

ABB BALDOR RELIANCE III

Customer information packet

CDRX14144T-5

1HP, 1770RPM, 3PH, 60HZ, 143TC, 3522M, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL CSA EEV
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
Constant Torque Speed Range	6
Current @ Voltage	1.250 A @ 575.0 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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG119
Layout	35LYX732
Eff. date	10-31-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	10-28-2021

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.34 IN
Power Factor	71
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1401XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	35-0000-1354					INV.TYPE		PWM			
CAT.NO.	CDRX14144T-5					C HP FR	60	C HP TO	90		
HP	1					CT HZ FROM	6	CT HZ TO		60	
VOLTS	575					VT HZ FROM	6	VT HZ TO		60	
AMPS	1.3			MAG CUR		.87					
RPM	1775			MX RPM		2700					
HZ	60	PH	3	CL	F	NOM.EFF.		85.5			
SER.F.	1.00	DES	B	SL HZ	1	WK2	0.159				
FRAME	143TC	RATING		40C AMB-CONT							
	55C AMB @ 1.0 SF										
	1.15 SF SINE WAVE					NEMA MG-1 PT 5, IP55					

Parts List

Part number	Description	Quantity
SA400354	SA 35-0000-1354	1.000 ea
RA391509	RA 35-0000-1354	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1401XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1359F	ALUM XP CAUTION LABEL	1.000 ea
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3104A08	THRUBOLT 5/16-18 X 9.375 X	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35EP3700B07	FR ENDPLATE, XPFC - GROUP C, W/ DRAIN	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
HA2009A89	SPACER FOR XP MTRS - 205 BRG.	1.000 ea
35EP1704A40	PUEP 205 BRG XP,GP C,ALUM SLINGER,DRAIN	1.000 ea
HA2071A02	ALUM SLINGER 205 BRG DRILL RIG MOTOR	1.000 ea
80XN1032J04	10-32 X 1/4 SET SCREW, HEX SOC, CUP PT	1.000 ea
84XN1032J20	SCREW, SOC 10-32 X 1 1/4"BMH4602	2.000 ea
HW4001A01	1/4 HX SOC PIPE PLG (F/S) ALLOY STEEL W/	2.000 ea
63XN1032A07	10-32 X 7/16 TRUSS HEAD,TORX SERRATED ZN	2.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
35CB1005A01	CONDUIT BOX,MACH - GROUP "C" MTRS	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea

HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35CB1501A01	CONDUIT BOX LID, MACH. - GROUP "C" MTRS	1.000 ea
RM1020A41	O-RING, -150 BUNA-N, .103 CS X 2.862 ID	1.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.022 ga
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 ga
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea

AC Induction Motor Performance Data

Record # 87429

Typical performance - not guaranteed values

Winding: 35WGG119-R003			Type: 3522M	Enclosure: XPFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		1	Full Load Torque		2.99 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		1.3	Breakdown Torque		13.4 LB-FT
R.P.M.		1775	Pull-up Torque		6.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.3 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	10.9 A
Service Factor (S.F.)			1	No-load Current	0.87 A
NEMA Nom. Eff.	85.5	Power Factor	70	Line-line Res. @ 25°C	30.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load	36°C
S.F. Amps				Temp. Rise @ S.F. Load	43°C
				Locked-rotor Power Factor	63.4
				Rotor inertia	0.159 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	31	48	61	70	76	80
Efficiency	72.1	81.6	84.9	85.8	85.7	85
Speed	1794	1787	1781	1774	1767	1758
Line amperes	0.89	0.97	1.1	1.26	1.44	1.65

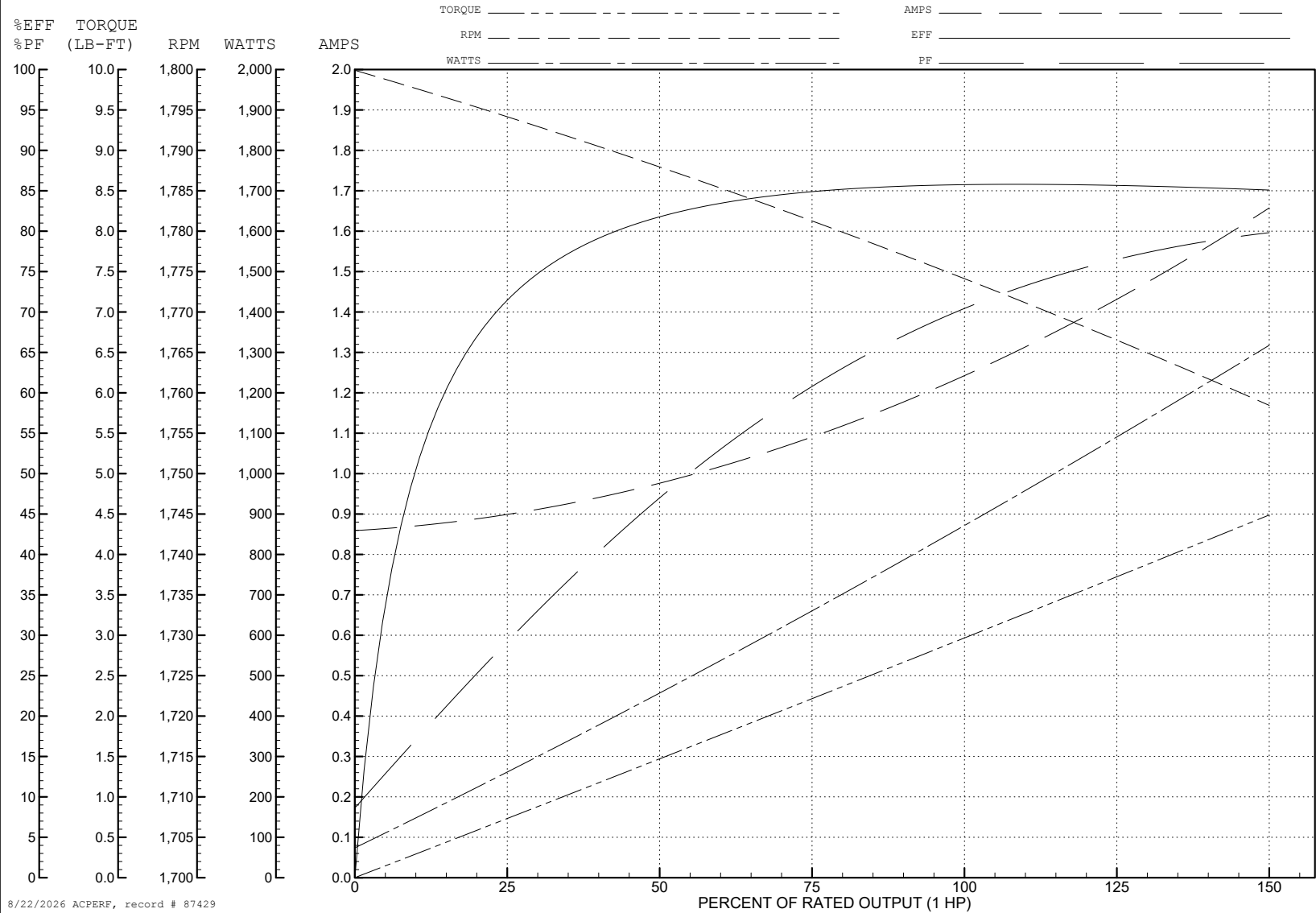
ABB Motors and Mechanical Inc.

WINDING # 35WGG119

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1775 RPM 575 V 3522M

TORQUES (LB-FT): PO=13.4 PU=6.8 LR=8.3 LRA=10.9





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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