

ABB BALDOR RELIANCE III

Customer information packet

VEJMM3154T-5

1.5HP, 1770RPM, 3PH, 60HZ, 145JM, 3524M, ODTF

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
Frame	145JM
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.700 A @ 575.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M

Part Detail

Revision	B
Type	AC
Mech. spec.	35E422
Base	
Status	PRD/A
Elec. spec.	35WGG122
Layout	35LYE422
Eff. date	02-25-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	12-20-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.41 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP1259L											
CAT.NO.	VEJMM3154T-5										
SPEC.	35E422G122										
HP	1.5										
VOLTS	575										
AMP	1.7										
RPM	1770										
FRAME	145JM		HZ	60				PH	3		
SER.F.	1.15	CODE	M	DES	B	CL	F				
NEMA-NOM-EFF	86.5	PF	74								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6203							
ENCL	ODTF	SN									
	INVERTER DUTY 20:1 VT										

AC Induction Motor Performance Data

Record # 87553

Typical performance - not guaranteed values

Winding: 35WGG122-R001			Type: 3524M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.46 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1.7	Breakdown Torque		17.4 LB-FT	
R.P.M.		1770	Pull-up Torque		9.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		11.3 LB-FT
NEMA Design Code		B	KVA Code	L	Starting Current	
Service Factor (S.F.)		1.15	No-load Current		1 A	
NEMA Nom. Eff.		86.5	Power Factor	77	Line-line Res. @ 25°C	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		1.9	Temp. Rise @ S.F. Load		49°C	
			Locked-rotor Power Factor		58.3	
			Rotor inertia		0.173 lb-ft²	

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	56	69	77	82	85	81
Efficiency	76.7	84.6	86.5	86.7	85.9	84.7	86.1
Speed	1792	1786	1779	1770	1762	1753	1762
Line amperes	1.06	1.2	1.42	1.7	2.01	2.36	1.85

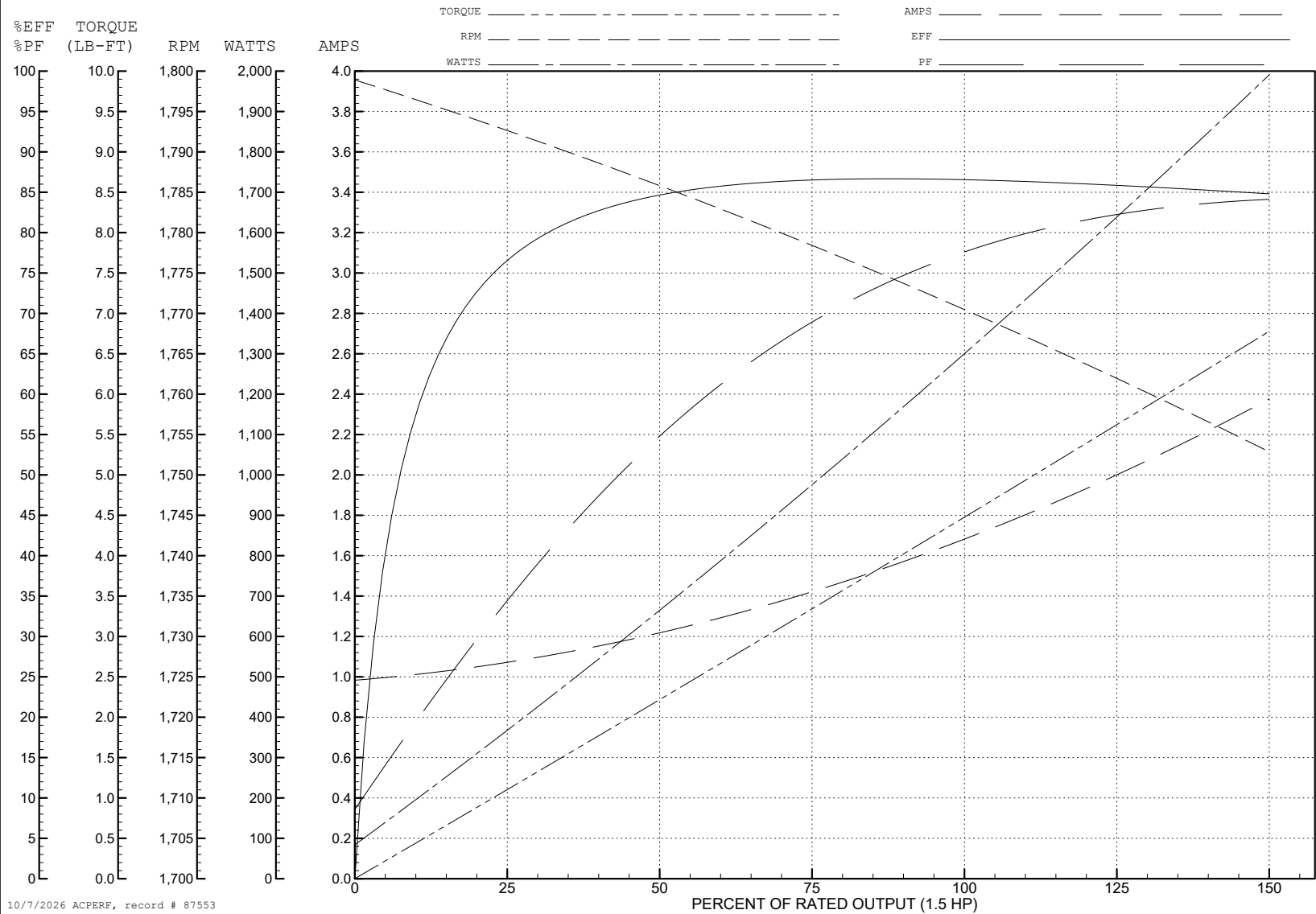
ABB Motors and Mechanical Inc.

