

ABB BALDOR RELIANCE III

Customer information packet

EMM3559

2.2KW, 3450RPM, 3PH, 60HZ, D90L, 3532M, TEFC, B

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D90L
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	2.200 KW @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA UR
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	3.600 A @ 460.0 V 7.200 A @ 230.0 V 7.900 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D

Part Detail

Revision	L
Type	AC
Mech. spec.	35Q920
Base	
Status	PRD/A
Elec. spec.	35WGQ060
Layout	35LYQ920
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-16-2013

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
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	IEC
Motor Type	3532M
Mounting Arrangement	B3
Number of Poles	2
Overall Length	13.87 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.945 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

NP3386L						
CAT.NO.	EMM3559					
SPEC.	35Q920Q060G1					
IEC FRAME	D90S,L	KW	2.2			
VOLTS	230/460					
AMP	7.2/3.6					
RPM	3450		ENCL		TEFC	
HZ	60	PH	3	CL	F	
SER.F.	1.15	DES	B	CODE	L	
NEMA-NOM-EFF	86.5	I.P.	44			
RATING	40C AMB-CONT					
CC	010A	USABLE AT 208V			N/A	
DE	6205	ODE	6203			
SER. #						

AC Induction Motor Performance Data

Record # 61529

Typical performance - not guaranteed values

Winding: 35WGQ060-R022			Type: 3532M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (KW)		2.2	Full Load Torque		4.61 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		7.2/3.6	Breakdown Torque		19.9 LB-FT	
R.P.M.		3450	Pull-up Torque		11.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		18.8 LB-FT
NEMA Design Code		B	KVA Code	L	Starting Current	
Service Factor (S.F.)		1.15	No-load Current		1.17 A	
NEMA Nom. Eff.		86.5	Power Factor		92	Line-line Res. @ 25°C
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	

Load Characteristics 460 V, 60 Hz, 2.2 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	88	92	93	94	93
Efficiency	83.7	87.9	88.2	87.2	85.6	83.5	86.2
Speed	3562.2	3530.9	3497.8	3462.5	3420.8	3375.4	3437
Line amperes	1.5	2.08	2.79	3.57	4.46	5.44	4.1

ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

Typical performance - not guaranteed values.

2.2 KW 3 PH 60 HZ 3450 RPM 460 V 3532M

TORQUES (LB-FT): PO=19.9 PU=11.9 LR=18.8 LRA=33.1





