

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								

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





