

ABB BALDOR RELIANCE III

Customer information packet

M3160

.5HP, 865RPM, 3PH, 60HZ, 56, 3522M, OPEN, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	C UR US
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	1.200 A @ 460.0 V 2.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	G
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGG341
Layout	35LYB011
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	08
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	12.07 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	865 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

NP1256L											
CAT.NO.	M3160										
SPEC.	35B011G341G1										
HP	.5										
VOLTS	230/460										
AMP	2.4/1.2										
RPM	865										
FRAME	56			HZ	60				PH	3	
SER.F.	1.15		CODE	K	DES	B		CLASS		F	
NEMA-NOM-EFF	70		PF	57							
RATING	40C AMB-CONT										
CC											
DE	6205			ODE	6203						
ENCL	OPEN		SN								
	SFA 2.52/1.26										

Parts List

Part number	Description	Quantity
SA414897	SA 35B011G341G1	1.000 ea
RA406666	RA 35B011G341G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
51XB1016A06	10-16X3/8 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3209G00	MASTER ODE,203 BRG	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3210B00	MASTER DE,205 BRG,1.000SH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 87787

Preliminary Data Sheet

Winding: 35WGG341-R002			Type: 3522M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		3.08 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.4/1.2	Breakdown Torque		10.33 LB-FT		
R.P.M.		865	Pull-up Torque		6.41 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		7.03 LB-FT		
NEMA Design Code		B	KVA Code		K	Starting Current	5.49 A
Service Factor (S.F.)		1.15	No-load Current		0.979 A		
NEMA Nom. Eff.		70	Power Factor		57	Line-line Res. @ 25°C	39.9 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		52°C		
S.F. Amps			Temp. Rise @ S.F. Load		58°C		
			Locked-rotor Power Factor		65		
			Rotor inertia		0.159 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	37	47	56	64	69	61
Efficiency	49.7	63	68.5	70.9	70.7	69.7	70.8
Speed	893	884	876	866	853	839	858
Line amperes	0.986	1.02	1.1	1.19	1.3	1.46	1.26

ABB Motors and Mechanical Inc.

WINDING # 35WGG341

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 865 RPM 460 V 3522M

TORQUES (LB-FT) : PO=10.33 PU=6.41 LR=7.03 LRA=5.49





