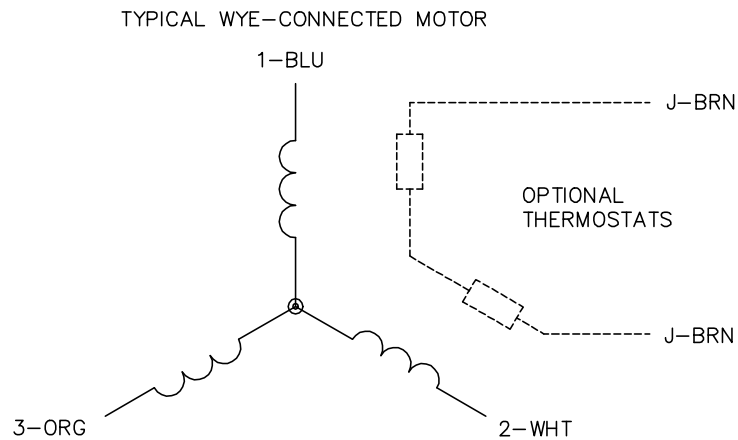
3 HP 3 PH 60 HZ 3450 RPM 200 V 3530M

TORQUES (LB-FT): PO=17.8 PU=11.1 LR=14.8 LRA=72.1





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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