

ABB BALDOR RELIANCE III

Customer information packet

JEWDM3559

3HP, 3450RPM, 3PH, 60HZ, 56J, 3540M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56J
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	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.500 A @ 460.0 V 7.000 A @ 230.0 V 7.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	N
Type	AC
Mech. spec.	35E2235
Base	
Status	PRD/A
Elec. spec.	35WGQ130
Layout	35LYE2235
Eff. date	10-01-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-01-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3540M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.97 IN
Power Factor	92
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
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	Shaft 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

NP1669L											
CAT.NO.	JEWDM3559										
SPEC.	35E2235Q130G1										
HP	3										
VOLTS	208-230/460										
AMP	7.7-7/3.5										
RPM	3450										
FRAME	56J		HZ	60				PH	3		
SER.F.	1.15	CODE	M	DES	B			CLASS	F		
NEMA-NOM-EFF	87.5	PF	92								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TEFC	SN									
BLANK	SFA 8.8-8/4										

AC Induction Motor Performance Data

Record # 8289

Typical performance - not guaranteed values

Winding: 35WGQ130-R001			Type: 3540M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque		4.59 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		7.7-7/3.5	Breakdown Torque		20.5 LB-FT	
R.P.M.		3450	Pull-up Torque		9.62 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		18.2 LB-FT
NEMA Design Code		B	KVA Code		M	
Service Factor (S.F.)		1.15	No-load Current		1.14 A	
NEMA Nom. Eff.		87.5	Power Factor		92	
Rating - Duty		40C	AMB-CONT			
S.F. Amps			Temp. Rise @ Rated Load		58°C	
			Temp. Rise @ S.F. Load		71°C	
			Locked-rotor Power Factor		44	
			Rotor inertia		0.111 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	81	88	92	94	93	93
Efficiency	82.6	87.7	88.3	87.6	86.3	84.4	86.8
Speed	3564	3536	3506	3474	3439	3399	3453
Line amperes	1.46	2.04	2.74	3.53	4.38	5.34	4.04

ABB Motors and Mechanical Inc.

WINDING # 35WGQ130

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3540M

TORQUES (LB-FT): PO=20.5 PU=9.62 LR=18.2 LRA=39.19



