

ABB BALDOR RELIANCE III

Customer information packet

CEWDNM3545

1HP, 3450RPM, 3PH, 60HZ, 56C, 3516M, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	2.600 A @ 230.0 V 2.800 A @ 208.0 V 1.300 A @ 460.0 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	S
Type	AC
Mech. spec.	35T964
Base	
Status	PRD/A
Elec. spec.	35WGR933
Layout	35LYT964
Eff. date	11-06-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	02-12-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.06 IN
Power Factor	88
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor



Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1669L											
CAT.NO.	CEWDNM3545										
SPEC.	35T964R933G2										
HP	1 20:1CT,20:1VT,1.00SF										
VOLTS	230/460										
AMP	2.6/1.3										
RPM	3450										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.25		CODE	L	DES	B		CLASS	F		
NEMA-NOM-EFF	82.5		PF	88							
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TENV		SN								
BLANK	SFA 3.2/1.6										

AC Induction Motor Performance Data

Record # 8818

Typical performance - not guaranteed values

Winding: 35WGR933-R001			Type: 3516M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		1.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.6/1.3	Breakdown Torque		7.5 LB-FT		
R.P.M.		3450	Pull-up Torque		4.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		5.6 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		12.4 A
Service Factor (S.F.)		1.25		No-load Current		0.63 A	
NEMA Nom. Eff.		82.5	Power Factor	88	Line-line Res. @ 25°C		15.129 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		80°C	
S.F. Amps		3.2/1.6		Temp. Rise @ S.F. Load		108°C	
				Locked-rotor Power Factor		56	
				Rotor inertia		0.0443 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	69	82	88	91	93	91
Efficiency	71.6	80.5	83.1	83.6	82.7	81.3	82.7
Speed	3560	3529	3494	3462	3423	3378	3423
Line amperes	0.7	0.85	1.04	1.28	1.58	1.86	1.58

ABB Motors and Mechanical Inc.

WINDING # 35WGR933

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT): PO=7.5 PU=4.2 LR=5.6 LRA=12.4





