

ABB BALDOR RELIANCE III

Customer information packet

CZDNM3556

1HP, 1170RPM, 3PH, 60HZ, 56C, 3532M, TENV, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA_PREMIUM 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	1.900 A @ 460.0 V 3.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a

Part Detail

Revision	B
Type	AC
Mech. spec.	35E6689
Base	
Status	PRD/A
Elec. spec.	35WGG187
Layout	35LYE6689
Eff. date	08-05-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	04-29-2025

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.72 IN
Power Factor	61
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3943L									
CAT.NO.	CZDNM3556								
SPEC.	35E6689G187Z1								
FRAME	56C			H.P.		1 TE			
VOLTS	230/460 ENCL TENV								
MAG. CUR.	2.7/1.35				F.L. AMPS			3.8/1.9	
R.P.M.	1170		R.P.M. MAX				1800		
HZ.	60		PH.		3		CLASS		H
SER.F.	1.00			SL HZ			1.5		
NEMA NOM. EFF.	82.5		WK2		0.232				
RATING	40C AMB-CONT								
DE	6205		ODE		6203				
CC	010A		SN						
	1000:1 CT 1.5:1 CHP								
	1.15 SF ON SINEWAVE								

AC Induction Motor Performance Data

Record # 108111

Typical performance - not guaranteed values

Winding: 35WGG187-R006			Type: 3532M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		4.5 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		3.8/1.9	Breakdown Torque		18.8 LB-FT	
R.P.M.		1170	Pull-up Torque		10.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	12 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current	12.4 A	
Service Factor (S.F.)		1.15	No-load Current		1.35 A	
NEMA Nom. Eff.	82.5	Power Factor	61	Line-line Res. @ 25°C	14.7 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		79°C	
S.F. Amps			Temp. Rise @ S.F. Load		91°C	
			Locked-rotor Power Factor		46	
			Rotor inertia		0.232 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	40	52	61	68	72	65
Efficiency	67.3	78.2	81.7	82.5	82.1	81	82.3
Speed	1194	1188	1182	1175	1167	1159	1170
Line amperes	1.38	1.48	1.65	1.86	2.11	2.4	2.01

ABB Motors and Mechanical Inc.

WINDING # 35WGG187

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1170 RPM 460 V 3532M

TORQUES (LB-FT): PO=18.8 PU=10.3 LR=12 LRA=12.4





