

ABB BALDOR RELIANCE III

Customer information packet

EM31158

3HP, 3450RPM, 3PH, 60HZ, 56H, 3528M, ODP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56H
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	3.800 A @ 460.0 V 7.600 A @ 230.0 V 8.000 A @ 208.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.8 a

Part Detail

Revision	P
Type	AC
Mech. spec.	35J382
Base	
Status	PRD/A
Elec. spec.	35WGL051
Layout	35LYJ382
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-25-2014

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.75 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP3155LUA												
CAT.NO.	EM31158											
SPEC.	35J382L051G1											
HP	3											
VOLTS	230/460											
AMPS	7.6/3.8											
RPM	3450											
FRAME	56H		HZ	60				PH	3			
SF	1.15		CODE	K	DES	B		CLASS	F			
F.L. AVG. EFF.	85.5		PF	89								
RATING	40C AMB-CONT											
CC												
DE	6205		ODE	6203								
ENCL	OPEN		SN									
USABLE AT	50HZ 3HP 190/380V 9/4.5A									SF1.0		

AC Induction Motor Performance Data

Record # 48297

Typical performance - not guaranteed values

Winding: 35WGL051-R004		Type: 3528M	Enclosure: ODP
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3	Full Load Torque	4.65 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	7.6/3.8	Breakdown Torque	18.7 LB-FT
R.P.M.	3450	Pull-up Torque	12.2 LB-FT
Hz	60 Phase	Locked-rotor Torque	17.3 LB-FT
NEMA Design Code	B KVA Code	Starting Current	32 A
Service Factor (S.F.)	1.15	No-load Current	1.36 A
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	4.7021 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	85	89	92	93	91
Efficiency	82.1	87	87.4	86.2	84.6	82.2	85.2
Speed	3566.3	3535	3499.4	3457.2	3415.1	3364.7	3432
Line amperes	1.63	2.16	2.88	3.74	4.57	5.58	4.24

ABB Motors and Mechanical Inc.

WINDING # 35WGL051

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3528M

TORQUES (LB-FT): PO=18.7 PU=12.2 LR=17.3 LRA=32





