

ABB BALDOR RELIANCE III

Customer information packet

CHC164A

.25HP, 1100RPM, 1PH, 60HZ, 48Z, 3411C, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	48Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.500 A @ 230.0 V 1.600 A @ 208.0 V 3.000 A @ 115.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	59.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a

Part Detail

Revision	K
Type	AC
Mech. spec.	34M212
Base	
Status	PRD/A
Elec. spec.	34WGR204
Layout	34LYM212
Eff. date	10-28-2024
CD Diagram	CD0804
Poles	06
Leads	7#18
Proprietary	False
Created date	10-17-2014

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	B
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3411C
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.35 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1100 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	Automatic Thermal Overload
Winding Thermal 1 Location	WG

Nameplate

NP1257L										
CAT.NO.	CHC164A									
SPEC.	34M212R204G1									
HP	.25									
VOLTS	115/230									
AMP	3/1.5									
RPM	1100									
FRAME	48Z			HZ		60		PH 1		
SER.F.	1.15	CODE	B	DES	-	CL	B			
NEMA-NOM-EFF	59.5	PF	92							
RATING	40C AMB-CONT									
CC										
DE	6203	ODE	6203							
ENCL	TEAO	SN								

Parts List

Part number	Description	Quantity
SA288429	SA 34M212R204G1	1.000 ea
RA274620	RA 34M212R204G1	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
LD5000A52	LEAD ASSY W/INTERNAL STAR RING TERMINALS	1.000 ea
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
34EP3204A01SP	FR ENDPLATE, MACH	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3205B01	PU ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
XY0832A02	8-32 HEX NUT	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
34GS1005	GASKET, TERM PLATE LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW1000A08	#8 SAE FLAT WASHER	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
34BA4001A01SP	RESILIENT BASE, 408-416	1.000 ea
SP5076SP	MODEL 34 TERMINAL PANEL WITH QUICK CONNE	1.000 ea
33CB4800A01	CAPACITOR COVER, STAMPED	1.000 ea
35GS3001A01	GASKET, CAPACITOR COVER	1.000 ea
HA3169A17	THRUBOLT #8-32 THDS X 8.375" LONG	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0052	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data

Record # 47429

Typical performance - not guaranteed values

Winding: 34WGR204-R001			Type: 3411C		Enclosure: TEAO			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.25	Full Load Torque		1.19 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		3/1.5	Breakdown Torque		1.74 LB-FT			
R.P.M.		1100	Pull-up Torque		0.378 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		0.414 LB-FT		
NEMA Design Code		-	KVA Code	B	Starting Current		3.56 A	
Service Factor (S.F.)		1.15	No-load Current		0.755 A			
NEMA Nom. Eff.		59.5	Power Factor		92	Line-line Res. @ 25°C		24.299 Ω A Ph 11.702 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	S.F.
Power Factor	79	86	90	92	92	92
Efficiency	33.8	51.2	60.4	63.1	59.8	61.1
Speed	1182	1166.4	1146.4	1119.2	1073.7	1092
Line amperes	0.819	0.962	1.17	1.42	1.79	1.64

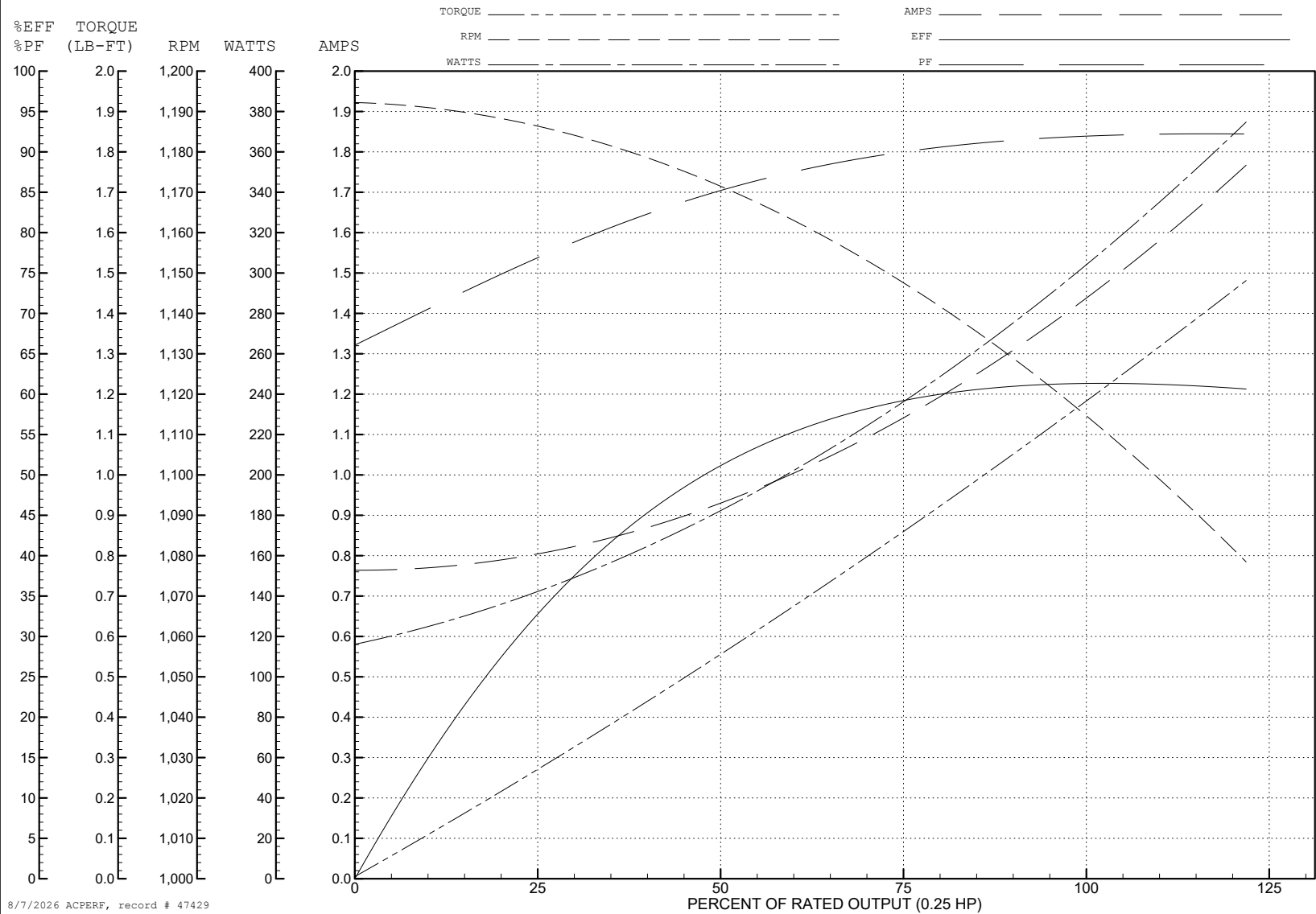
ABB Motors and Mechanical Inc.

WINDING # 34WGR204

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1100 RPM 230 V 3411C

TORQUES (LB-FT): PO=1.74 PU=0.378 LR=0.414 LRA=3.56





CD0804