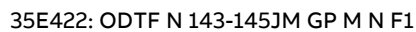
WINDING # 35WGG122

Typical performance - not guaranteed values.

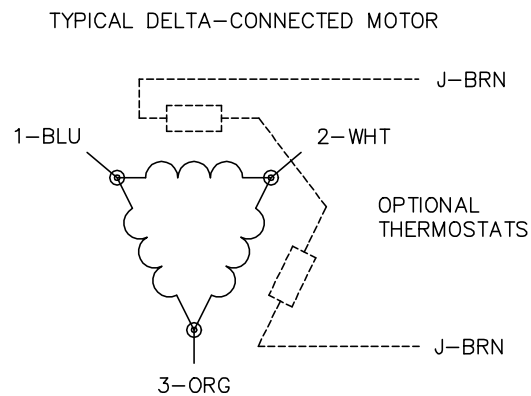
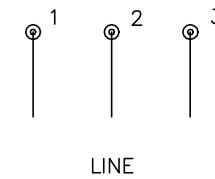
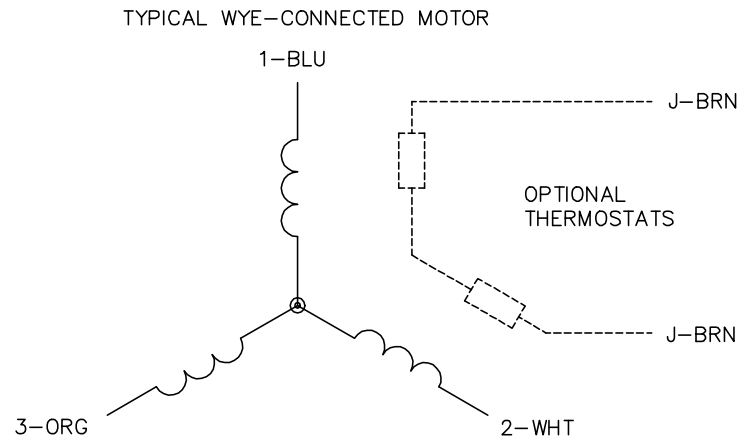
1.5 HP 3 PH 60 HZ 1770 RPM 575 V 3524M

TORQUES (LB-FT): PO=17.4 PU=9.2 LR=11.3 LRA=14.8





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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